#### City of Lawrence Transportation Commission Study Session August 15, 2018 Minutes

MEMBERS PRESENT:	Charlie Bryan, Mark Hurt, Steve Evans, John Ziegelmeyer, Donna Hultine, Kathryn Schartz
MEMBERS ABSENT:	Erin Paden, Ron May, Michele Dillon
STAFF PRESENT:	David Cronin, Public Works Department Zach Baker, Public Works Department Amanda Sahin, Public Works Department Jessica Mortinger, MPO
PUBLIC PRESENT:	N/A

A complete video recording of the meeting is available on the City's website at <u>https://lawrenceks.org/boards/transportation-commission/</u>

#### **1. Mixed Traffic Facilities**

Dave Cronin presented on mixed traffic facilities from the Small Town and Rural Design Guide.

	TO
Name	Initials
Members Charlie Bryan	
Lawrence DGCO Health Dept. Representative	CWB
Donna Hultine	
University of Kansas	-
Kathryn Schartz	Vee
Multi-Modal Transportation / Planning Eng Rep	1557
Mark Hurt	121
PTAC representative	MAD
Michele Dillon	
Pedestrian Representative	
Steve Evans	253
Planning/Engineering Field Representative	505
Erin Paden	
Bicyclist Representative	
John Ziegelmeyer	Ch 1
Local Business Representative	Car.
Ron May	
USD-497	
City Staff	<b>*</b>
David Cronin	
	e e
Jessica Mortinger Senior Transportation Planner	
Ashley Meyer Transportation Diagnor	
	1
Amanda Sahin Transportation Engineer	
Transportation Engineer	04
Zach Baker	-700
Project Engineer	
Jon Marburger	
Project Engineer	

Transportation Commission Study Session August 15, 2018 Public Sign In Sheet		
Name	Contact Info	
NA LAAI	(ph)	
Whichme Minnon	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	
	(ph)	
	(e-mail)	



# MIXED TRAFFIC FACILITIES



Facilities for Walking and Biking

# Mixed Traffic Facility Types

Facilities are shared between motorists, bicycles and sometimes pedestrians. Most appropriate on roads with low volume/low speed.

Three types of facilities:

- Yield Roadway
- ➢ Bicycle Boulevard

Advisory Shoulder (variations include Advisory Bike Lanes or Dashed Bike Lanes)

## Types of Mixed Traffic Facilities Yield Roadway

Designed to serve pedestrians, bicyclists, and motor vehicle traffic in the same slow-speed travel area. Yield roadways serve bidirectional motor vehicle traffic without lane markings in the roadway travel area.

### Common elements include:

- Narrow paved two-way travel lane (16'-20')
- No marked centerline
- Signage to warn users of pedestrians on roadway or two way traffic
- No markings on roadway
- Roadside parking, if desired, constructed out of contrasting material

#### >Benefits:

- Narrow road slows speeds
- Connects local residential roads to destinations on the network
- Limits impermeable surface and minimizes stormwater runoff

## Types of Mixed Traffic Facilities Yield Roadway



## Types of Mixed Traffic Facilities Yield Roadway









Low-stress shared roadway bicycle facility, designed to offer priority for bicyclists operating within a roadway shared with motor vehicles.

Common elements include:

- Signs and pavement marking
- Speed management
- Volume management
- Crossing treatments

### > Benefits:

- Increases comfort for people bicycling
- Slows traffic
- Reduces cut-through traffic
- Connects local residential roads to commercial corridors
- Less visually impactful then separated facilities



?

### Signs and Pavement Marking:

- Pavement markings identify the route as a bicycle boulevard and can guide users through jogs.
- Signage should brand the route and provide wayfinding

### ➢Speed Management

- Raised crosswalks, speed humps, center islands, edge islands, chicanes
- Reduction in speed limits , 25 mph max

#### Volume Management

• Forced turn at intersection, partial closures, diagonal diverters, median diverters

#### Crossing Treatments:

- Reduce delay at minor street crossings flip stop signs, traffic circles
- Improve safety at major street crossings supplemental signs and markings, curb extensions, refuge islands, beacons, bike box



## Types of Mixed Traffic Facilities Advisory Shoulder

- New treatment type and requires an approved Request to Experiment by FHWA (called "dashed bicycle lanes") – 5 existing experiments nationwide
- Create usable shoulders for bicyclists on a roadway that is otherwise too narrow to accommodate one. The shoulder is delineated by pavement marking and optional pavement color. Motorists may only enter the shoulder when no bicyclists are present and must overtake these users with caution due to potential oncoming traffic.
- Common elements include:
  - 4'-6' space on each side for pedestrians/bicycles
  - Two way center travel lane, 13.5'-16' width recommended (FHWA recommends 16')
  - Work best on road segments without frequent stop controlled intersections
- > Benefits:
  - Increase predictability and clarifies desired lateral position between people bicycling or walking and people driving a narrow roadway
  - Supports the natural environment through reduced paved surfaces
  - Decreases vehicle speeds due to limited space to pass other vehicles

## Types of Mixed Traffic Facilities Advisory Shoulder

### Context



Speed and Volume

Most appropriate on streets with low to moderate volumes and moderate speed motor vehicles. (+)



#### Network

Applies to constrained connections between built up areas.

#### ?



#### Land Use

For use outside, between, and within built up areas with bicycle and pedestrian demand and limited available paved roadway surfaces.

### Types of Mixed Traffic Facilities Advisory Shoulder



# Mixed Traffic Facility Types

References:

Small Town and Rural Design Guide <a href="http://ruraldesignguide.com/mixed-traffic">http://ruraldesignguide.com/mixed-traffic</a>

NACTO Urban Bikeway Design Guide <u>https://nacto.org/publication/urban-bikeway-design-guide/</u>

FHWA Bicycle Facilities and the MUTCD – Dashed Bicycle Lanes <u>https://www.fhwa.dot.gov/environment/bicycle\_pedestrian/guidance/mutcd/dashed\_bike\_lanes.cfm</u>