



# County Road 98 Bike and Safety Improvements Phase 2



# County Road 98

## Yolo County General Plan and Master Plan Designations

### Functional Classification:

*Major Two-Lane County Road*

### Yolo County Bikeway Master Plan:

*Class 2 Bike Lane*

# Phase 1 Project Corridor



County Road 29

County Road 27

County Road  
25A

February 7, 2017

CR 98 Bike and Safety Improvements Phase 2

# Phase 1 Project



1. **Widen/improve shoulders to provide:**
  - Provide safer access for wide and slow farm vehicles
  - Improved visibility for vehicles entering County Road 98
  - Improved clear recovery zones
  - Areas for safer bicycle travel
  
2. **Modify intersections to improve operations**

# Phase 1 Project Results

**Three years “prior”** to the Phase 1 project there were 17 non-intersection accidents along the corridor.

**Three years “after”** the Phase 1 project the non-intersection accidents dropped to 5, a 70% reduction

Non-intersection **Injuries** dropped from 16 to 1 a 94% reduction

**Intersection** accidents continued to increase, which is why the Phase 2 project has special emphasis on intersection improvements.

## Project Corridor Intersections



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# County Road 98

The Primary issues to be addressed relate to **Bicycle, Pedestrian and Motor Vehicle safety!**

The overall project includes roadway and shoulder improvements to **accommodate bicycle and farm equipment activity**; as well as **improved access and clear recovery zones**.

**Our effort** (Omni-Means), centers on the **intersections and coordinating intersection improvements** with existing and planned corridor bicycle and pedestrian improvements.

# Phase 2 Project



The Main Objective of the “our” portion of the Phase 2 project is to identify and develop intersection **“safety”** and capacity Improvements for County Road 98 and:

1. Hutchinson Drive
2. County Road 32, and
3. County Road 31



# County Road 98

The Alternatives we will be considering for each intersection include:

- 1. Traffic Signalization**
- 2. Roundabouts**

# Improvement Options

## Traffic Signals

### Pros

- May improve vehicular safety
- Enhances pedestrian & bicycle safety
- Minimizes construction traffic control

### Cons

- Can cause excessive delay
- May increase accident frequency
- Can cause traffic route diversion

# Improvement Options

## Roundabouts

### Pros

- Improve intersection vehicular safety
- Enhance pedestrian & bicycle safety
- Can/will reduce operating speeds
- Minimizes traffic delays
- Environmentally friendly (GHG emissions)

### Cons

- Complex design process
- Complex construction and traffic handling
- May Require More Right-of-Way

# Geometric Considerations

A thick red horizontal bar with a white dashed line running through its center, spanning the width of the slide.

**The following design elements will  
be considered:**

Capacity and Operations

Bikes and Pedestrians

Way Finding

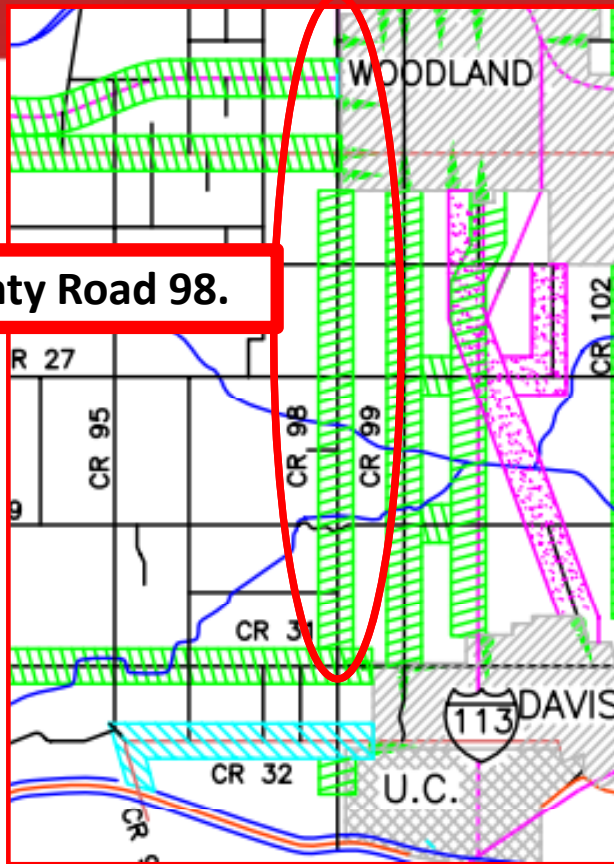
Fast Paths

Large Truck and Farm Equipment

Right of Way

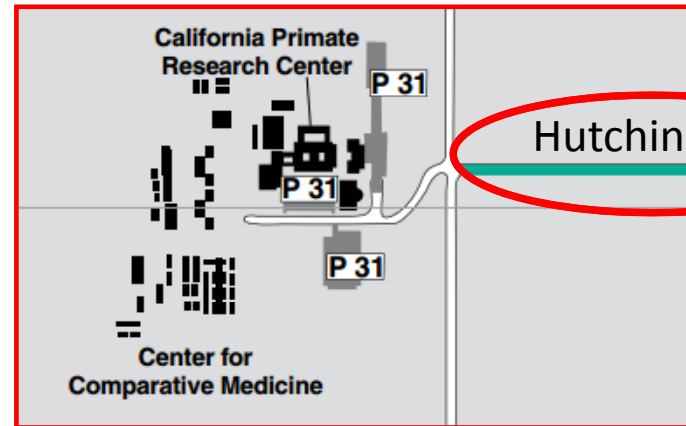
# Bicycle Master Plans

## Yolo County Bike Master Plan



County Road 98.

## City of Davis Bike Master Plan



Hutchinson Dr.

*Class 2 – Bike Lanes*

February 7, 2017

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# Bicycle Accommodation



- **Objectives:**
  - **Minimize exposure to conflicts**
  - **Reduce speeds at conflict points**
  - **Communicate presence of cyclists and routing**

# Minimize Exposure to Conflicts



## Design objectives:

- Minimize transition and mixing zones
- Simplify turning movements
- Continuity in routing of various experience levels
- Conform to existing with provisions for future planned facilities

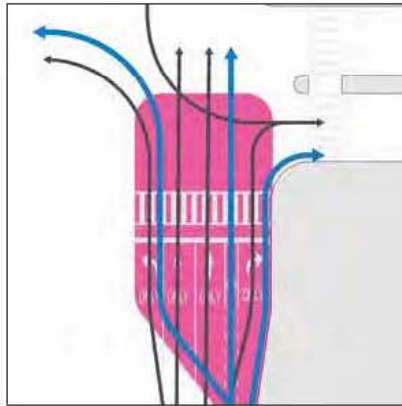
# Minimize Exposure to Conflicts



## EXHIBIT 4A: COMPARISON OF BICYCLIST EXPOSURE AT INTERSECTIONS

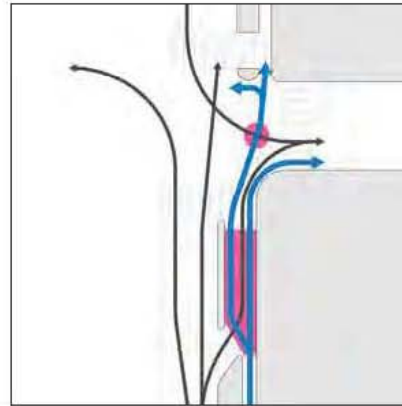
The diagrams on this page provide a comparison of the levels of exposure associated with various types of intersection designs.

Exposure Level:  
High



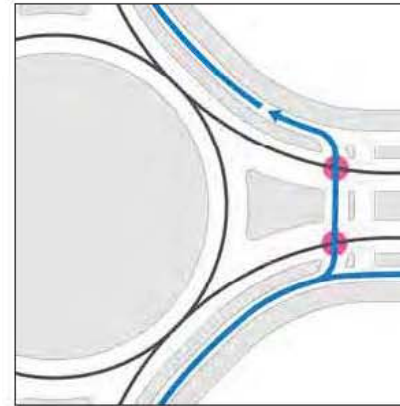
**CONVENTIONAL BIKE LANES AND SHARED LANES**

Exposure Level:  
High to Medium



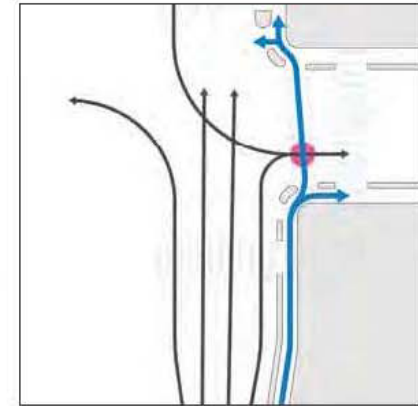
**SEPARATED BIKE LANES WITH MIXING ZONES**

Exposure Level:  
Medium to Low



**SEPARATED BIKE LANES THROUGH ROUNDABOUTS**

Exposure Level:  
Low



**PROTECTED INTERSECTIONS**

*Source: MassDOT Separated Bike Lane Planning & Design Guide*



# Continuity in Routing



- Acknowledgement of various cyclist skill levels.
- Connection to existing pedestrian and bike facilities
- Provisions for connection to Planned facilities

# Communicate Presence of Cyclists and Routing



## Signing and Striping

- Use of sharrows where bikes will occupy the lane
- Green surfacing to highlight cyclist's presence in transitions areas.
- Use guide signing and regulatory signing to strengthen vehicle lane discipline.

# Open House

## Please Proceed to the Wall Map of the Study Corridor:

1. Please note on the map, or on the comment cards, any issues and or locations you would like this project to address; and,
2. We will be available to respond to any questions you may have.