

# ATFAB

## Project Presentation

### APRIL 2, 2018



Colorado State University

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**FACILITIES**  
MANAGEMENT

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AT COLORADO STATE UNIVERSITY

# Projects

1. East-West Bikeway
2. University Avenue Bikeway
3. Intersection Improvements - Plum Street and Meridian Avenue



# *Priority #2*

East-West Bikeway  
Project #2 & #17



Colorado State University



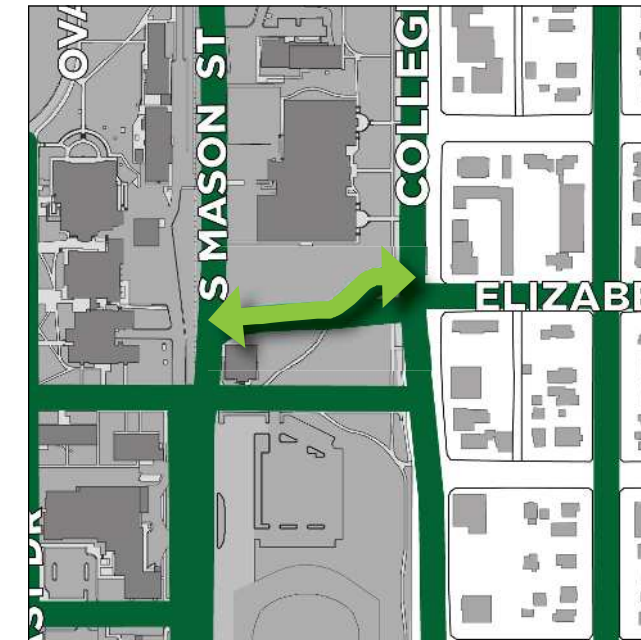


**Existing Condition**  
-6' sidewalk

## 2. East Elizabeth Street - University Avenue Path

Limits: Elizabeth Street and University Avenue

**Provides convenient access from major campus entry point**

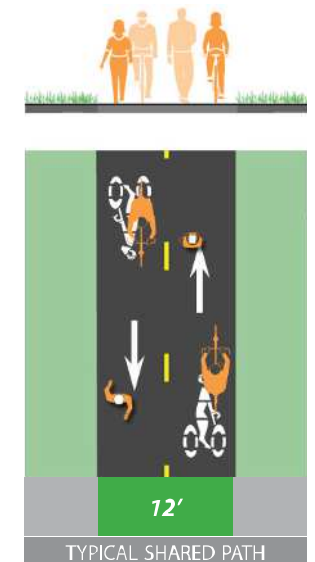


### RECOMMENDATION

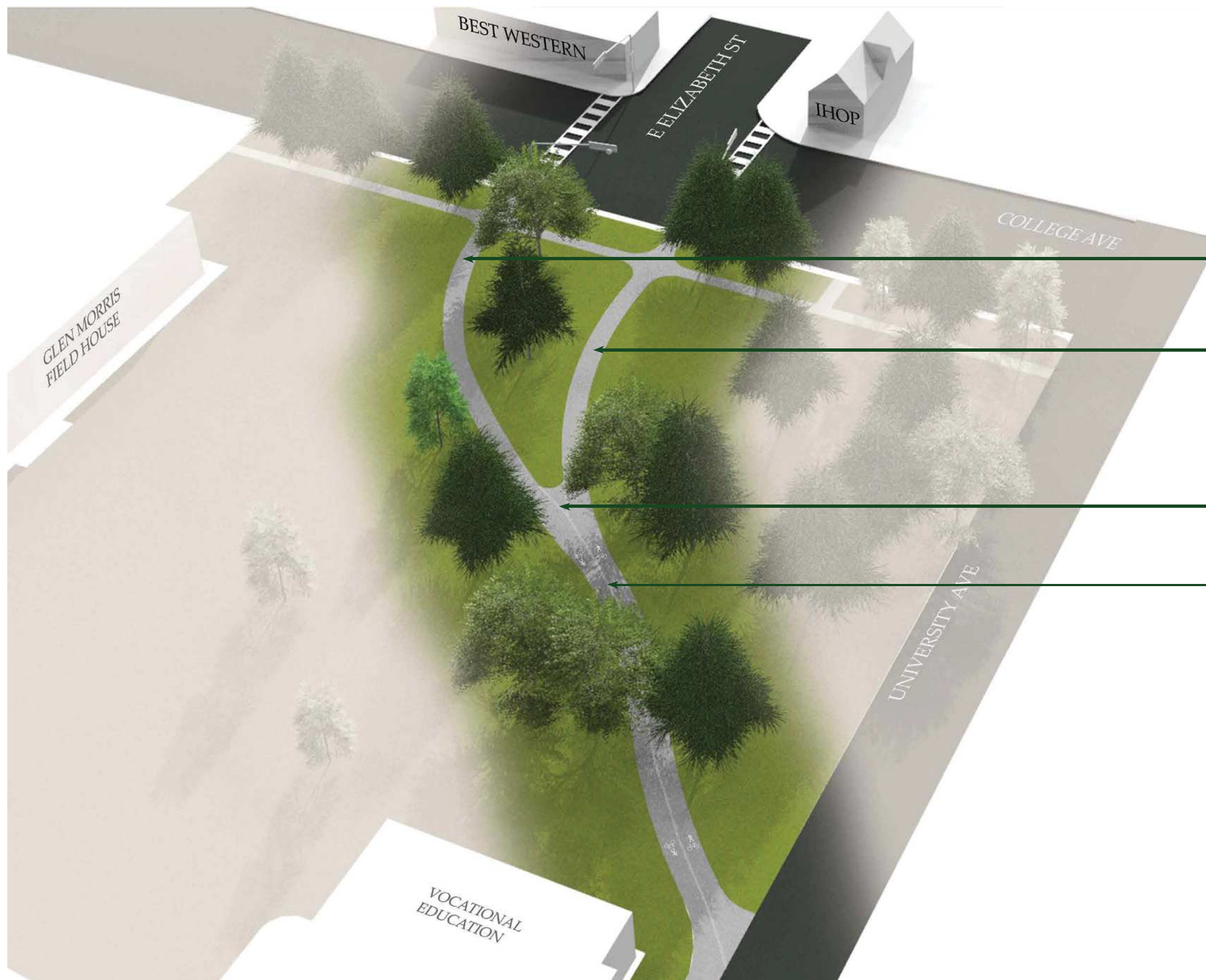
- Remove existing 6' sidewalk
- Construct new 12' shared path from Elizabeth Street to the Mason Trail
- Split the path approaching Elizabeth Street to line up with eastbound and westbound bicycle lanes on Elizabeth Street
- Centerline and markings provided to reduce conflicts

### EXISTING CONDITIONS

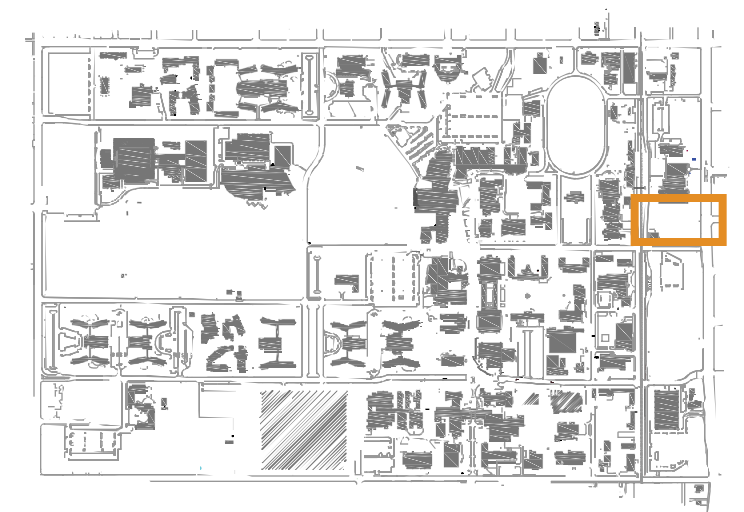
- Existing 8' sidewalk from College and Elizabeth intersection to University Avenue that is too narrow for bicycle and pedestrian traffic
- the path aligns with westbound bike lane resulting in contraflow westbound bicycle riding or diagonal intersection crossings
- Important connection to neighborhoods on the east side of campus via Elizabeth Street bike lanes







- ❑ Maintain the existing 6' sidewalk
- ❑ Split the path approaching Elizabeth Street to line up with eastbound and westbound bicycle lanes on Elizabeth Street.
- ❑ Centerline and markings provided to reduce conflicts
- ❑ Widen the existing 6' sidewalk to 12'







**Existing Condition**



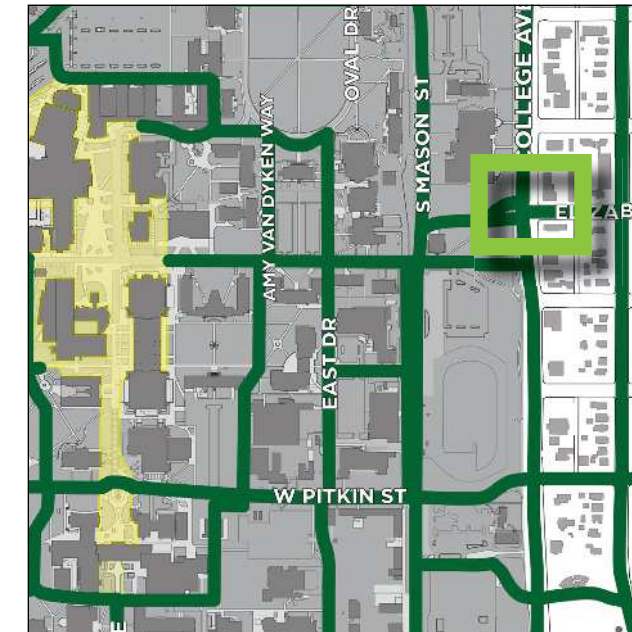




**Existing Condition**

## 17. College Avenue & Elizabeth Street Intersection

**Decreases opportunity for bicycle/automobile/pedestrian conflicts**



### RECOMMENDATION

- Improve signal timing by increasing crossing time and shortening cycle length
- Add second curb ramp for bicycles that aligns with new crosswalk on south leg of College Avenue at Elizabeth Street
- Add bicycle signals to notify bicyclists of appropriate crossing phase

### EXISTING CONDITIONS

- Current intersection configurations leads to myriad, unpredictable approaches to crossing the intersection
- Many bicycle/automobile/pedestrian conflict points created through variety of movements



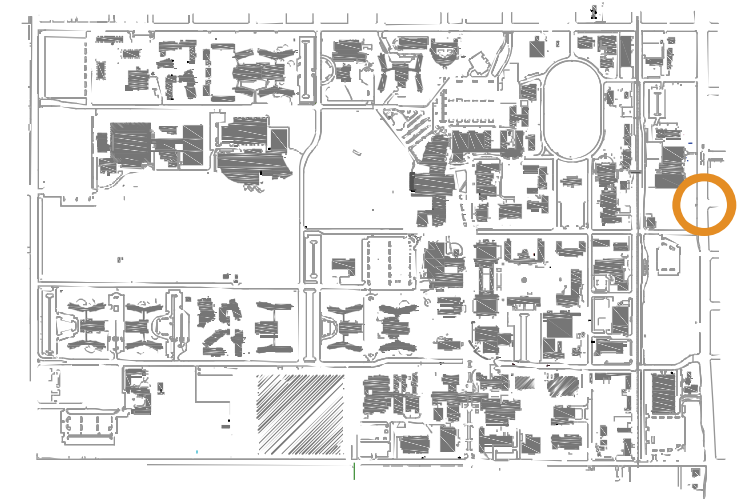




□ Improve signal timing by increasing crossing time and shortening cycle length.

□ Add second curb ramp for bicycles that aligns with new crosswalk on south leg of College Avenue at Elizabeth Street.

□ Add bicycle signals to notify bicyclists of appropriate crossing phase.







Existing Condition





# *Priority #3*

## University Avenue Bikeway Project #8



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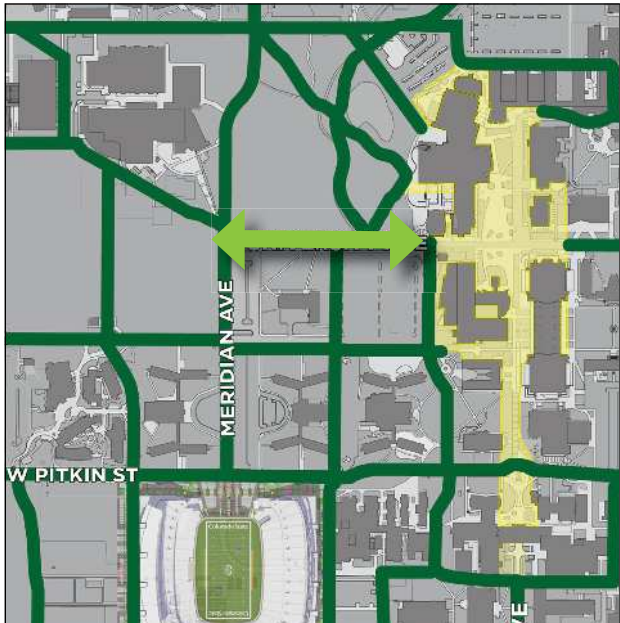


Existing Condition

## 8. University Avenue

Limits: Meridian Avenue and Dismount Zone

Defines space for bicyclists and pedestrians on former roadway

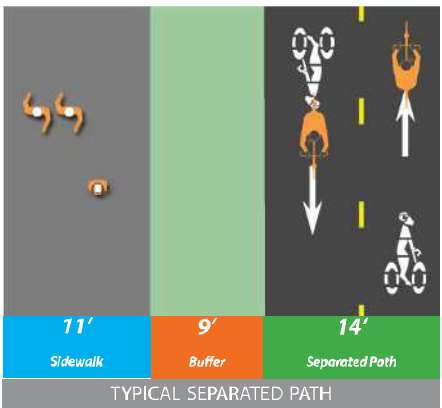


### RECOMMENDATION

- In near term, define pedestrian and bicycle spaces on existing roadway by striping two-way bike lane in center of street and pedestrian lanes on edges of street adjacent to sidewalk
- In long term, construct a separated bicycle and pedestrian pathway utilizing the existing roadway space

Construction Cost Estimate (near-term): \$20,000

Construction Cost Estimate (long-term): \$1,001,000

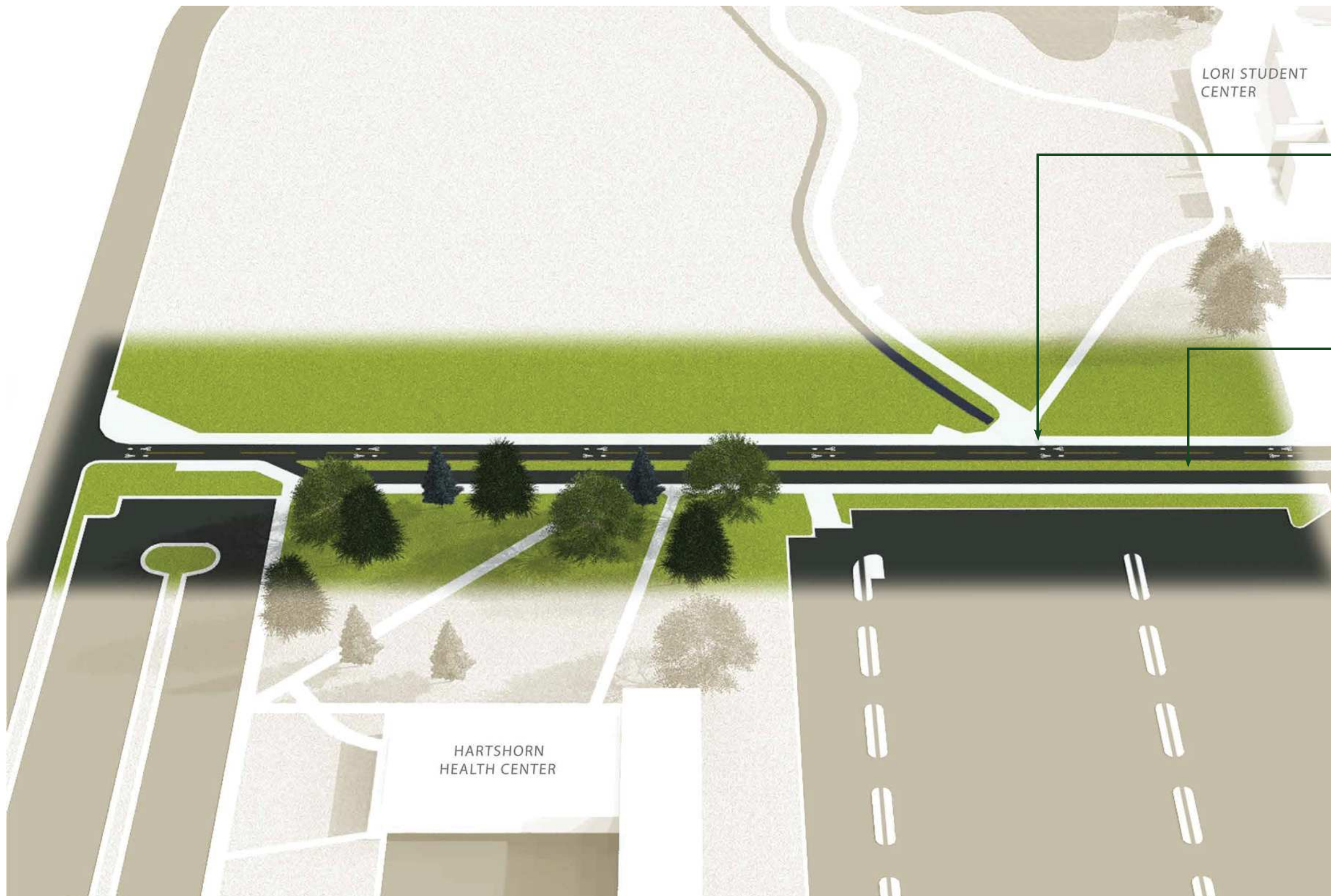


### EXISTING CONDITIONS

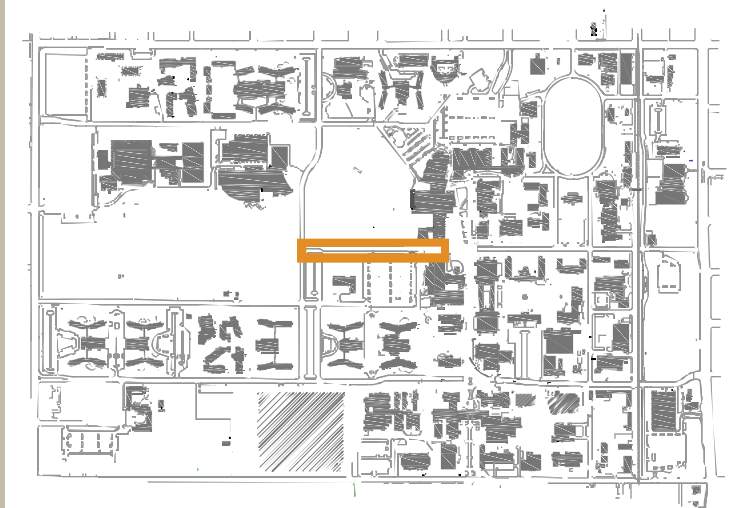
- Existing roadway where automobile use is prohibited
- There is minimal striping on the roadway
- Bicycles and pedestrians do not adhere to traffic pattern indicated by current striping







- In near term, define pedestrian and bicycle spaces on existing roadway by striping two-way bike lane in center of street and pedestrian lanes on edges of street adjacent to sidewalk.
- In long term, construct a separate bicycle and pedestrian pathway utilizing the existing roadway space.







# University Avenue Bikeway Project #8



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**Roundabout Design Alternatives**







**Multi-purpose space needed**



# *Priority #5*

Intersection Improvements  
Plum Street & Meridian Avenue  
Project #19



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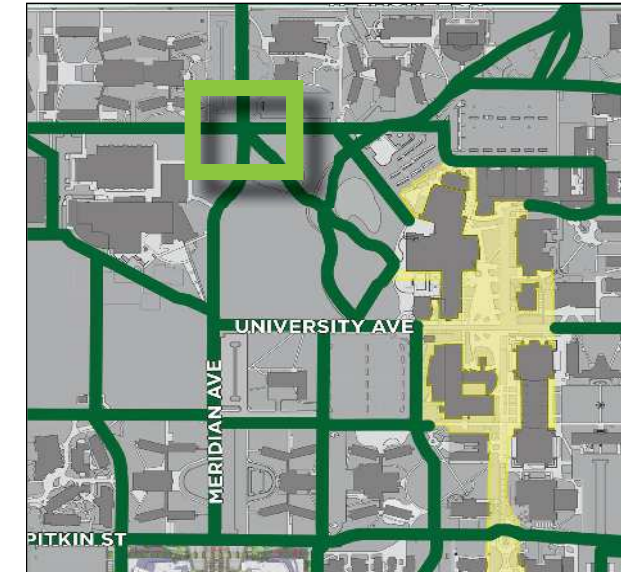
**View looking west**



**View looking south**

## 19. Plum Street & Meridian Avenue Intersection

**Calms traffic and provides a safer crossing for all road users**



### RECOMMENDATION

- Construct a raised intersection to create a flush crossing for bicycles and pedestrians and to slow vehicular movements
- Add mini traffic circle to deter diagonal movements through the intersection



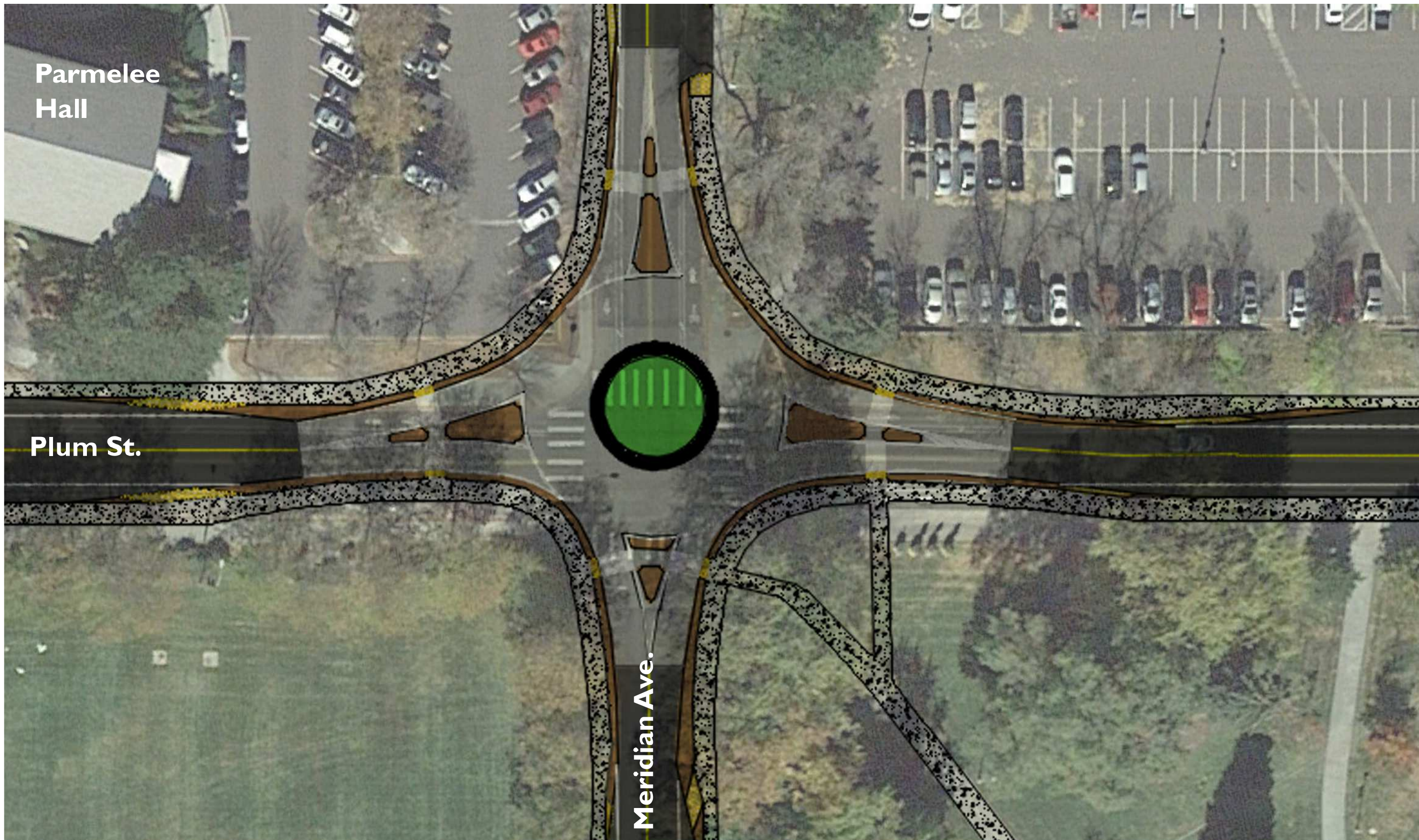
*Raised intersection example from Cambridge, MA*

### EXISTING CONDITIONS

- Bicycles and pedestrians currently cross intersection in many different routes, including diagonally.
- Intersection includes two streets and the terminus of a shared path







**Roundabout Design Concept**