



US 6 & Heritage Road Interchange

Open House #2, February 24, 2021



City of
Golden



MULLER
ENGINEERING COMPANY

PROJECT OVERVIEW

Dan Hartman – City of Golden

TONIGHT'S PRESENTERS

- Dan Hartman – Golden Public Works Director
- Anne Beierle – Golden Public Works Deputy Director
- Joe Puhr – Golden City Engineer
- Nancy Lambertson – Muller Engineering
- Matt Andrews – Muller Engineering
- Jay Renkens - MIG
- Paul Kuhn – MIG
- Kyra Czerwinski - MIG

AGENDA

- Project Background
- Alternatives Development
- Community Feedback

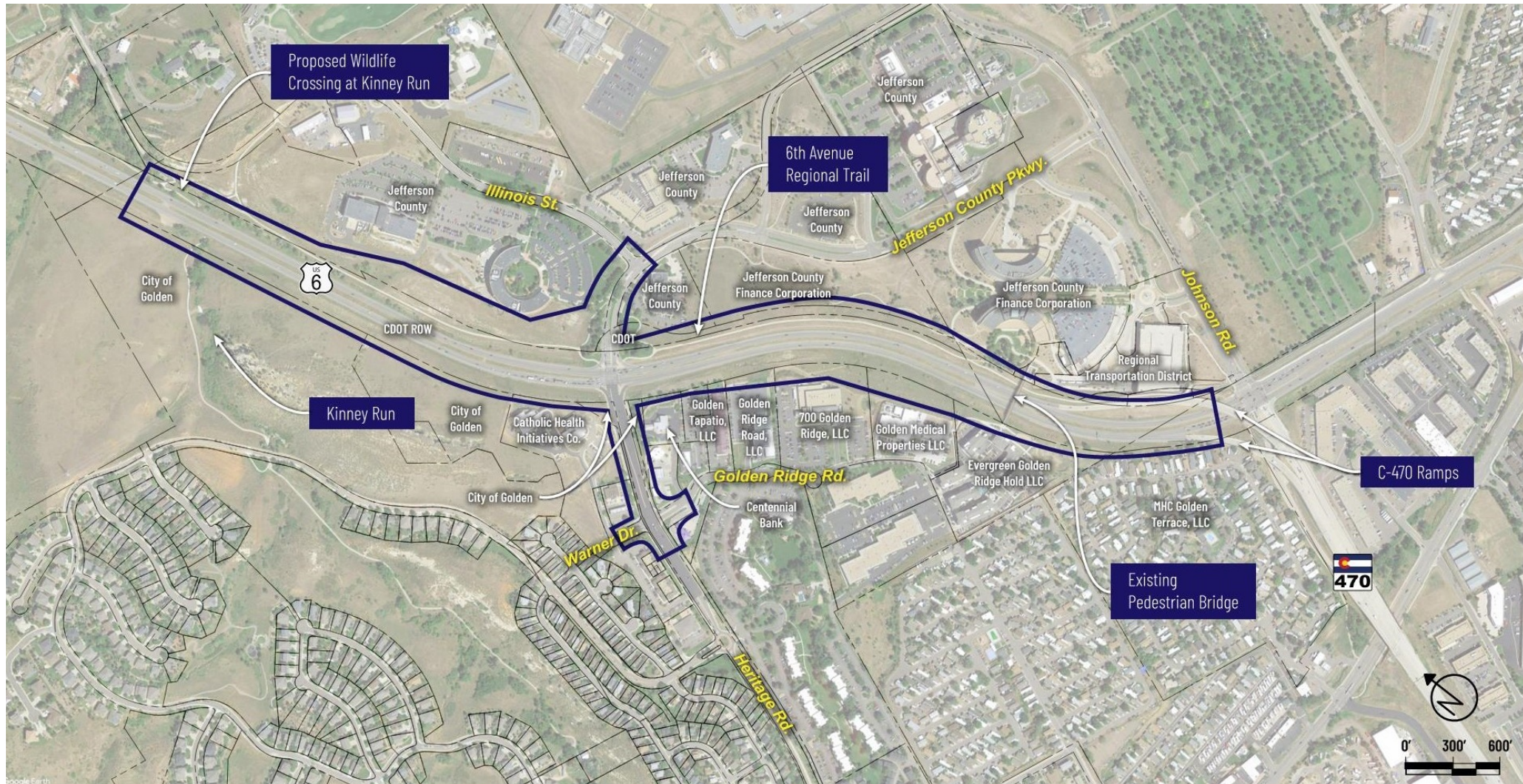
PROJECT BACKGROUND



City of
Golden

Golden's Plan **HIGHWAY 6 & 93 CORRIDOR** Updated Jan. 2013

PROJECT LIMITS

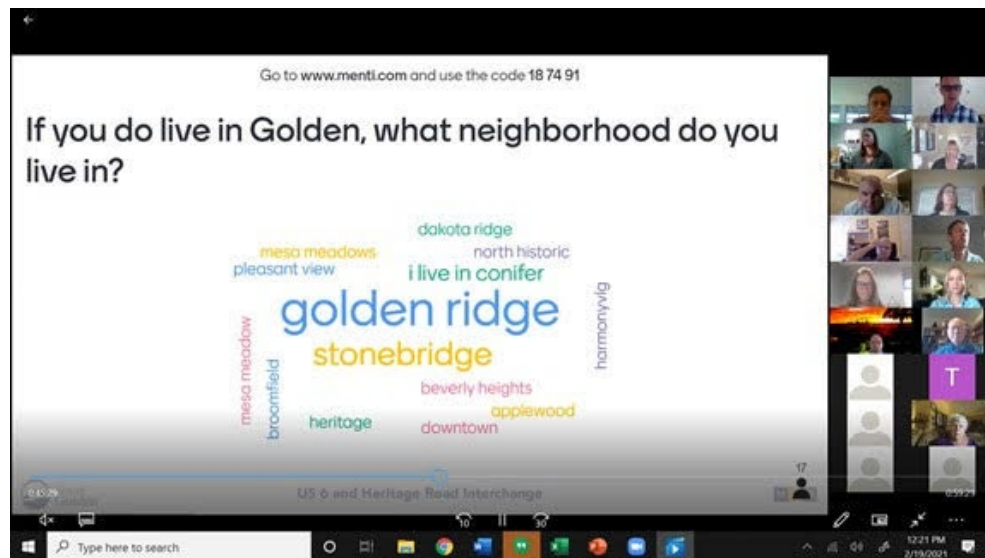


JULY 29, 2020 OPEN HOUSE THEMES

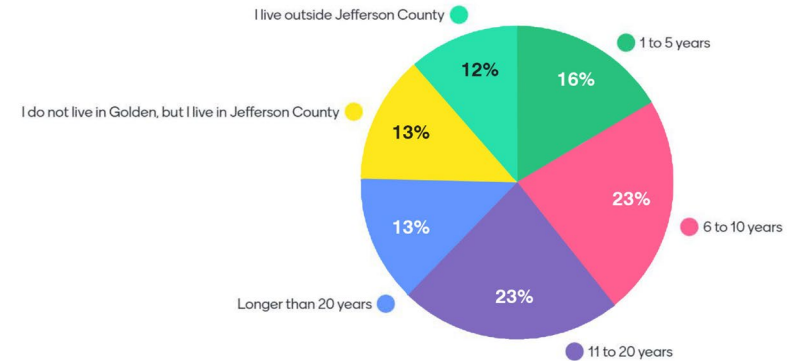
Anne Beierle – City of Golden

Who came to the meeting

- Most attendees have lived in Golden between 6 and 20 years
- They represented neighborhoods from across the city



How long have you lived in Golden?



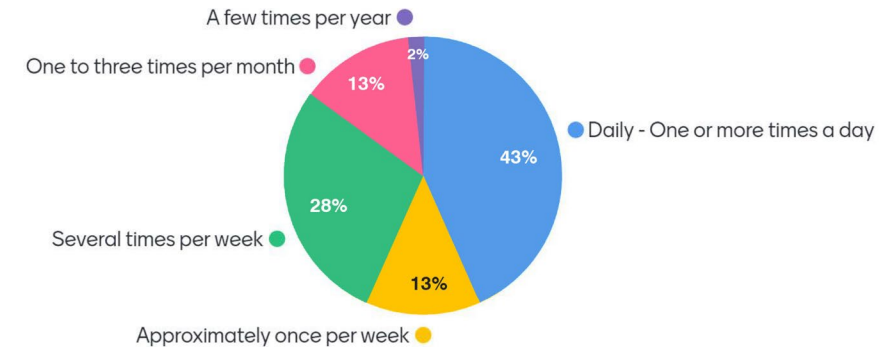
If you do live in Golden, what neighborhood do you live in?



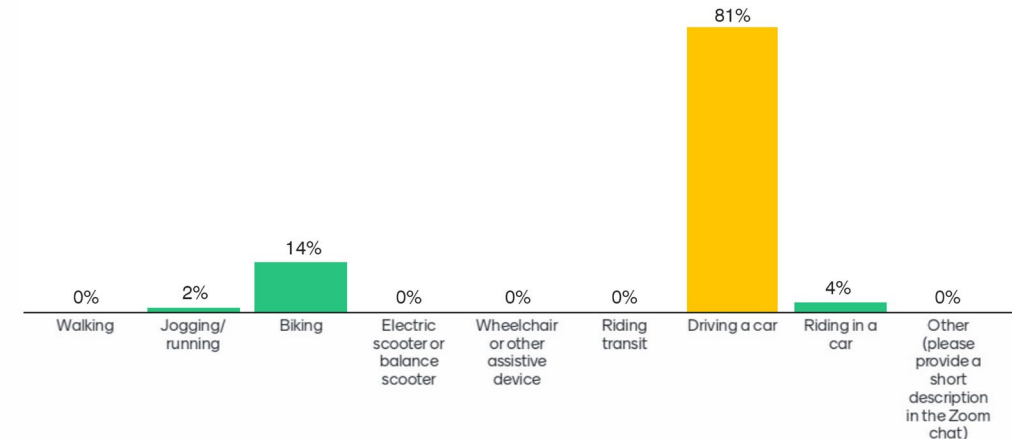
Use of the Interchange

- Attendees were frequent users of the interchange (just under 50% daily users)
- The majority drive the interchange (81%), but bicyclist were well represented (14%)

How often do you pass through the US 6 and Golden Interchange?



How do you move through the US 6 and Heritage Road Interchange most often?



US 6 and Heritage Road Interchange

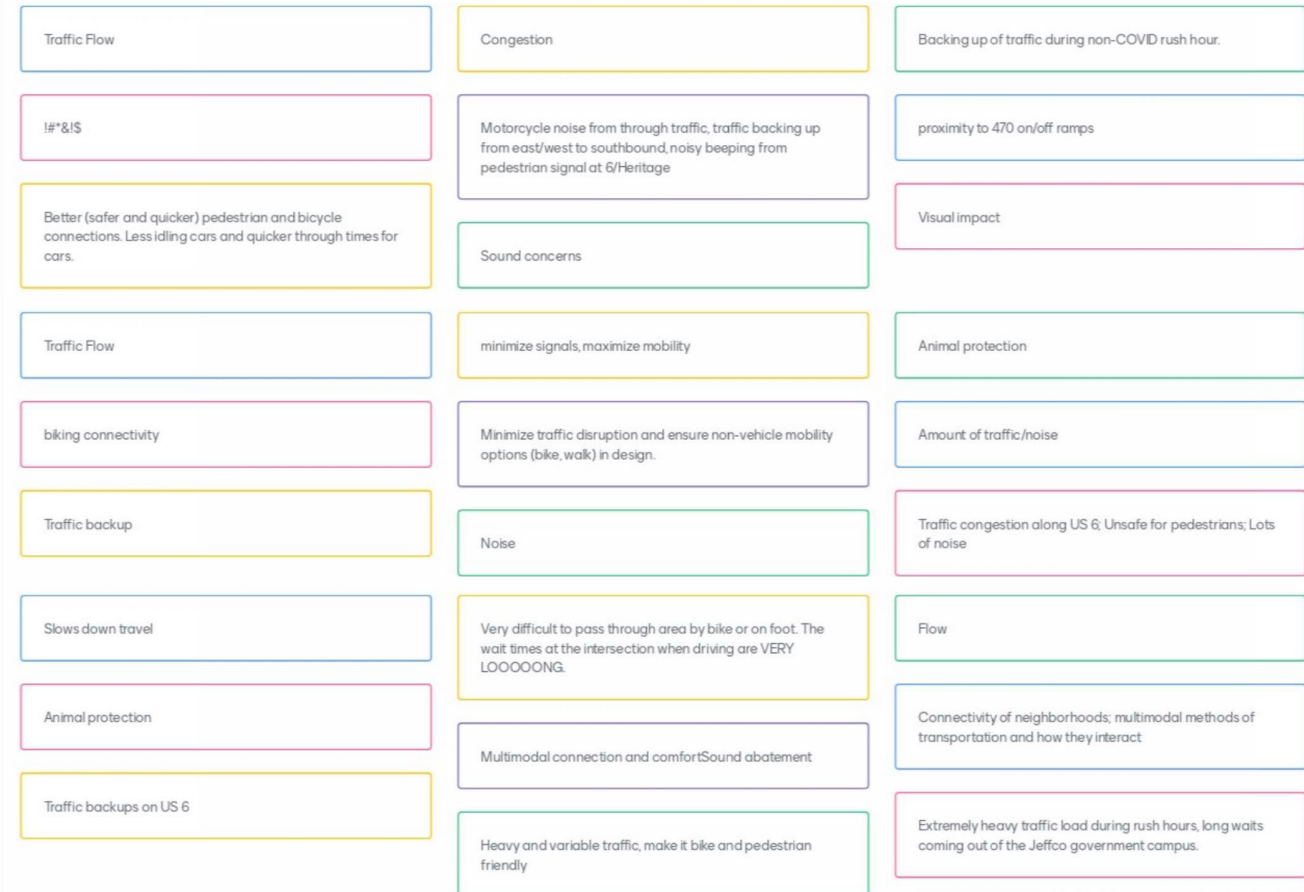
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Issues and Challenges

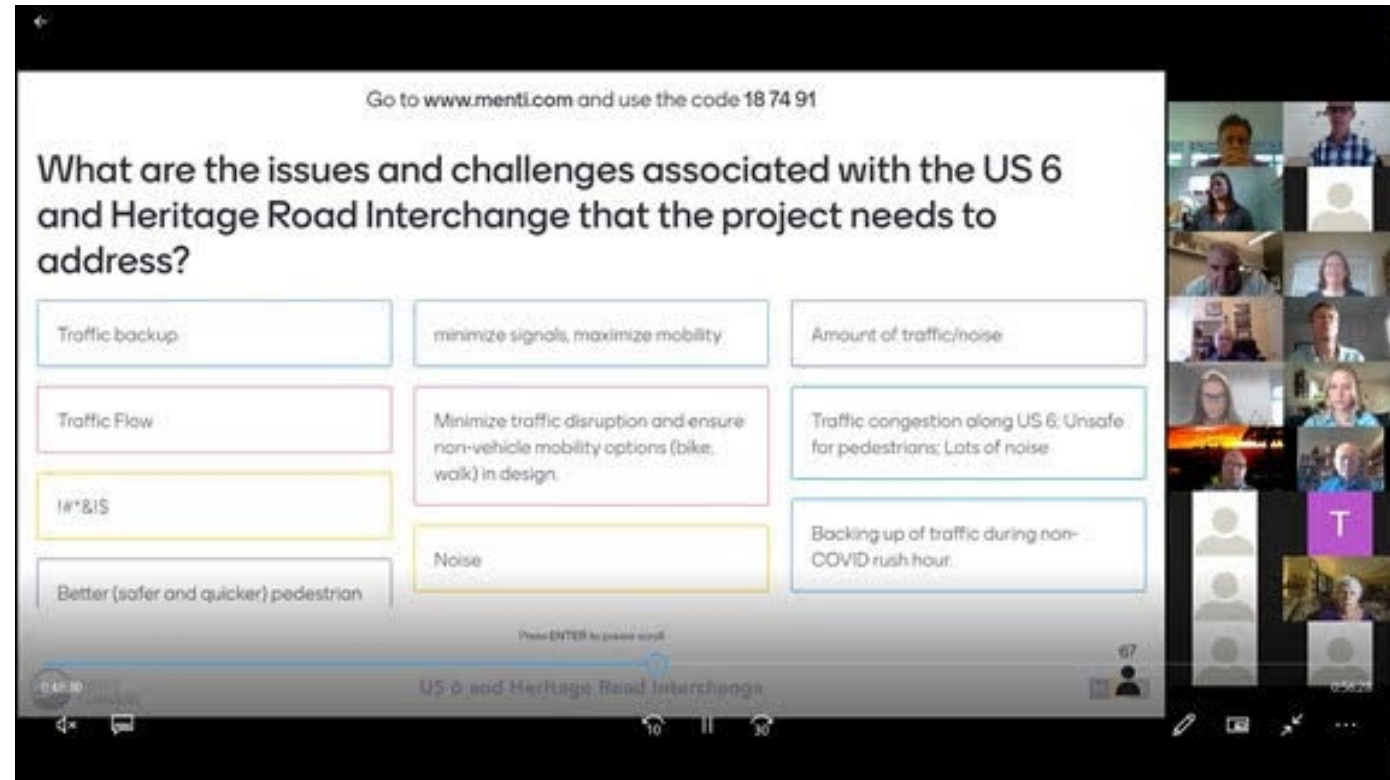
- When asked about potential issues and challenges, the most common themes were:
 - Very heavy traffic. Would like to improve traffic flow
 - Traffic backups or slowdowns due to heavy traffic, especially at intersections
 - Heavy rush hour traffic volume, long traffic signal cycles, and difficulty in making left turns (e.g., at Johnson Road)
 - Safety for all modes of travel
 - Minimize disruption during construction

What are the issues and challenges associated with the US 6 and Heritage Road Interchange that the project needs to address?



Issues and Challenges

- When asked about potential issues and challenges, the most common themes were:
 - Corridor unsafe or unfriendly to bicyclist and pedestrians and difficult to navigate with long waits at traffic signals.
 - Would like a bike/pedestrian friendly environment with better street crossings, and continuous bike lanes
 - Multimodal connectivity to area destinations
 - Find ways to protect animals
 - Minimize traffic disruption and enhance multimodal options



Measuring Success

- In one to three words, describe how you would deem the project a success?

- Smoother/safer traffic flow
- Community safety
- Minimize inconvenience
- Improve pedestrian safety
- Safety, bike/ped ease of use
- Reduce traffic
- Connectivity for pedestrians
- Access and comfort for all
- Congestion reduction
- Not a community barrier
- Grade separation

In one to three words, what is the most important thing that this project must accomplish to be deemed a success?

Crossing, continuous travel	Fluid movement	ease of use
Connect parts of Golden	aesthetics	Move traffic efficiently
Noise reduction	build it	Improve overall mobility
Minimal impacts during construction	Smooth traffic flow	Quicker throughput
user experience	Improve pedestrian safety	Access and comfort for all
Connectivity for pedestrians	Multimodal uses	Not happen?
Congestion Reduction	Traffic flow safety	Quiet
grade separation	Community safety	Safety
Non stop through Golden on 6th	No traffic light	Improved pedestrian and vehicular movement
Noise mitigation	Quiet beauty functionality	Pedestrian and bike friendly, not a community barrier
Connect. Aesthetic. Capacity.	Improve safety.	minimize inconvenience

Priorities

- How would you prioritize the opportunities and goals for the project?
 - Reducing congestion and delays for cars and trucks (41)
 - Improving safety and comfort for bicyclists (36)
 - Improving safety and comfort for pedestrians (23)
 - Enhancing the general aesthetics (18)
 - Improving wildlife connectivity (13)
 - Create a gateway element (8)



Community Value Themes

- We value being a community that is walkable, bikeable, and accessible to all.
 - Make bike and pedestrian facilities high comfort
 - Reduce speeding of car
 - So many cars go west on Heritage from 6th Ave North. What about 10 years from now?
 - Make ped and bike crossing at lowest traffic volume on- and off-ramps.
 - Encourage through traffic to use the main highways and supplemental roads (e.g., 6, 470, Colfax) and discourage through traffic on Heritage.
 - Something similar to 19th Street. Meeting area for pedestrians/ cyclists while fast traffic runs underneath. Slower traffic on bridge to make it safe.



Community Value Themes

- We value being an active, healthy community that appreciates the outdoors and our connection to the natural environment.
 - Maximize Green Spaces and Tree Canopy
 - Co-exist with wildlife corridors
 - Designed to aggressively minimize traffic noise.
 - Spring flowers!!! Color!!
 - Native plants
 - Have lots of trees to keep noise down and add shade and keep views of mountains for those making local turns on and off and keep thru traffic below grade.



Community Value Themes

- We value safe, quiet, clean, well-maintained neighborhoods
 - Highway 6 contributes a lot of noise to the neighborhood
 - Don't make it feel like a bridge over a highway. Like 19th Street, make it a park with a highway under it.
 - Bike and pedestrian facilities that are easy to maintain
 - Keep traffic flowing to minimize pollution of start/stop
 - Clean and simple, landscaping on commercial side
 - Lower HWY 6 to minimize road noise



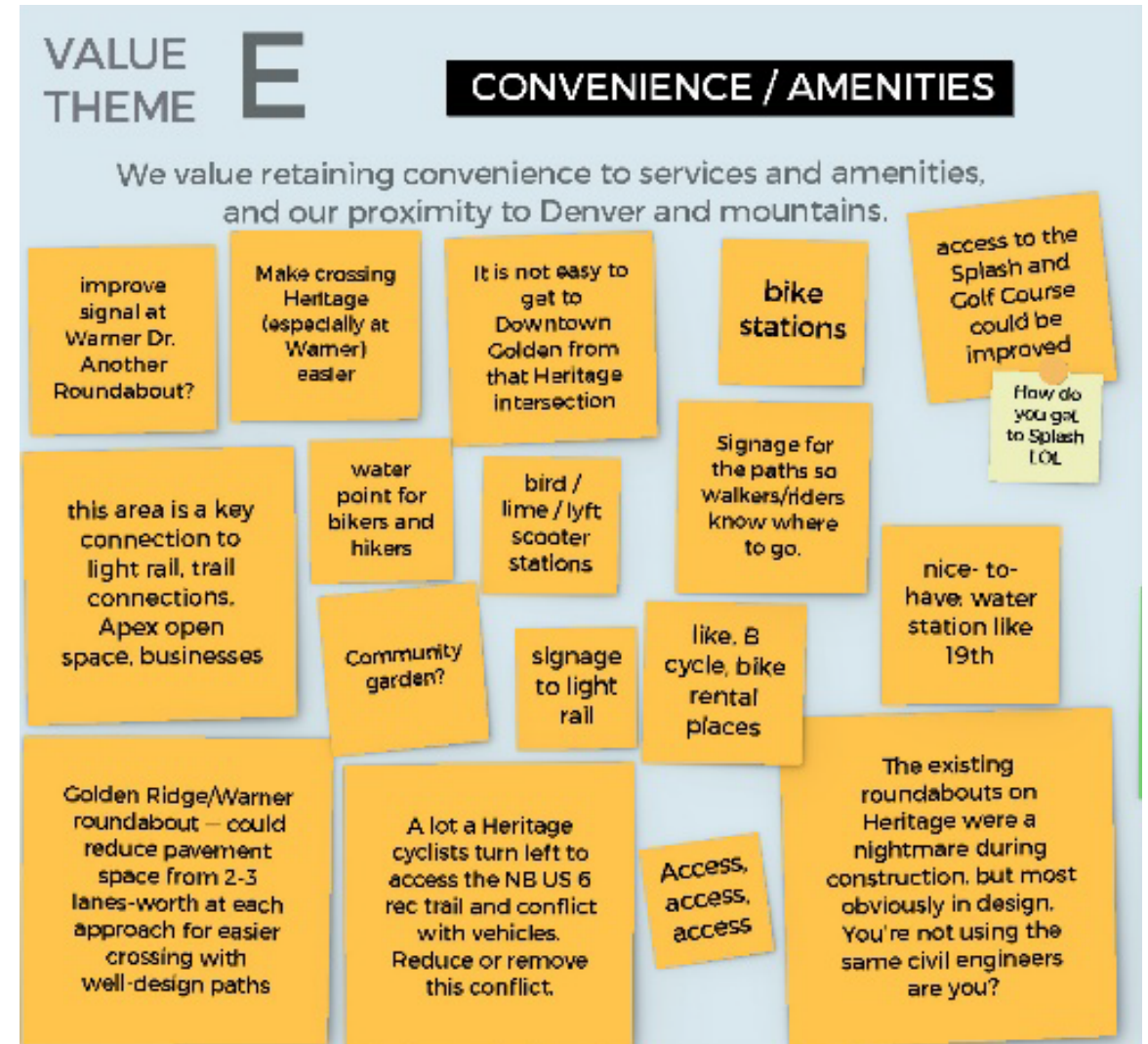
Community Value Themes

- We value supporting our local businesses and keeping a vibrant downtown for future generations
 - Weekend shuttle between JeffCo Station and downtown would be great, like fixed route FlexRide
 - I like the one Billboard that says FARMERS MARKET this Saturday. Very attractive.
 - Easy and convenient to get to heritage businesses
 - Make it easy for residents off Heritage to get downtown (cars, bikes)
 - You said it... connectivity
 - This could be a gateway to Jeffco government offices



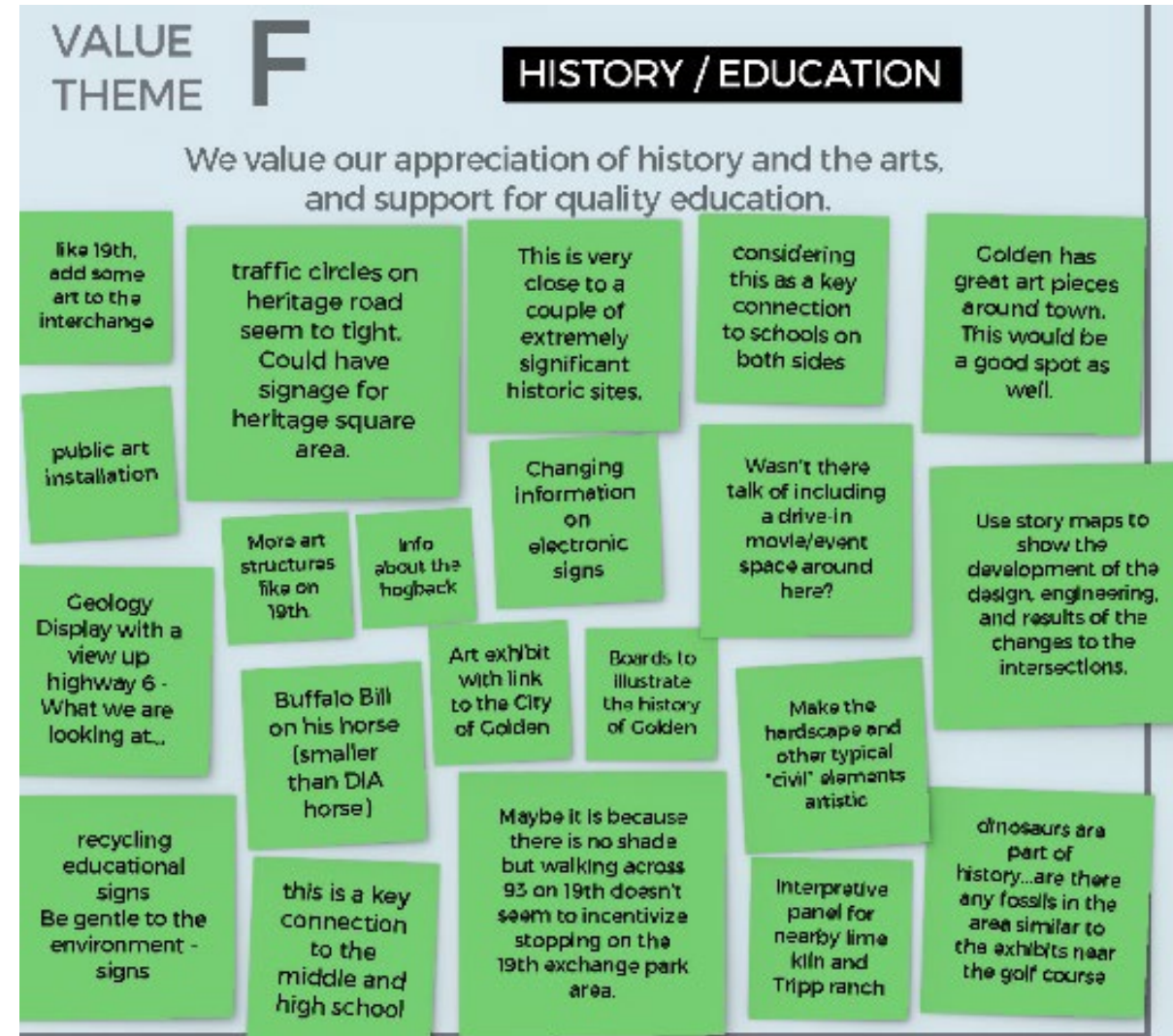
Community Value Themes

- We value retaining convenience to services and amenities and our proximity to Denver and mountains
 - Improve signal at Warner Drive. Another Roundabout?
 - This area is a key connection to light rail, trail connections, Apex open space, businesses
 - It is not easy to get to Downtown Golden from that Heritage intersection
 - A lot a Heritage cyclist turn left to access the NB US 6 rec trail and conflict with vehicles. Reduce or remove this conflict.
 - Access, access, access
 - Signage for the paths so walkers/riders know where to go.



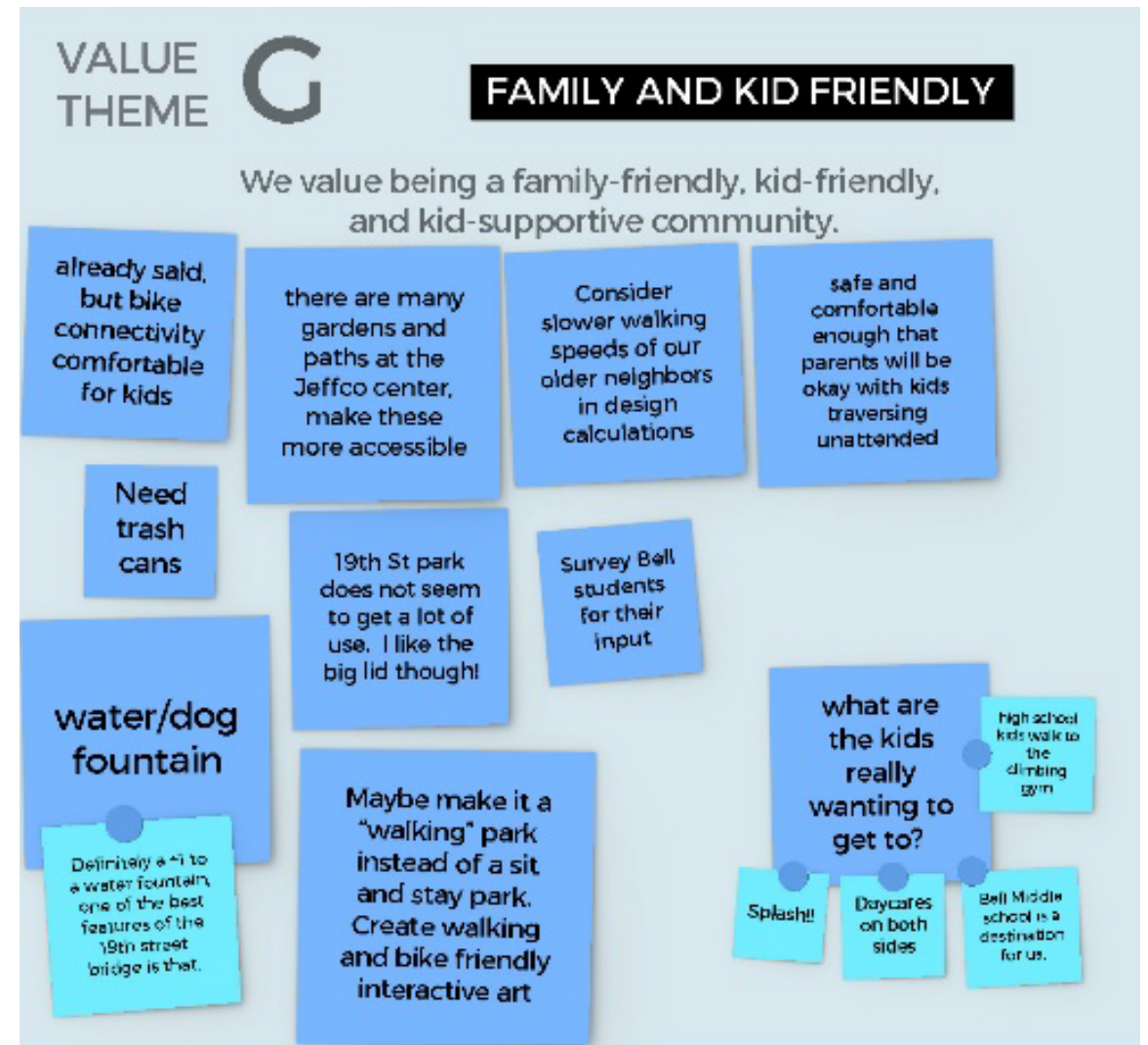
Community Value Themes

- We value our appreciation of history and the arts and support for quality education.
 - Recycling educational signs and “Be gentle to the environment” signs
 - Like 19th, add some art to the interchange
 - Use story maps to show the development of the design, engineering, and results of the changes to the intersections.
 - Interpretive panel for nearby lime kiln and Tripp ranch
 - Dinosaurs are part of history...are there any fossils in the area similar to the exhibits near the golf course?
 - Make the hardscape and other typical “civil” elements artistic



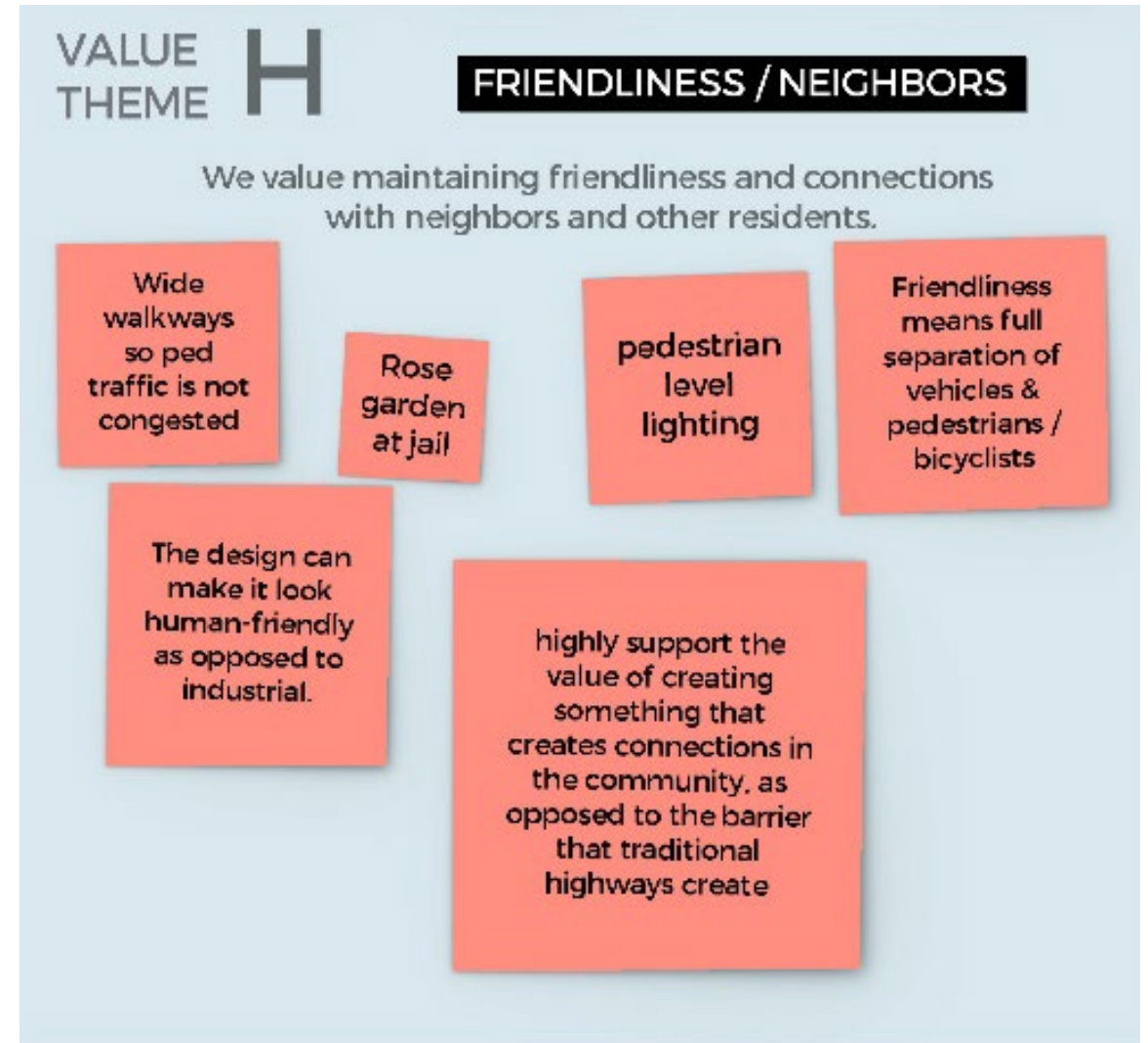
Community Value Themes

- We value being a family-friendly, kid-friendly and kid-supportive community.
 - Water/dog fountain
 - Already said, but bike connectivity comfortable for kids
 - Consider slower walking speeds of our older neighbors in design calculations
 - Survey Bell students for their input
 - High school kids walk to the climbing gym
 - Maybe make it a “walking” park instead of a sit and stay park. Create walking and bike friendly interactive art



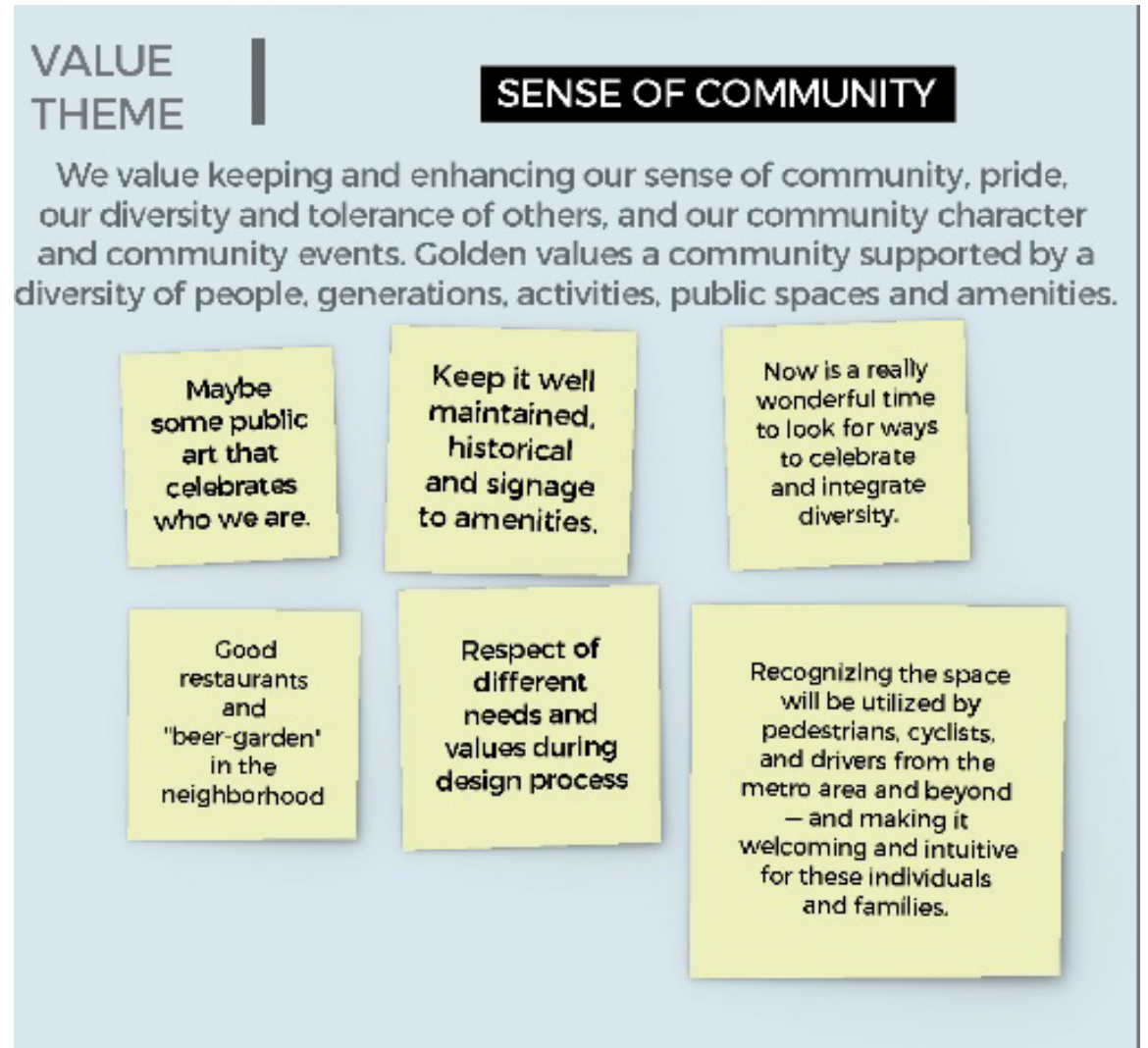
Community Value Themes

- We value maintaining friendliness and connections with neighbors and other residents.
 - Wide walkways so ped traffic is not congested
 - Friendliness means full separation of vehicles & pedestrians / bicyclists
 - Pedestrian level lighting
 - Rose garden at jail
 - The design can make it look human-friendly as opposed to industrial.
 - Highly support the value of creating something that creates connections in the community, as opposed to the barrier that traditional highways create



Community Value Themes

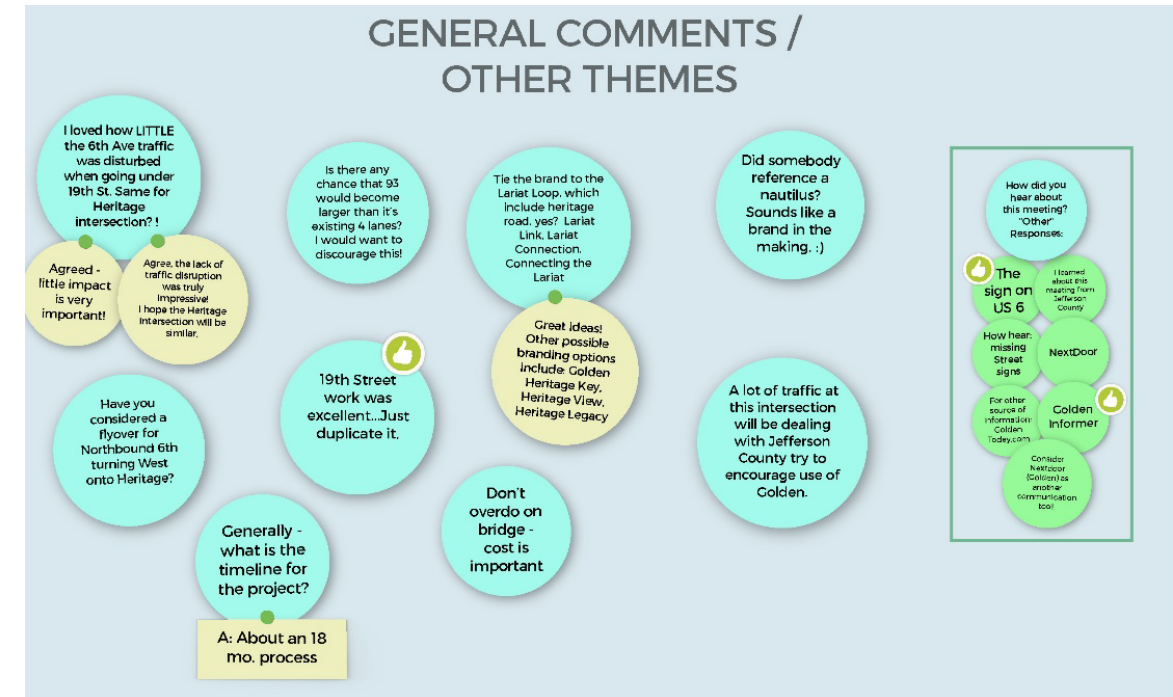
- We value keeping and enhancing our sense of community, pride, our diversity and tolerance of others, and our community character and community events. Golden values a community supported by a diversity of people, generations, activities, public spaces, and amenities.
 - Maybe some public art that celebrates who we are.
 - Now is a really wonderful time to look for ways to celebrate and integrate diversity.
 - Respect of different needs and values during design process
 - Good restaurants and "beer-garden" in the neighborhood
 - Recognizing the space will be utilized by pedestrians, cyclists, and drivers from the metro area and beyond — and making it welcoming and intuitive for these individuals and families.
 - Keep it well maintained, historical and signage to amenities



Community Value Themes

• General Comments

- I found the virtual format to be more accessible than the in-person meetings for busy families and schedules, and just as effective if not more so. Thank you.
- Don't overdo on bridge - cost is important
- Zoom and associated tools worked MUCH BETTER than I expected. A new standard to encourage greater community participation.
- Great ideas! Other possible branding options include: Golden Heritage Key, Heritage View, Heritage Legacy
- Did somebody reference a nautilus? Sounds like a brand in the making. :)
- 19th Street work was excellent...Just duplicate it.

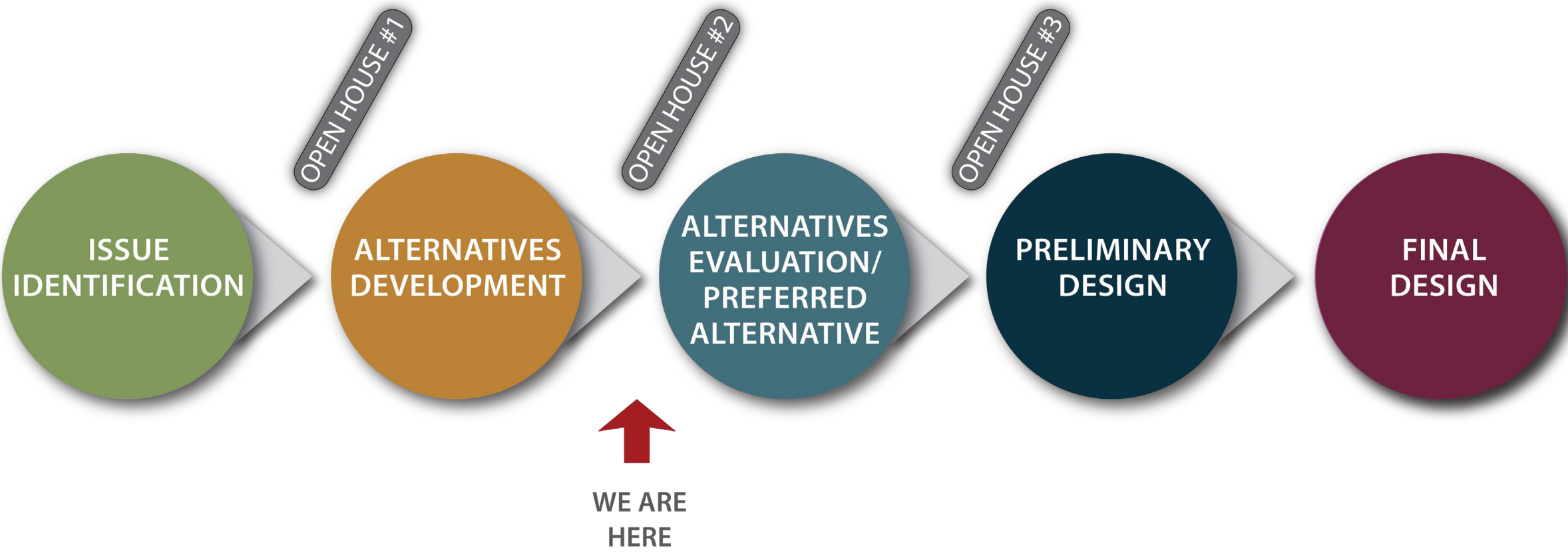


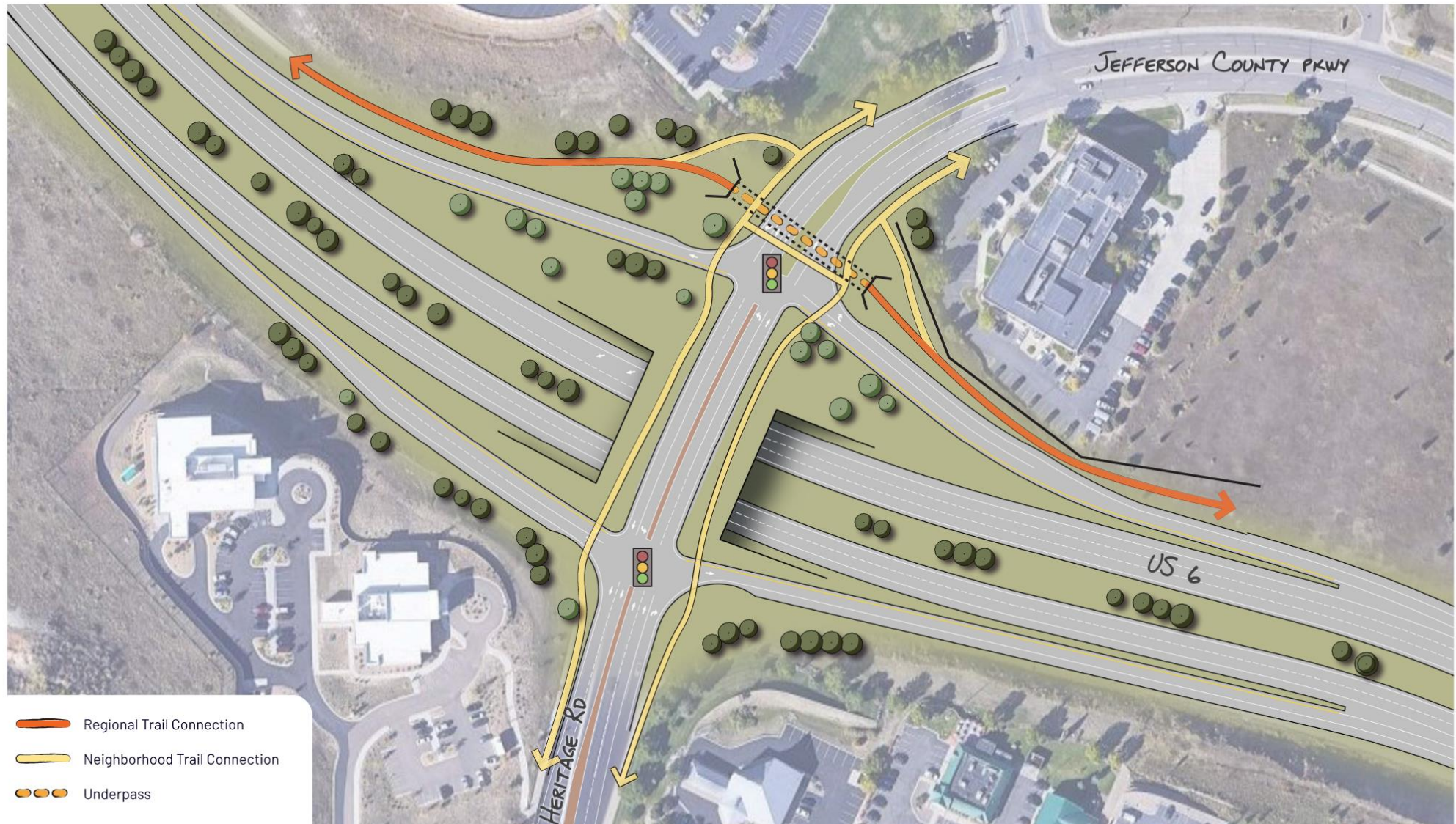
PRELIMINARY ALTERNATIVES

Nancy Lambertson - Muller



WHERE WE ARE IN THE PROCESS

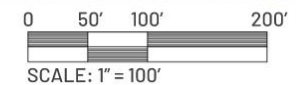




-  Regional Trail Connection
-  Neighborhood Trail Connection
-  Underpass



US 6 and Heritage Road Interchange
Signalized Diamond Option





Signalized Diamond Interchange

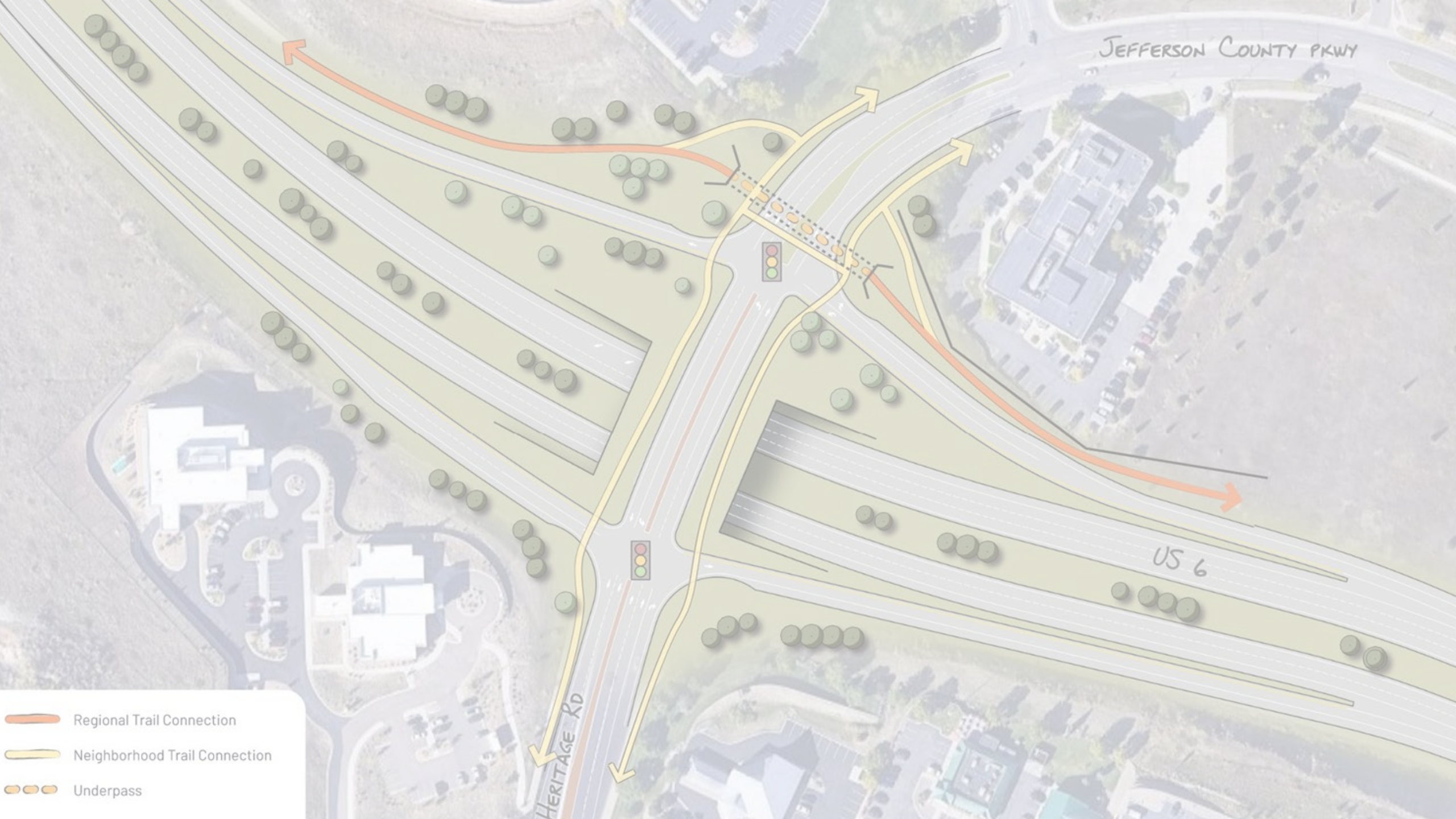
Signalized Diamond Interchange

PROS

- Familiar to drivers
- Smallest footprint
- Continuous on-street bike lanes

CONS

- Uses traffic signals
- Has longest vehicle delays and queues
- Does not slow vehicle speeds
- Not proper spacing between signals
- Multilane crossings for potential trails

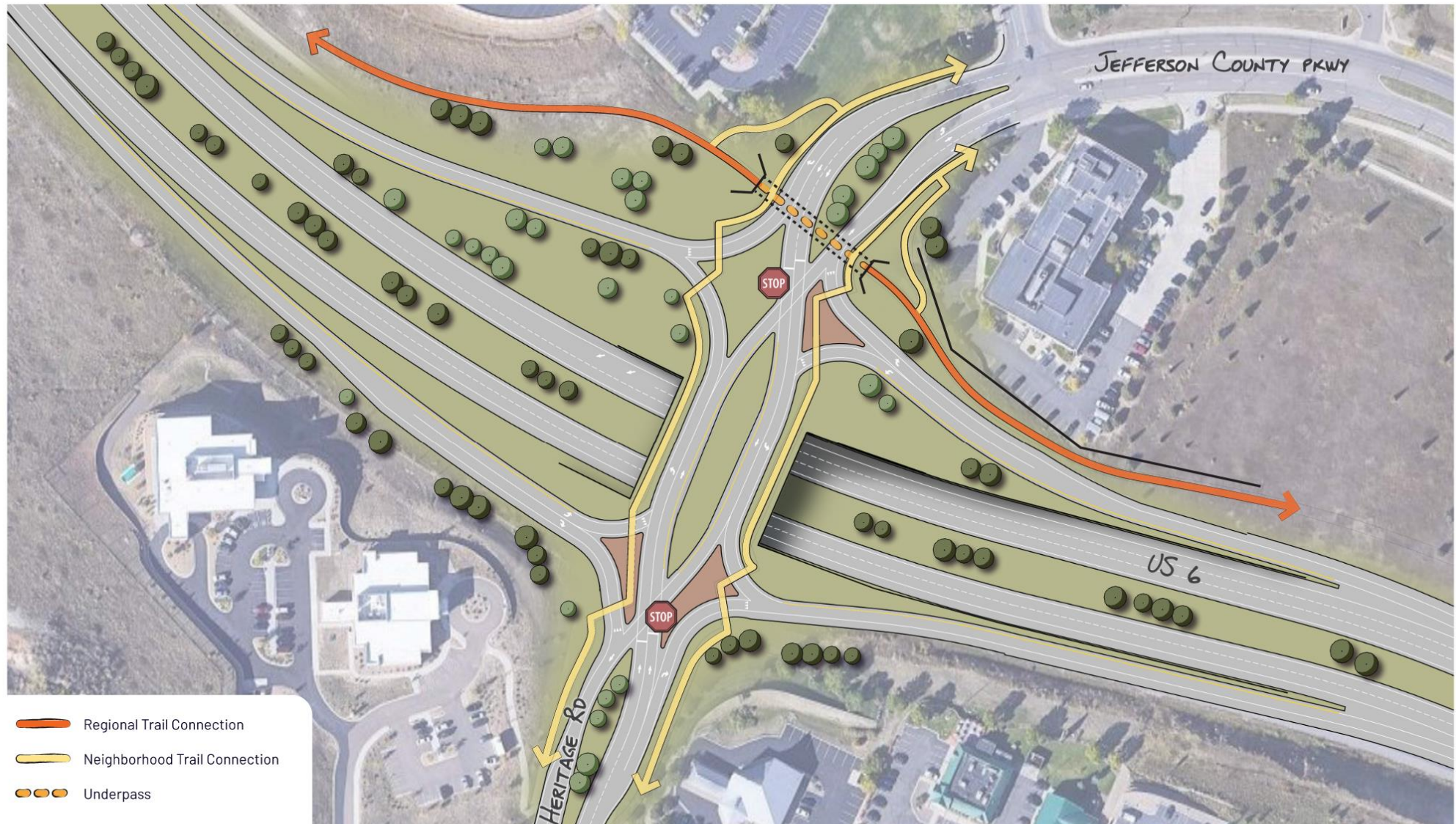


JEFFERSON COUNTY PKWY

US 6

HERITAGE RD

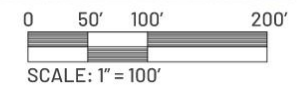
- Regional Trail Connection
- Neighborhood Trail Connection
- Underpass

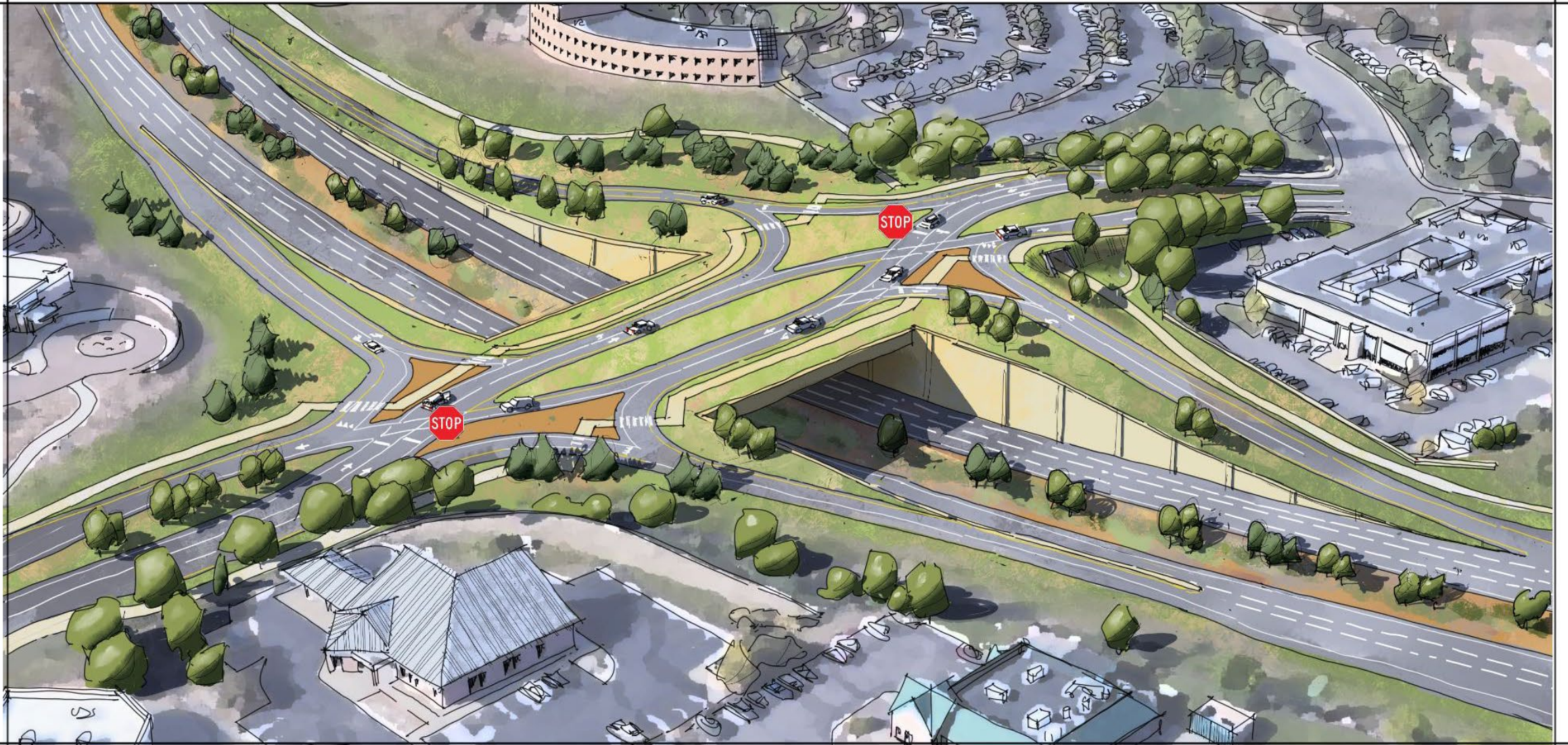


-  Regional Trail Connection
-  Neighborhood Trail Connection
-  Underpass



US 6 and Heritage Road Interchange
Stop - Controlled Diverging Diamond Option





Stop-controlled Diverging Diamond Interchange

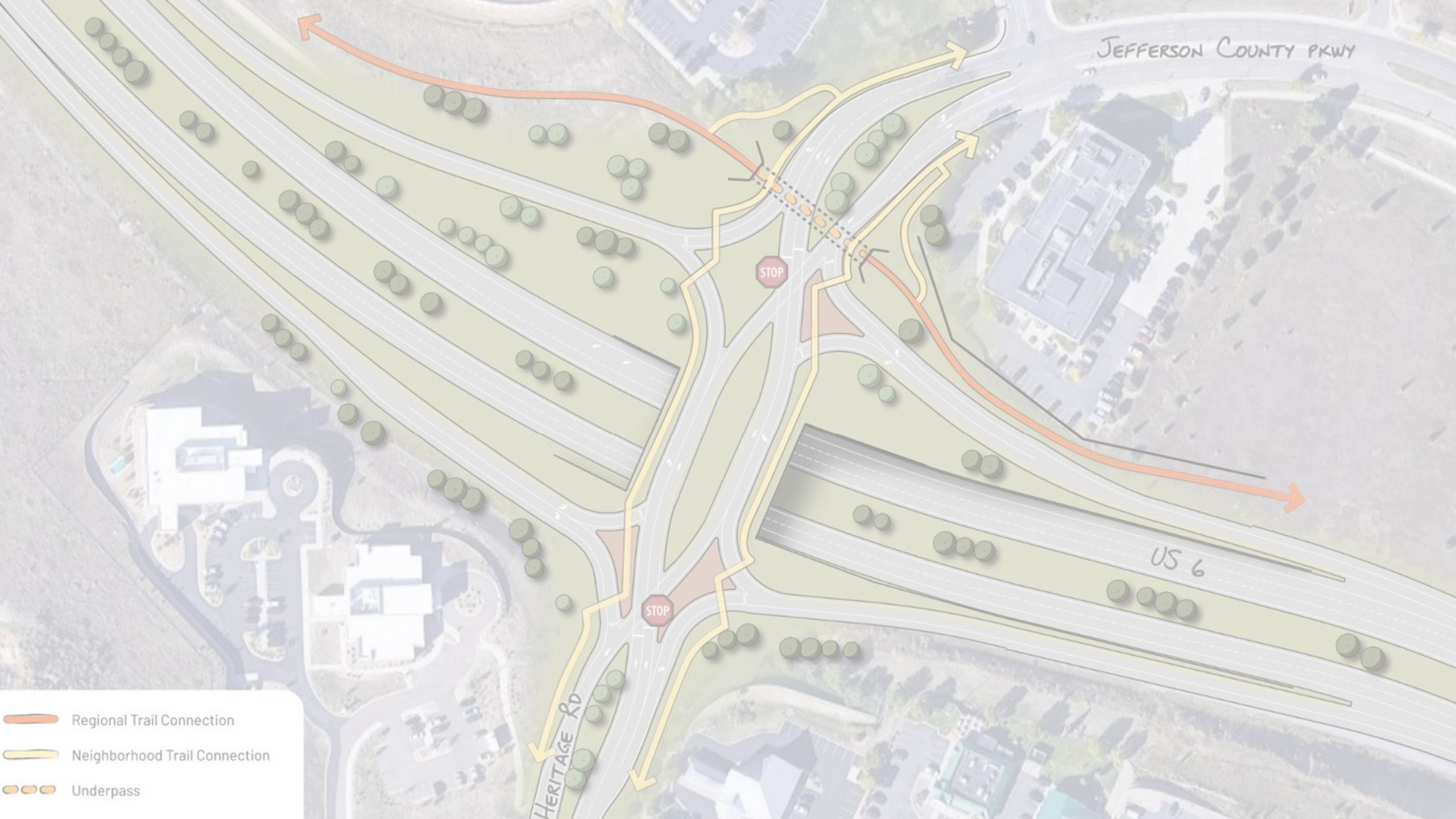
Stop-controlled Diverging Diamond Interchange

PROS

- Most similar to US 6 & 19th operation
- Unsignalized with one stop
- Reduces vehicle crossing conflicts
- Construction phasing benefits
- Continuous on-street bike lanes

CONS

- Unfamiliar to drivers
- Oversized vehicles cannot go thru at ramps
- Difficult to plow in winter
- Highest number of crossings for potential trails

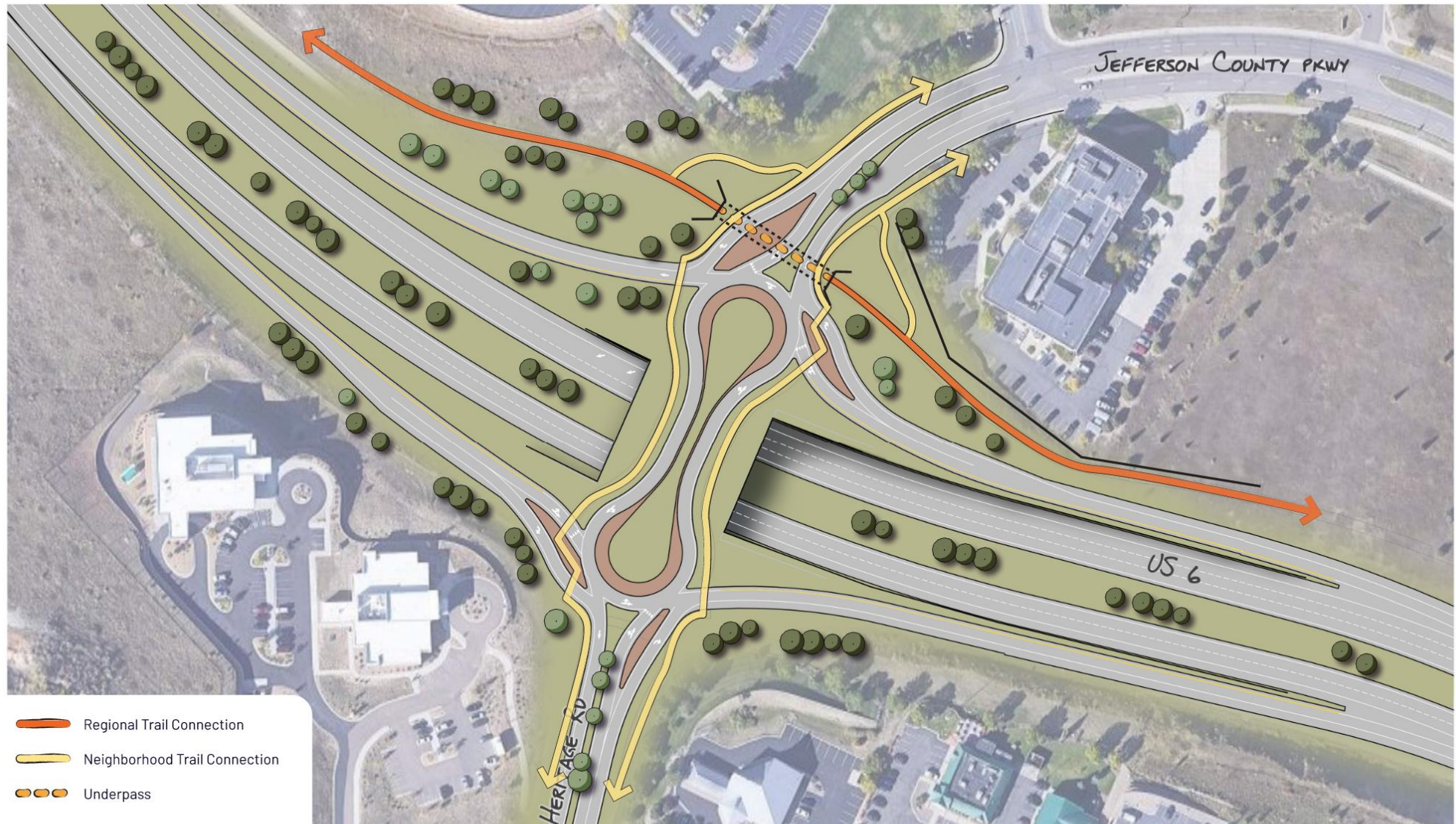


JEFFERSON COUNTY PKWY

US 6

HERITAGE RD

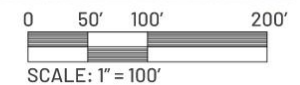
- Regional Trail Connection
- Neighborhood Trail Connection
- Underpass

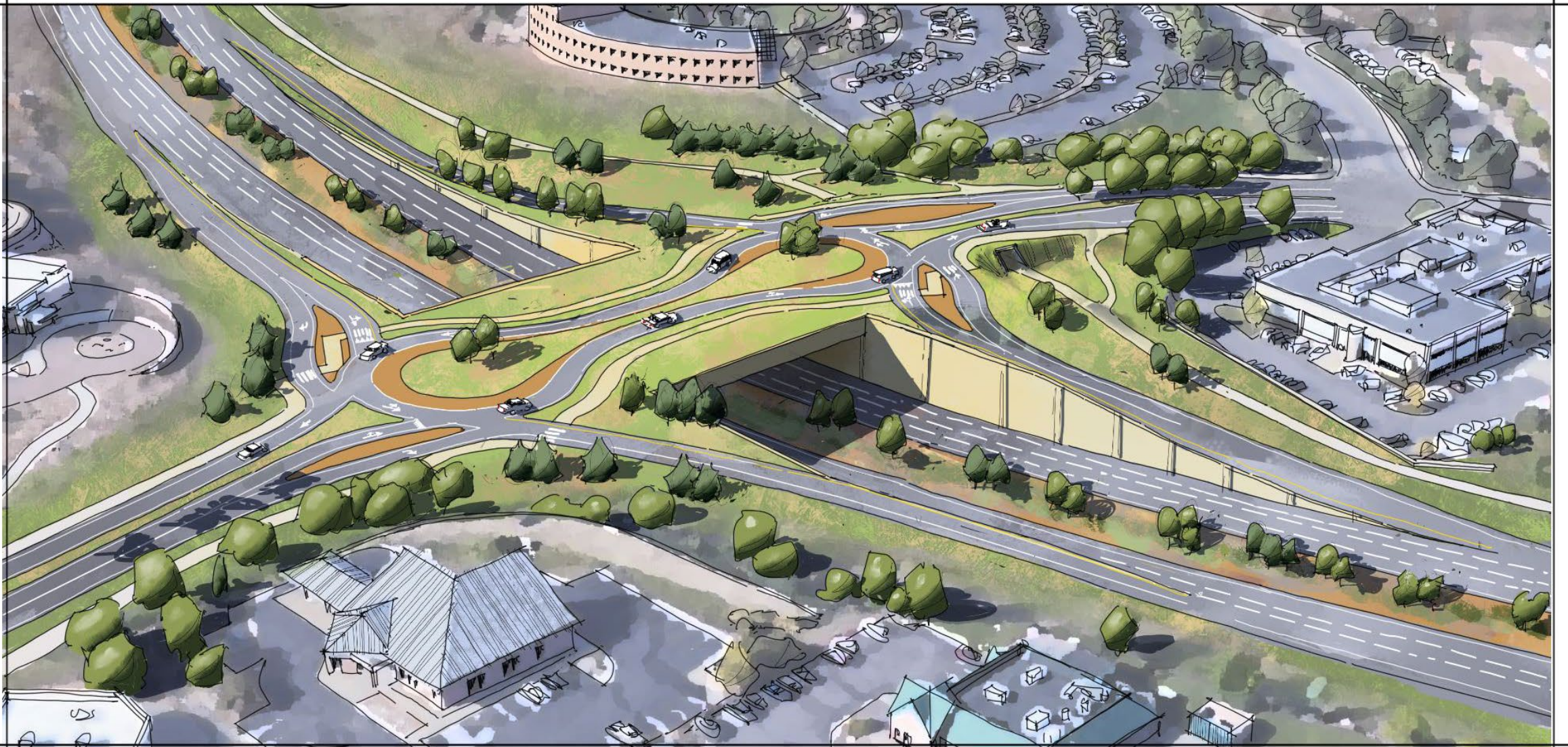


-  Regional Trail Connection
-  Neighborhood Trail Connection
-  Underpass



US 6 and Heritage Road Interchange
Dual Roundabouts Option





Dual Roundabouts Interchange

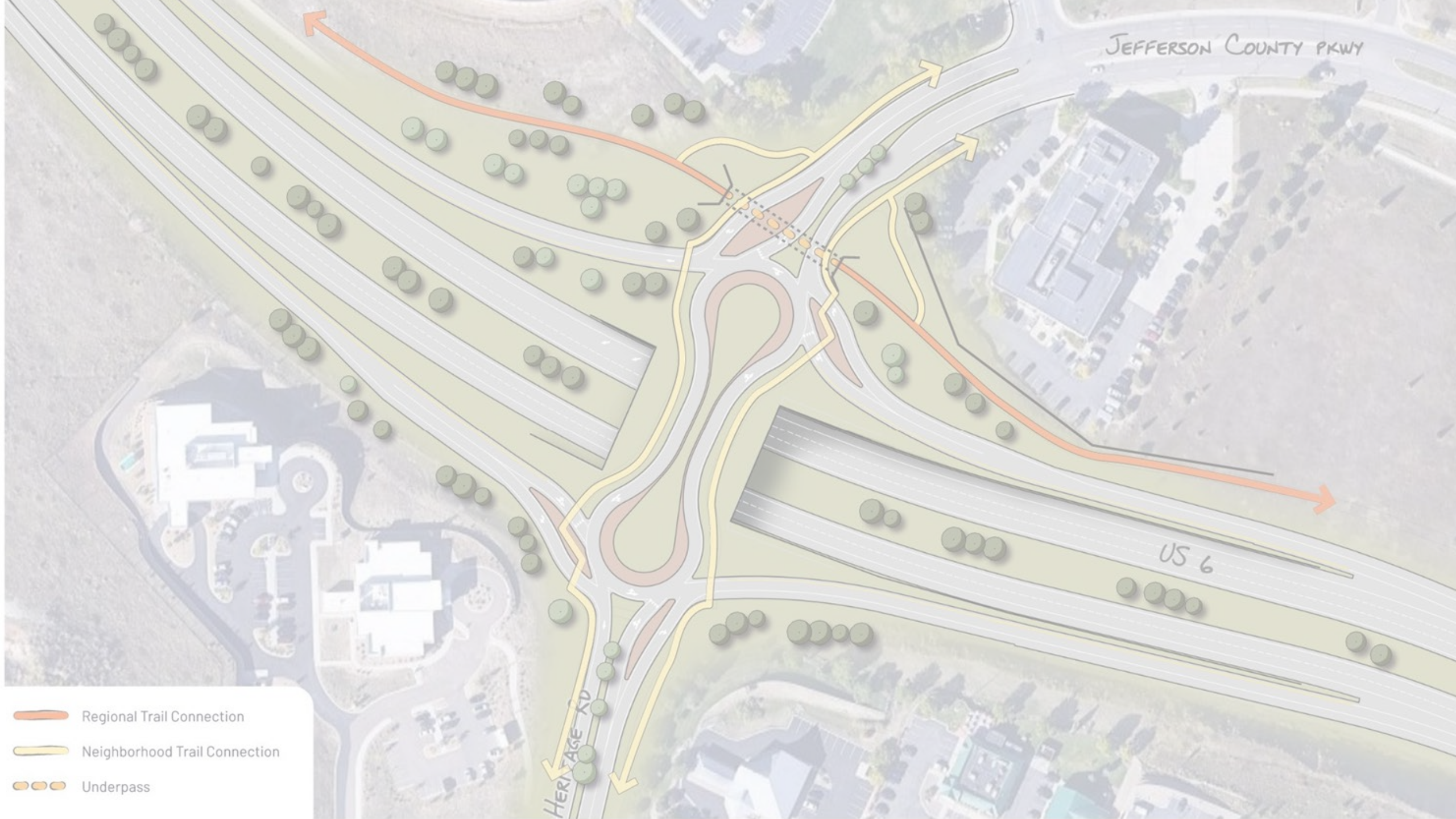
Dual Roundabouts Interchange

PROS

- Least delay for vehicles
- Effectively manages speed
- More flexibility with ramp locations
- Reduces crash severity and frequency
- No vehicle crossing conflicts
- One-lane crossings for potential trails

CONS




- Must have properly designed roundabouts
- Challenging to construct

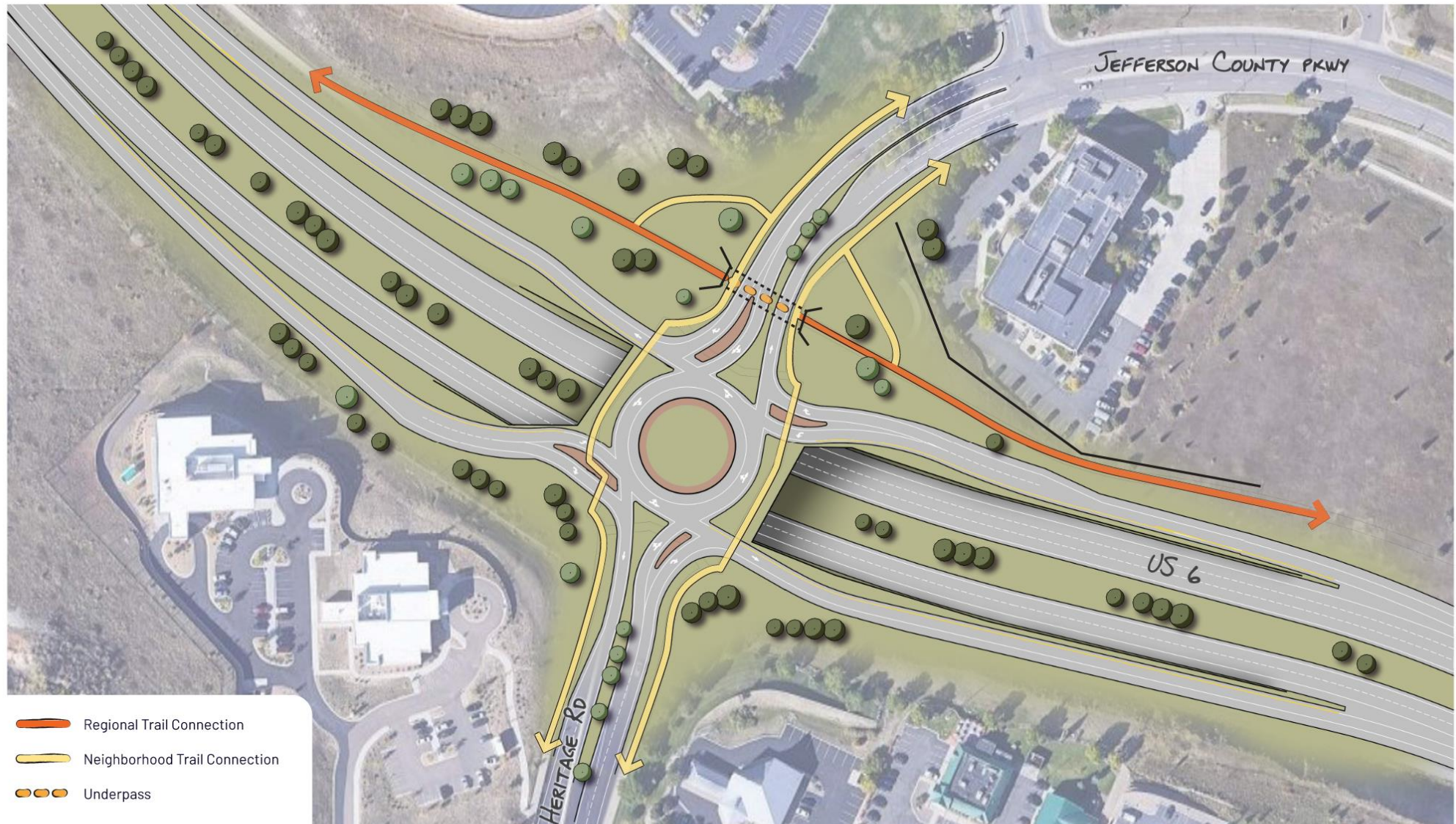


JEFFERSON COUNTY PKWY

US 6

HERITAGE RD

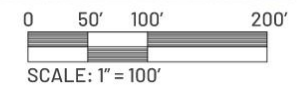
-  Regional Trail Connection
-  Neighborhood Trail Connection
-  Underpass

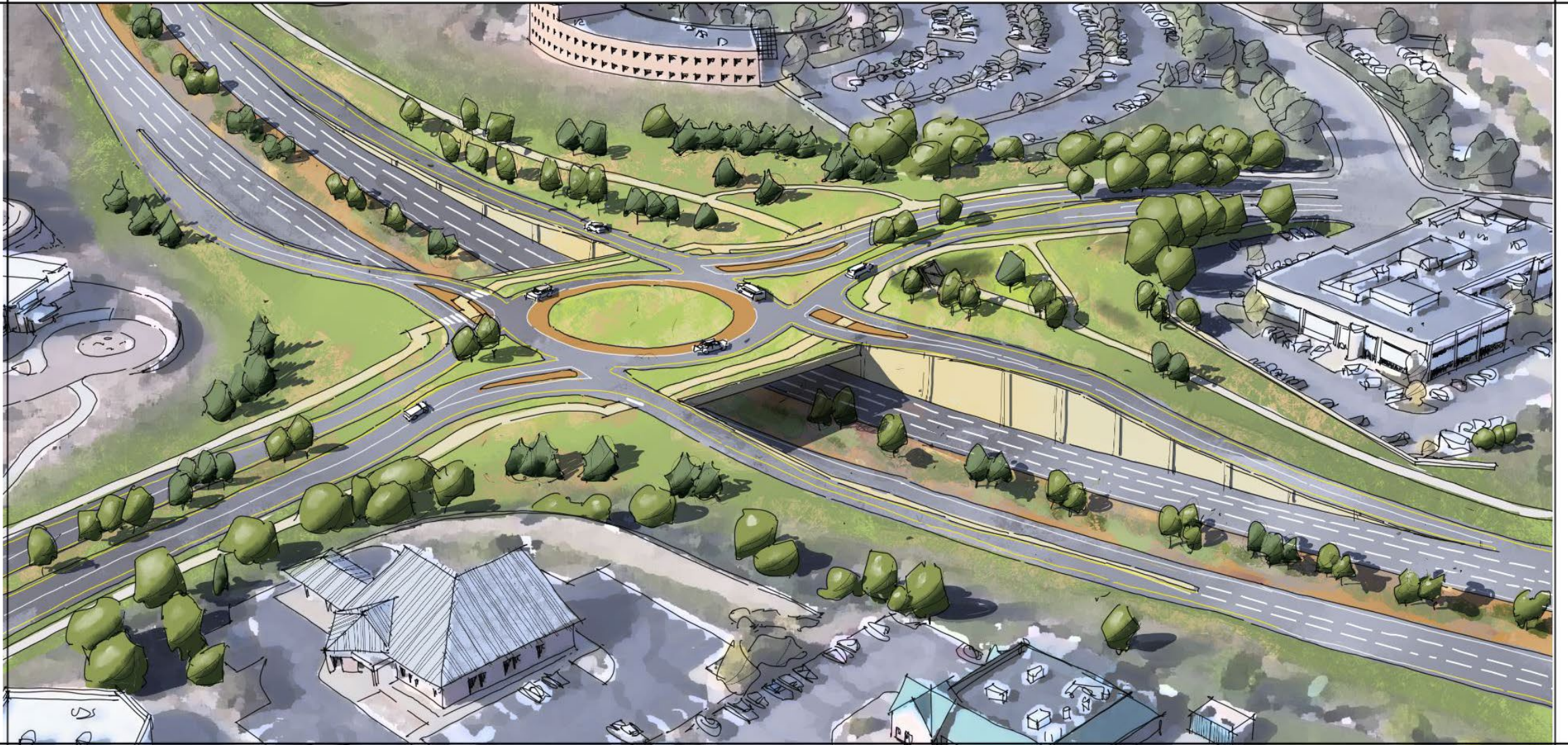


-  Regional Trail Connection
-  Neighborhood Trail Connection
-  Underpass



US 6 and Heritage Road Interchange
Single Roundabout Option





Single Roundabout Interchange

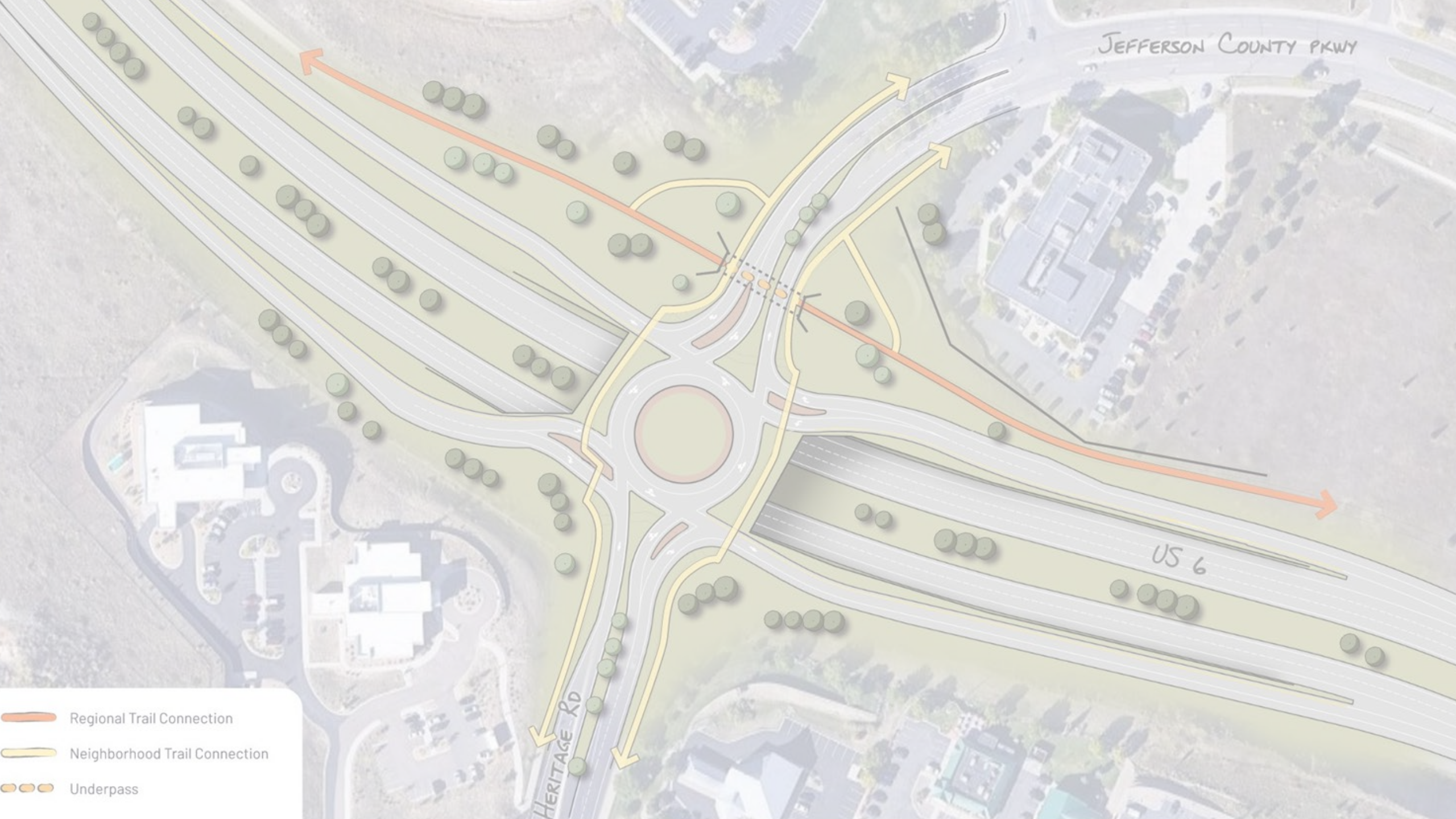
Single Roundabout Interchange

PROS

- Less vehicle delay
- Most compact footprint
- Potential for amenity zones outside interchange
- Most separation from regional trail
- One-lane crossings for potential trails

CONS




- Unusual configuration to design
- Larger bridge = more cost
- Not as familiar to drivers
- More “throwaway” pavement and detours during construction



JEFFERSON COUNTY PKWY

US 6

HERITAGE RD

-  Regional Trail Connection
-  Neighborhood Trail Connection
-  Underpass

LANDSCAPE THEMES VISUAL PREFERENCE

Paul Kuhn -- MIG

ADDITIONAL COMMENTS / NEXT STEPS

Dan Hartman – City of Golden

Three next steps

- Remember Guiding Golden.
- We will take your input and refine top rated options for bike and pedestrians along with visual elements.
- We plan to come back for input by spring to get your input to select an alternative and begin to complete the final design.





Open Discussion



An aerial architectural rendering of a proposed highway interchange and surrounding development. The scene features a multi-lane highway with a complex interchange design, including several overpasses and ramps. To the left of the highway, there is a large commercial or industrial complex with multiple buildings, parking lots, and landscaped areas. To the right, a large, circular building with a flat roof is visible, surrounded by more parking and greenery. The overall landscape is a mix of developed areas and open land, with some trees and shrubs scattered throughout. The text "Thank You" is overlaid in the center of the image.

Thank You



City of
Golden



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