



**Colorado State University
Alternative Transportation Fee Advisory Board
2018-2019 Project Proposal Form**



Project Name/Location: Design study for University Ave & Library bike trail intersection - FM Priority 2

Estimated Initial Cost: \$35,000 Estimated Reoccurring Cost (if applicable): _____

Funding Request from ATFAB: \$35,000 Matching Funds (if applicable): _____

Please Attach the Full Budget: Include total cost, amount requested from ATFAB, breakdown of all expenses, funding from other sources, etc. Please be thorough and specific.

Submitting Unit:

Name: David Hansen

Telephone: 970.567.0031

Email Address: david.hansen@colostate.edu

Department: Facilities Management

College or Division: University Operations

Approvals (Signatures):

Department Head/ Director: [Signature] Signature/ Date: 1-17-19

Dean/ VP: [Signature] Signature/ Date: 1-17-19

VPUO: [Signature] Signature/ Date: 1/17/19

Provost: [Signature] Signature/ Date: 1/17/19

*Whoever oversees the areas affected by the proposed project. For example, if the proposal was to add covered bike parking near the LSC, you need to contact the Director/Department Head in charge of the LSC. Please contact ATFAB with any questions.

Facilities Management Approval of Estimated Budget/Schedule

Name: David Hansen Signature/Date: [Signature] 1/16/19

Fill out and return proposal documents via email to ATFAB_CSU@colostate.edu and Aaron.Fodge@colostate.edu Deadline – Friday January 18, 2019

**If project involves infrastructure construction, CSU Facilities must review cost estimates and proposal schedule. Facilities Deadline – Friday December 14, 2019
Please email to David Hansen at David.Hansen@colostate.edu**

If accepted, you will be asked to give a 30-minute formal presentation to the ATFAB.

Estimated Project Budget:

- Geographic Site Survey: \$7,500.00 (Survey crew fee)
 - Engineering Consultant: \$25,000.00 (Professional Design Fee)
 - Administrative Costs: \$2,500.00 (Contract Administration, Project Management)
- Requested Total: \$35,000.00

1. Description of the project (limit to ½ page):

Intersection study of University Avenue and Library bike trail

As campus bicycle ridership, longboards, and pedestrian numbers have increased since the 2012 implementation of infrastructure at this intersection there is growing concern around the safety for users that travel through it. A design feasibility study of this space may help to determine a solution or series of solutions that could help make it a safer space to navigate. Recent Rambassador data reveals that during the peak hour, we have an average of: 236 bikes, 450 pedestrians, and 40 longboards converging on the dismount zone entry of the LSC Plaza.

Reported crash and injury data near the LSC and Library show approximately 12 incidents involving cyclists in the last 5 years. Most recently in 2018 was an LSC employee who had serious injuries as a pedestrian who was struck by a cyclist. Undoubtedly there are many more “near-misses” that are never reported as suggested by CSUPD.

A senior capstone project in engineering considered a roundabout solution for the intersection in 2016 to see how this might improve movements through the space. Considering this study as well as understanding future planning initiatives for the campus is critical to determine a “best-fit” solution for this complicated space. The project will need to consider other critical service access needs of the campus including emergency response as well as the LSC Theater loading dock. Developing a plan that can work for daily use, as well as being able to accommodate these other movements is critical to the success of the design. Storm water quality and drainage is also critical to any section of street that is redeveloped. The design study may include grading, asphalt and concrete paving, concrete curb and gutter, new sidewalk, sidewalk ramps, pavement striping, signage, electrical and storm water utility work, landscape, and irrigation.

The selected consultant would typically provide the following to CSU Facilities Management:

- Engineered concept drawing taken to a 50% design development level of completion
- Class 5 level cost opinion of the proposed design solution
- geographical site survey information obtained
- technical memorandum of findings

2. Approximate timeline for the project (have you contacted Facilities for a bid and proposed schedule?)

Project Design execution in 2019 pending funding approval

Planning & Design Time: 4-6 months

3. Please provide a discussion of how users will be supported (limit to ¼ page):

Any design solution would strive to make the space safer for all users. Today parking lot #425 is >95% utilized on a daily basis and provides direct access to campus for those that choose to drive. As these

users exit their cars and proceed into the core of campus, they are immediately confronted with having to navigate across a heavily utilized bikeway. Developing a solution for the space that provides clear infrastructure through signage, wayfinding, and physical barriers to clearly delineate where all users are to be would help advance a campus conversation for infrastructure planning and funding.

4. Please describe the benefits to students in accordance with ATFAB By-Laws (see Article VII, Funding Rules). Website: <https://atfab.colostate.edu/atfab-bylaws/>

The bulk of on-campus student residents live to the west of this intersection and in most likelihood navigate through it as they access the academic core of campus. Given the number of users that pass through this space on a daily basis, there is a concern about safety in its current configuration. Bicyclists, longboards, and pedestrians do not adhere to the traffic pattern indicated by the current striping on the ground, and this project will aim to create a much safer, delineated space for users.

5. Please Provide any evidence that there is student support for the following proposal (i.e. petitioning, letters of support, requests for proposal by students, ASCSU Resolutions, College Council approvals, etc.) It is highly recommended that proposals reach out to students; the level of student support for your proposal will likely affect the board's decision to fund it.

A CSU Bike Plan draft was presented to the following on-campus groups in the fall of 2014.

- Master Plan Committee
- Physical Development Committee
- President's Sustainability Committee
- Division of Student Affairs Directors
- Associated Students of Colorado State University (ASCSU) Senate
- Parking and Transportation Open Houses (2)

A student led draft design concept was studied in 2016 as part of a College of Engineering capstone project. Students created a mock roundabout with cones and temporary striping to see how users would interact with the proposed infrastructure. A survey process was part of this mock scenario, reporting that students felt safer going through the intersection during the study.

6. Is your project mentioned in any of the Master Plan documents? Has the Campus Bicycle Advisory Committee discussed this project? It is recommended that you consult CBAC or the Master Plan Committee for letters of support and advice regarding your proposal. Please attach any documents if applicable.

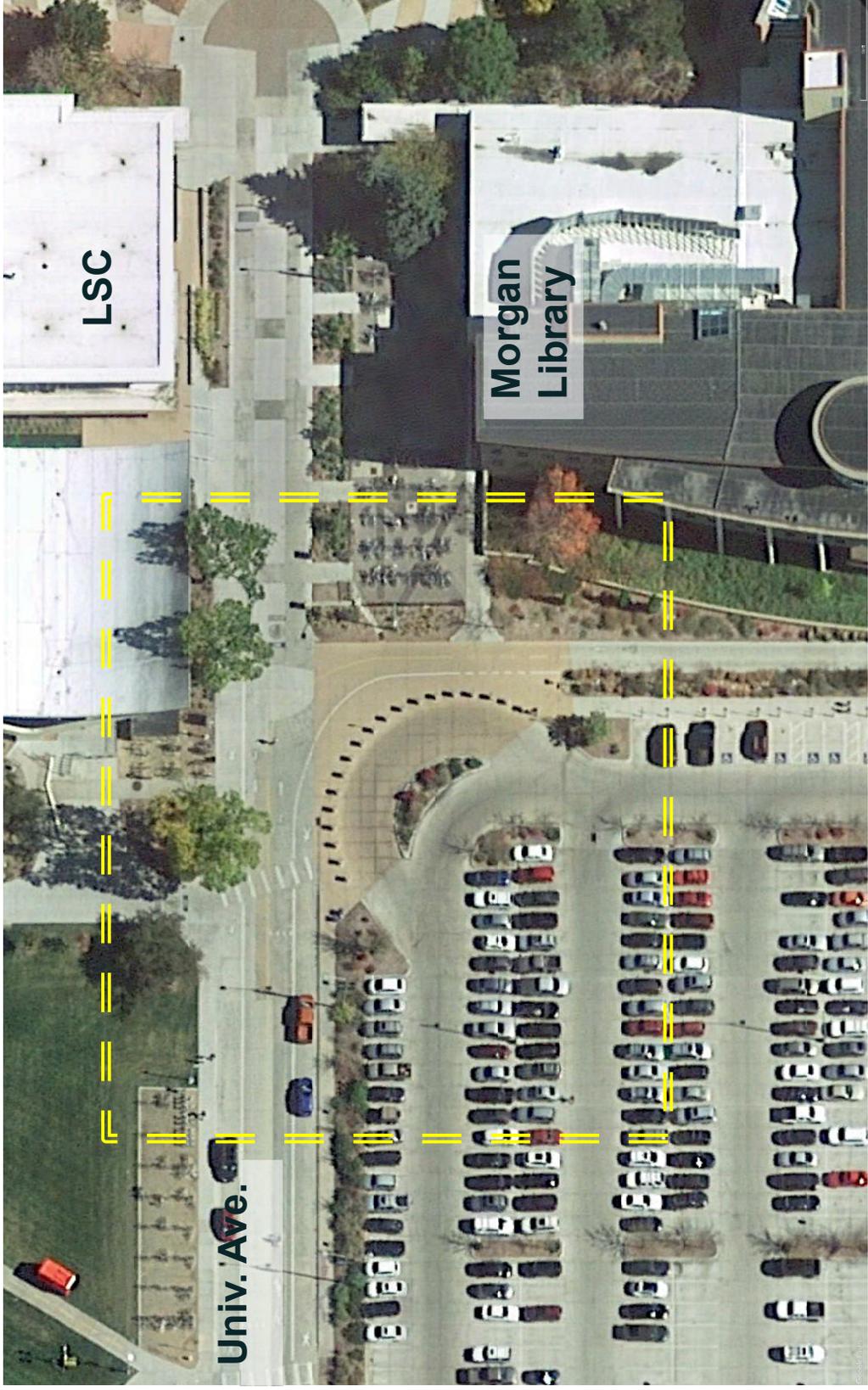
Improvements to University Avenue are represented in the University Bicycle masterplan as a project that should be considered for further development and implementation. The campus bicycle advisory committee was consulted for input on the bicycle masterplan by the consultant team on multiple occasions throughout the process of developing the document. The University bicycle masterplan has also been presented to the University Masterplan Committee and was adopted as a subset to the overall campus masterplan by the committee.

7. Please Provide any additional information below.

Additional efforts required for project refinement may include:

- User counts
- Design & Constructability Analysis – including considerations of large vehicle access
- Coordination with Master Planning Committee & University Organizations
- Flood Plain Analysis-Storm Water Management

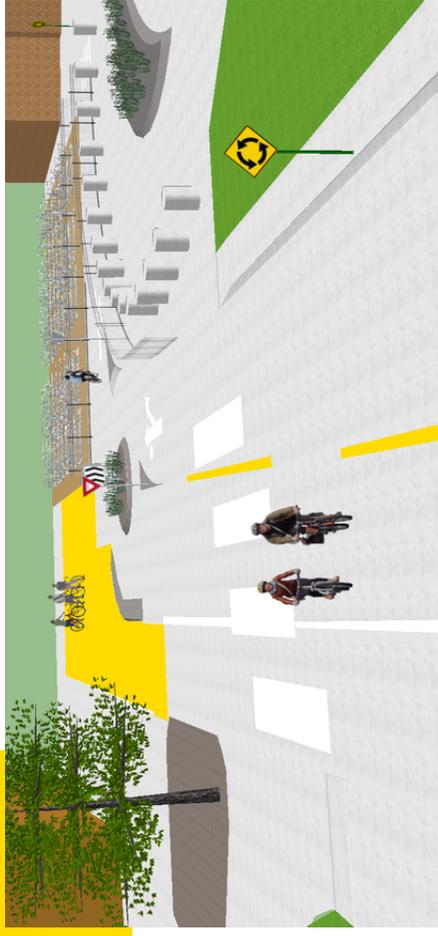
Please see attached graphics for more information.



Existing Condition – Area of Study



University Avenue - View looking west



2016 Roundabout concept – Student capstone engineering project

University Avenue - View looking east