Mace Boulevard Redesign

Public Workshop

July 15, 2020
Agenda

- Overview of transportation issues on Mace Boulevard
- City Council direction
- Preliminary design concepts
- Next steps
Goals

- Reduce the delay for residents along the corridor
- Accommodate people riding bicycles of all ages and abilities
- Reduce induced commute bypass from navigations applications
- Accommodate emergency response and farm vehicles
Evaluation Criteria

<table>
<thead>
<tr>
<th>Existing Congested Conditions</th>
<th>Corridor Alternatives</th>
<th>Alt. 1</th>
<th>Alt. 2</th>
<th>Alt. 3</th>
<th>Alt. 4</th>
<th>Alt. 5</th>
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<th>Alt. 9</th>
<th>Alt. 10</th>
<th>Alt. 11</th>
<th>Alt. 12</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Signalize San Marino Dr</td>
<td>-0:26</td>
<td>-0:28</td>
<td>-0:35</td>
<td>+0:34</td>
<td>-2:03</td>
<td>-0:37</td>
<td>-1:38</td>
<td>-1:53</td>
<td>-3:10</td>
<td>+0:25</td>
<td>-1:36</td>
<td></td>
</tr>
</tbody>
</table>
| Planning level cost ranges: $ = $500k - $1M, $$ = $1M - $1.5M, $$$ = $1.5M - $2M

| Corridor Travel Time Change (mm:ss) | Local travel to Davis destinations (Montgomery Ave to Chiles Rd) | 6:08   | -1:26  | -0:28  | -0:19  | -1:10  | +0:22  | -2:33  | -0:31  | -1:58  | -2:22  | -2:48  |
|                                      | Local travel to I-80 (Montgomery Ave to I-80)                     | 11:51  | -1:25  | -0:26  | -0:28  | -1:35  | +0:34  | -2:03  | -0:37  | -1:38  | -1:53  | -3:10  |
|                                      | Regional cut through travel to I-80 (1,200 ft south of Montgomery Ave to I-80) | 12:32  | +0:41  | -0:27  | -0:29  | +1:08  | +3:01  | -2:04  | -0:37  | -1:38  | -1:53  | -0:58  |
| SB Emergency Vehicle Access          | --                                          | --     | --     | --     | +      | --     | +      | --     | --     | --     | --     | --     |
| Cost                                | $                                           | $      | $      | $      | $$$$   | $$$    | $      | $      | $      | $      | $$     | $      |

modules
City Council Direction

- New traffic signal at Montgomery Ave.
- Two northbound lanes between N El Macero Dr. and Cowell Blvd.
- Revisions to San Marino Ave. intersection
- Modify bikeway buffers
- Modify the protected intersection and signal timing at Cowell Blvd.
City Council Direction

- Extend two-way bikeways where possible
- Modify on-street parking
- Adding northbound right turn at Cowell Blvd
- Modify slip ramp at I-80 with additional storage
Project Area #1
Traffic Signal at Montgomery Ave.

- Install new traffic signal, signs, and markings
- Video detection for cars and bicycles
- Driveway to east will be included in signal
- Traffic Monitoring Station

REMoval Notes:
1. Remove existing stop signs or blat at Mac Boulevard / Montgomery Avenue
2. Remove existing stop signs at Mac Boulevard / Montgomery Avenue
3. Remove existing stop signs at Montgomery Avenue
4. Install new traffic signal, signs, and markings

Driveway to east will be included in signal.
Project Area #1
Traffic Signal at Montgomery Ave.

- Install new traffic signal with video detection for cars and bikes
- Monitoring station that will trigger more restrictive phasing
- Maximum queue in the northbound direction is 900’
Project Area #2
San Marino Drive to El Macero Drive

- Opportunity for additional landscaping
- Remove unnecessary islands
- Extend two-way separated bikeway
- Increase number of access ramps for parking
- Reduce the number of flashing red lights
Project Area #2
San Marino Drive to El Macero Drive

EXISTING CONDITIONS
PROJECT AREA #2

PROPOSED CONDITIONS
PROJECT AREA #2
Project Area #2
San Marino Drive to El Macero Drive
Project Area #2
San Marino Drive to El Macero Drive
Project Area #3 – Option 1
El Macero Drive to Cowell Blvd.

- Add second northbound travel lane
- Extend two-way bikeway operations to Cowell Blvd.
- Accommodate larger trucks and busses with apron
- Convert outside lane to right turn lane
- Remove orange barriers and reconstruct more forgiving islands
- Reconstruct barrier and slightly narrow bikeway
- Extend two-way bikeway operations to Cowell Blvd.
Project Area #3 – Option 1
El Macero Drive to Cowell Blvd.

EXISTING CONDITIONS
PROJECT AREA #3

CONCEPT 1
PROJECT AREA #3
Project Area #3 – Option 2
El Macero Drive to Cowell Blvd.

Add second northbound travel lane

Extend two-way bikeway operations to Cowell Blvd.

Accommodate larger trucks and busses with apron

Convert outside lane to right turn lane

Add two-way bikeway on east side by reconstructing barrier, bikeway, curb gutter and sidewalk

Remove orange barriers and reconstruct more forgiving islands
Project Area #3 – Option 2
El Macero Drive to Cowell Boulevard

EXISTING CONDITIONS
PROJECT AREA #3

CONCEPT 2
PROJECT AREA #3
Next Steps

• Refining concepts based on community and staff, and council input
• Create construction drawings for entire corridor
• Prioritize improvements, establish phasing, and assemble funding
• Back to community
How To Provide Feedback for the Mace Project

• Use macecomments30@cityofdavis.org to provide your comments.
• Comments will be accepted until 8:00 am July 30th and then the email will be disconnected.
• If you would like to provide comments on the project, please begin by stating which Project Area you are providing ideas on:
  – Project Area #1 – Traffic Signal at Montgomery Ave
  – Project Area #2 – San Marino Drive to El Macero Drive
  – Project Area #3 – El Macero Drive to Cowell Blvd
• Comments will be compiled and attached to the staff report that will go to City Council
• Questions received will be compiled with the comments but not responded to individually. The staff report will provide information to cover these questions.