



CITRUS HEIGHTS

The road belongs to all of us.

Welcome to the

Carriage Drive / Lauppe Lane Safe Schools Corridor Plan Virtual Workshop

May 12, 2020

Toda la información presentada en esta presentación se incluye en la encuesta del proyecto, que está disponible en español en el sitio web del proyecto: www.citrusheights.net/944

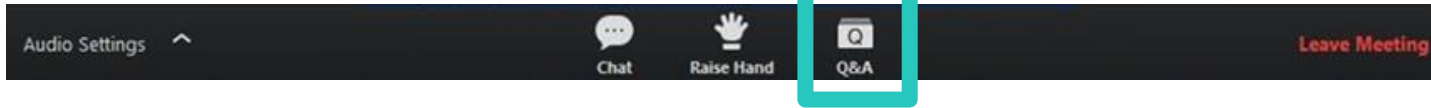
Envía tus preguntas aquí: CLSSCP@citrusheights.net

Вся представленная в этой презентации информация включена в опрос проекта, который имеется на русском языке на сайте проекта: www.citrusheights.net/944

Направляйте ваши вопросы по адресу: CLSSCP@citrusheights.net

Welcome to Zoom

- Participants are muted
- Q & A box is open for your questions; we will take questions throughout and follow up with those we don't get to



- Interactive polls throughout the workshop
- This webinar is being recorded and will be posted on the project webpage: www.citrusheights.net/944

Thanks for being here and participating!

Meet the panelists



Leslie Blomquist
City of Citrus Heights
Principal Civil Engineer



Daniel Cruz
City of Citrus Heights
Assistant Transportation Engineer



Dan Allison
San Juan USD
Safe Routes to School Coordinator



Jocelyn Walker
Alta Planning + Design
Project Manager, Engineer



Libby Nachman
Alta Planning + Design
Senior Planner



Shaun Gualco
City of Citrus Heights
Traffic Sergeant



Mary Poole
City of Citrus Heights
Operations Manager



Nichole Baxter
City of Citrus Heights
Communications Officer

Tonight's Outline

- Project Background & Workshop Goals
- Project Schedule
- What We've Heard
- Proposed Improvements & Alternatives
- Next Steps
- Q & A

Zoom Poll 1

What's your relationship to the project and project area?

- Student
- Parent/Guardian
- School Employee
- Neighborhood Resident
- Citrus Heights Community Member
- Other

(Please select all that apply.)

Carriage Drive/Lauppe Lane Safe Schools Corridor Plan Survey

Please visit our online survey to learn about the project, help identify preferred designs and safety improvements for the corridor, and shape the future of Carriage Drive and Lauppe Lane. We want to design roads that meet the needs of all people who walk, bike, scoot, and drive along the corridor.

www.citrusheights.net/944

Thank you to our partners



San Juan
Unified School District



Mesa Verde High



**Sylvan Middle
School**



**Carriage Drive
Elementary**

Project Goals

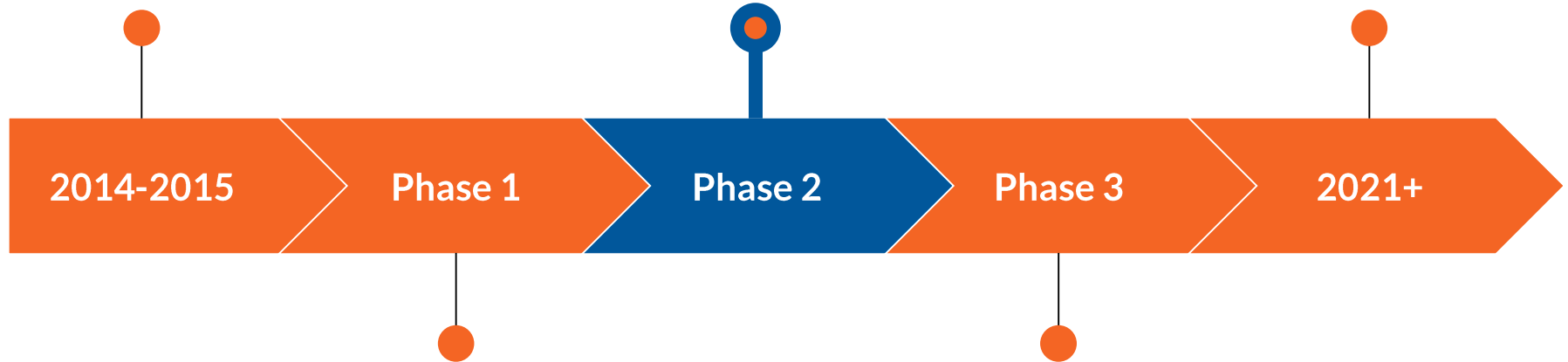
- Safety for parents and students traveling to and from school
- Safety for neighborhood residents
- Comfort for all people, whether they walk, bicycle, scoot, or drive
- More efficient access for school attendees and neighborhood residents

Need identified in Citrus Heights Bike Plan (2015) and Citrus Heights School Walkability Master Plan (2014)

We are here

- Conceptual Design Alternatives
- Second Round of Public Outreach

- Pursuing Plan Recommendations
- Grant Applications and Project Funding



- Existing Conditions Analysis
- First Round of Outreach Events

- Plan Implementation Strategy
- Final Plan Production

Zoom Poll 2

Have you previously engaged with this project? If so, how?

- Initial online survey
- Community open house at Mesa Verde High School on 9/24/19
- Project presentation during another community meeting I attended
- I talked to the project team at a school event
- Other
- No, this is my first time participating in this project

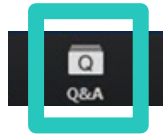
(Please select all that apply.)

Key issues identified in the first round of outreach

1. Safety for People Biking & Walking
2. Vehicle Traffic Patterns
3. Behavior of People Walking
4. Speed
5. Visibility at Lauppe Lane/Lauppe Lane Crosswalk

Any questions so far?

Please submit in the Q&A box at
the bottom of your screen



Proposed Safety Improvements

12 proposed improvements. 2 alternatives.

Each slide will include:

- Name of proposed improvement
- Photo of an example
- Benefits
- Trade-offs
- Locations where it is proposed
- Image from the technical concept plan document

High-Visibility Crosswalks

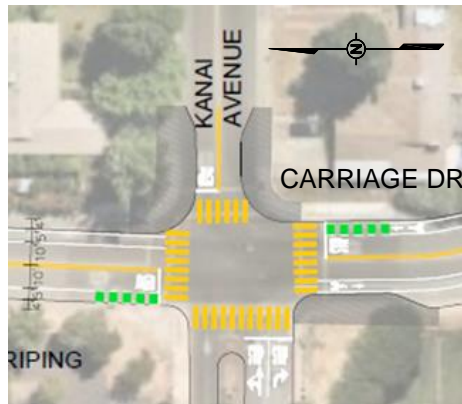


Benefits

- + Increases awareness of crossing location
- + Visible from further distances

Trade Offs

- Higher maintenance costs than typical crosswalks



High-visibility crosswalks are proposed at:

- Lauppe Lane mid-block
- Carriage Dr/Pratt Ave
- Carriage Dr/Pimienta Dr
- **Carriage Dr/Kanai Ave**
- Carriage Dr/Footman Way
- Carriage Dr/Kingsmen Ave
- Carriage Dr/Calvin Dr
- Carriage Dr/Midnight Way
- Carriage Drive Elementary School driveway

Curb Extensions

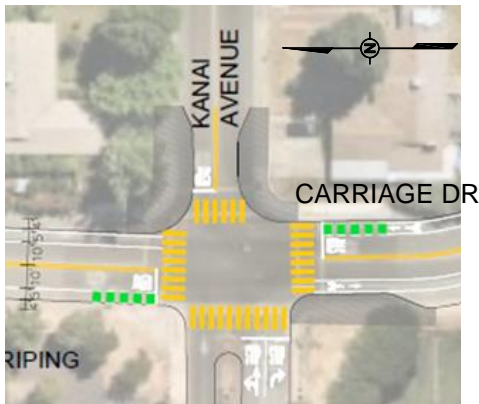


Benefits

- + Shortens distance to cross the street
- + Increases space for people to wait to cross
- + Increases visibility of people walking near corners
- + Slows vehicle turning movements

Trade Offs

- May result in small amounts of parking loss



Curb extensions are proposed at:

- Carriage Dr/Pratt Ave
- Carriage Dr/Pimienta Dr
- Carriage Dr/Calvin Dr
- Carriage Dr/Midnight Way
- < Carriage Dr/Kanai Ave**
- Carriage Dr/Auburn Blvd
- Carriage Dr/Footman Way
- Carriage Dr/Kingsmen Ave

Circular Intersections



Circular intersections are proposed at:

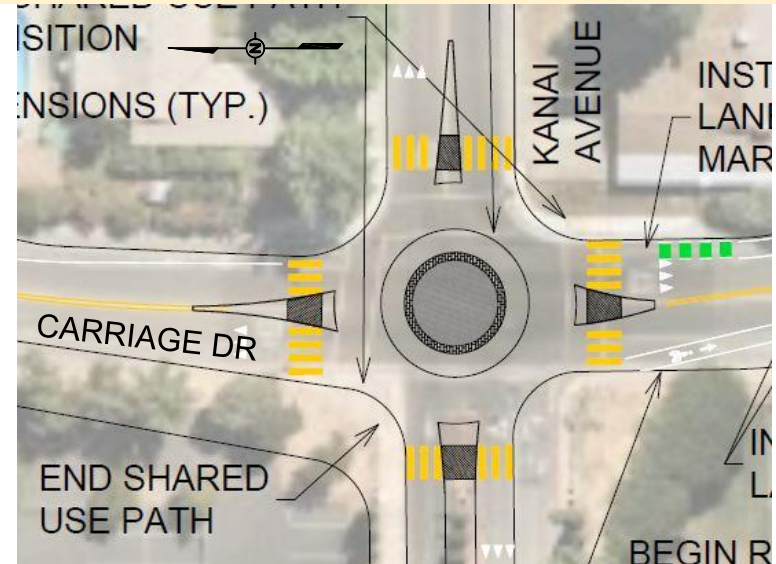
- **Carriage Dr/Kanai Ave**
- Carriage Dr/Pratt Ave

Benefits

- + Regulates traffic through intersections
- + Reduces speed through intersections
- + Allows for safe and predictable U-turns
- + Can include vegetation or public art

Trade Offs

- Can be unfamiliar to some drivers



Raised Roadway



Benefits

- + Reduces speed through roadway
- + Encourage people driving to yield to people walking

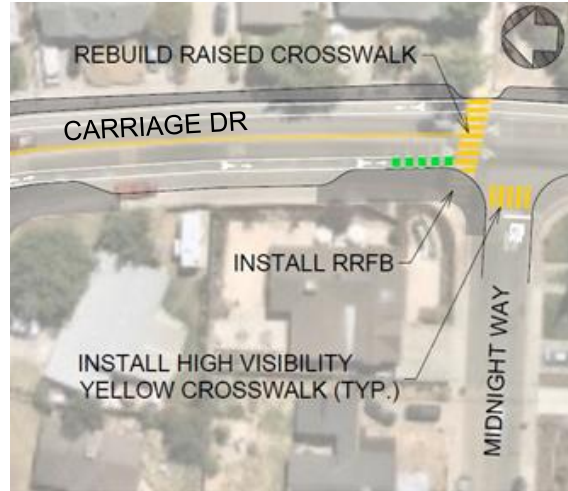
Trade Offs

- Expensive to install



A raised roadway is proposed at:
< Lauppe Lane Curve

Rectangular Rapid Flash Beacon (RRFB)



**An RRFB is proposed at the following location:
^ Carriage Dr/Midnight Way**

Benefits

- + Shown to increase driver yielding to people crossing the street
- + Irregular light flashing patterns generates greater responses from drivers
- + Lights only activate when the button is pushed, increasing effectiveness

Trade Offs

- Flashing lights may be visible from neighboring houses

Zoom Poll 3

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Q&A about the proposals so far

Overall, which of the following improvements do you support along the corridor?

- High visibility crosswalks
- Curb extensions
- Circular intersections
- Raised roadway on Lauppe Lane
- RRFB at the kiddie walk (Carriage and Midnight)
- I need more information about one or more of the proposed improvements

Speed Humps



Benefits

+ Slows vehicle speeds along corridors

Trade Offs

- May cause vehicles to divert to other neighborhood roadways to avoid speed humps
- May cause increase to emergency vehicle response times
- Causes an increase in engine noise as vehicles brake and accelerate at the humps

Speed humps are proposed at:

- Lauppe, south of Oak Grove Estates
- Carriage, north of Footman
- Carriage, north of Glass Slipper
- > **Carriage, south of Glass Slipper**



Green Conflict Markings



Conflict markings are proposed at:

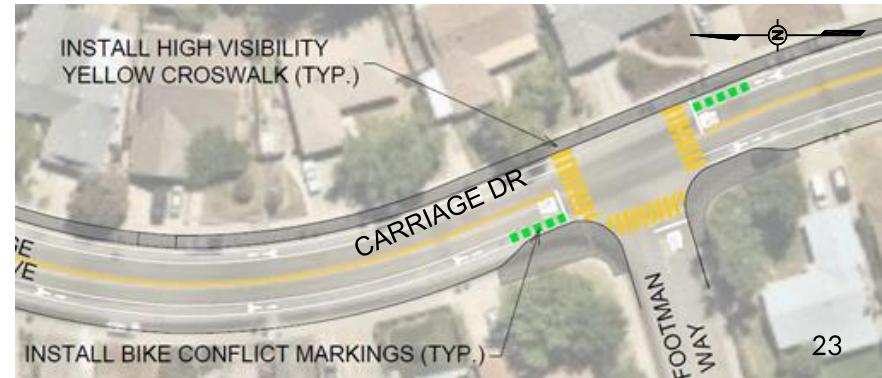
- Antelope/Lauppe
- Carriage/Kanai
- > **Carriage/Footman**
- Carriage/Kingsmen
- Carriage/Calvin
- Carriage/Midnight
- Carriage/Glass Slipper
- Carriage/Auburn
- School driveway

Benefits

- + Raises awareness for all road users of potential conflict areas
- + Increases visibility of people bicycling
- + Guides and makes bicycle movements more predictable

Trade Offs

- May be out of character in a neighborhood setting



Wider Sidewalks (on Auburn)

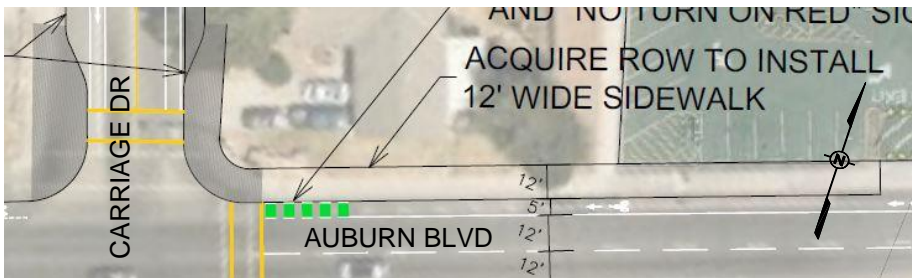


Benefits

- + Provides a dedicated off-street space for people walking and young children bicycling
- + Additional width is able to handle school-related surge volumes
- + Allows for easier movement of strollers and wheeled bags

Trade Offs

- Will require small right-of-way acquisition



Wider sidewalks are proposed along:

- Carriage Drive (east side, north of Footman to Auburn)

< **Auburn Boulevard (south of Carriage)**

Vertical Curbs



Vertical Curbs are proposed along:

- Carriage Drive
- Lauppe Lane

Benefits

- + Limits vehicle encroachment on the sidewalk, which increases space for people on the sidewalk and improves visibility of sidewalk users
- + Additional protection of people on sidewalk with creation of a vertical barrier

Trade Offs

- May reduce parking capacity due to limited roadway width

Zoom Poll 4

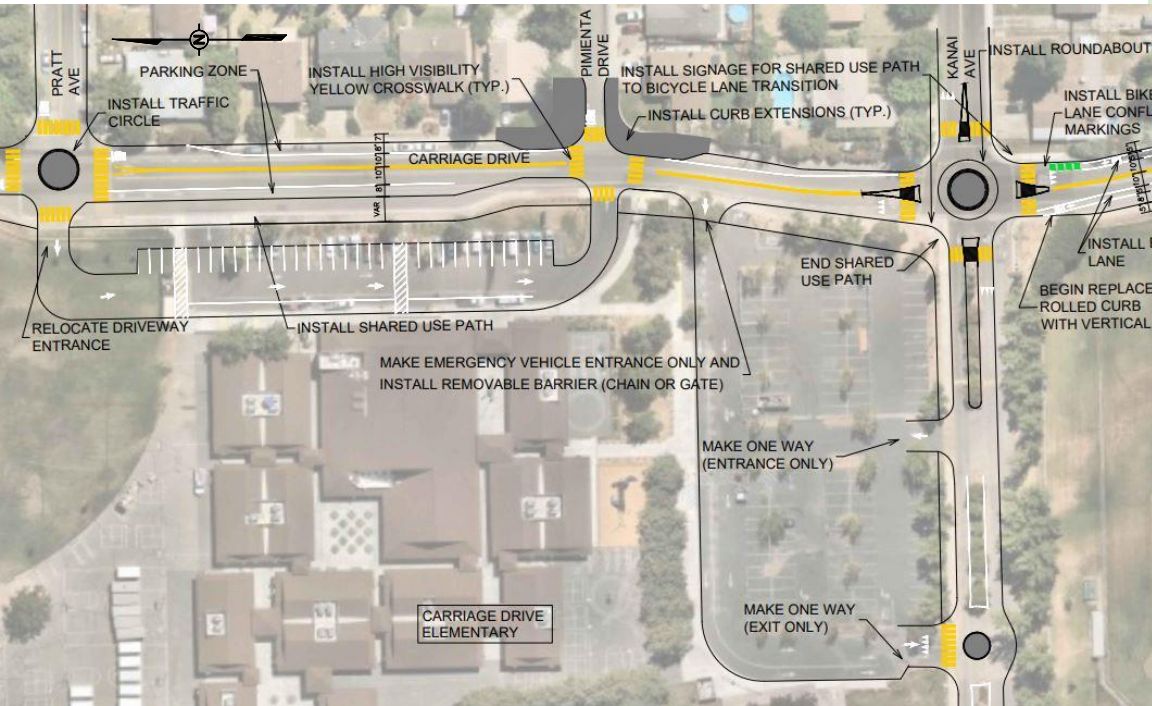
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Q&A about the proposals so far

Overall, which of the following improvements do you support along the corridor?

- Speed humps
- Green conflict markings
- Wider sidewalk on Auburn
- Vertical curbs
- I need more information about one or more of the proposed improvements

School On-Site Circulation (Carriage/Mesa)



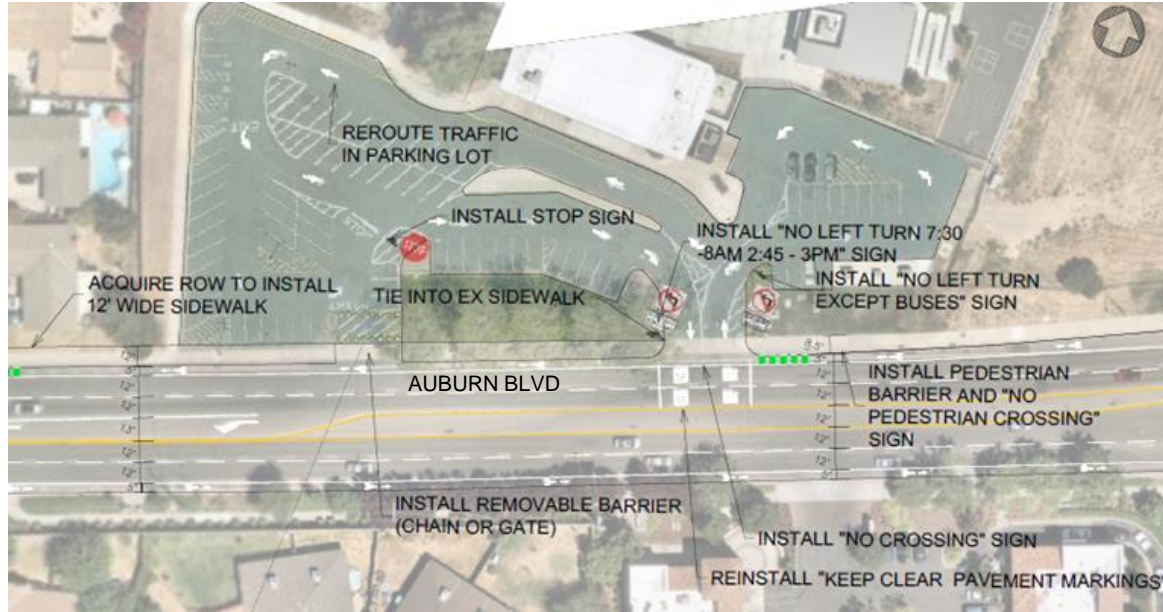
Benefits

- + Reduces driveway conflicts
- + Improves pedestrian visibility at primary exit driveway
- + Traffic circles can better accommodate surge vehicle volumes

Trade Offs

- May make some driving routes slightly longer
- Pratt Avenue extension adds expense

School On-Site Circulation (Sylvan Middle)



Benefits

- + Creates one-way traffic flow
- + Reduces conflicts within the parking lot
- + Improves entrance/exit flow
- + Reduces driveway conflicts
- + Moves driveway farther from intersection
- + Increases storage/queuing in the parking lot, reducing potential backup onto Auburn Boulevard

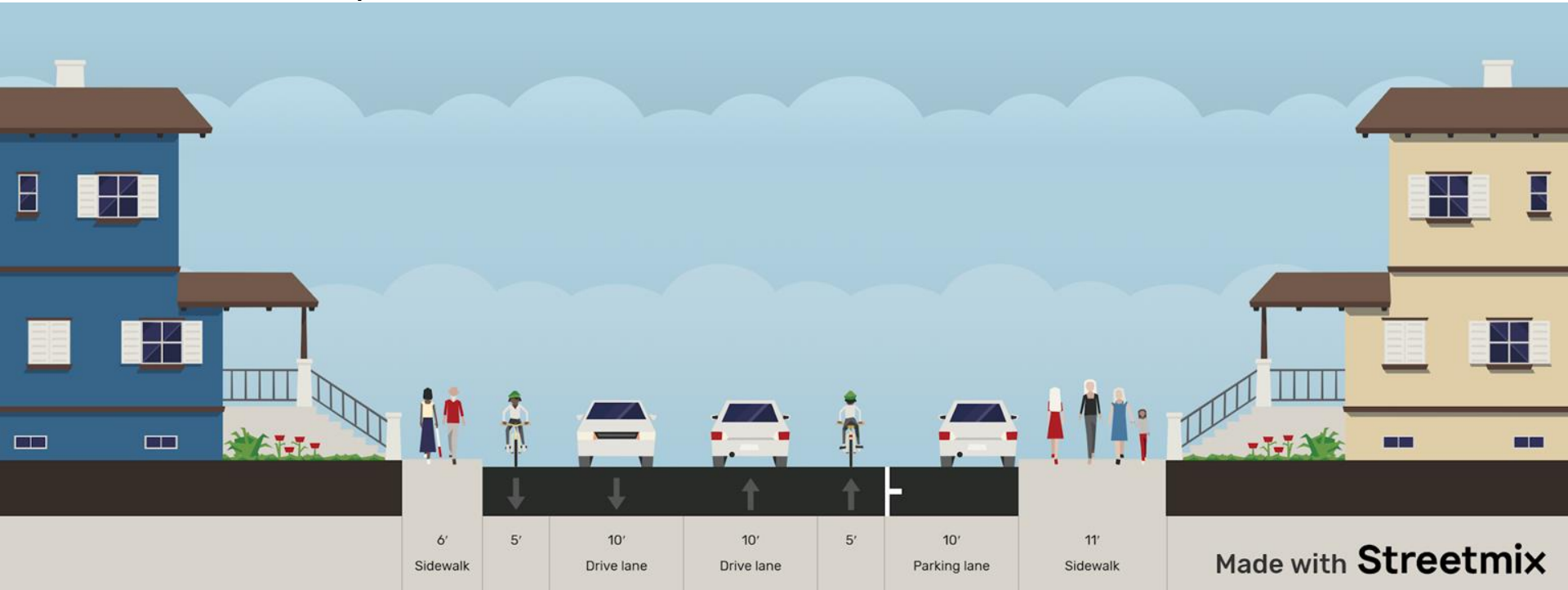
Lauppe Lane (Antelope Rd to Pratt Ave)

Currently, Lauppe Lane has two driving lanes, two parking lanes, and two sidewalks. There are no bicycle facilities.



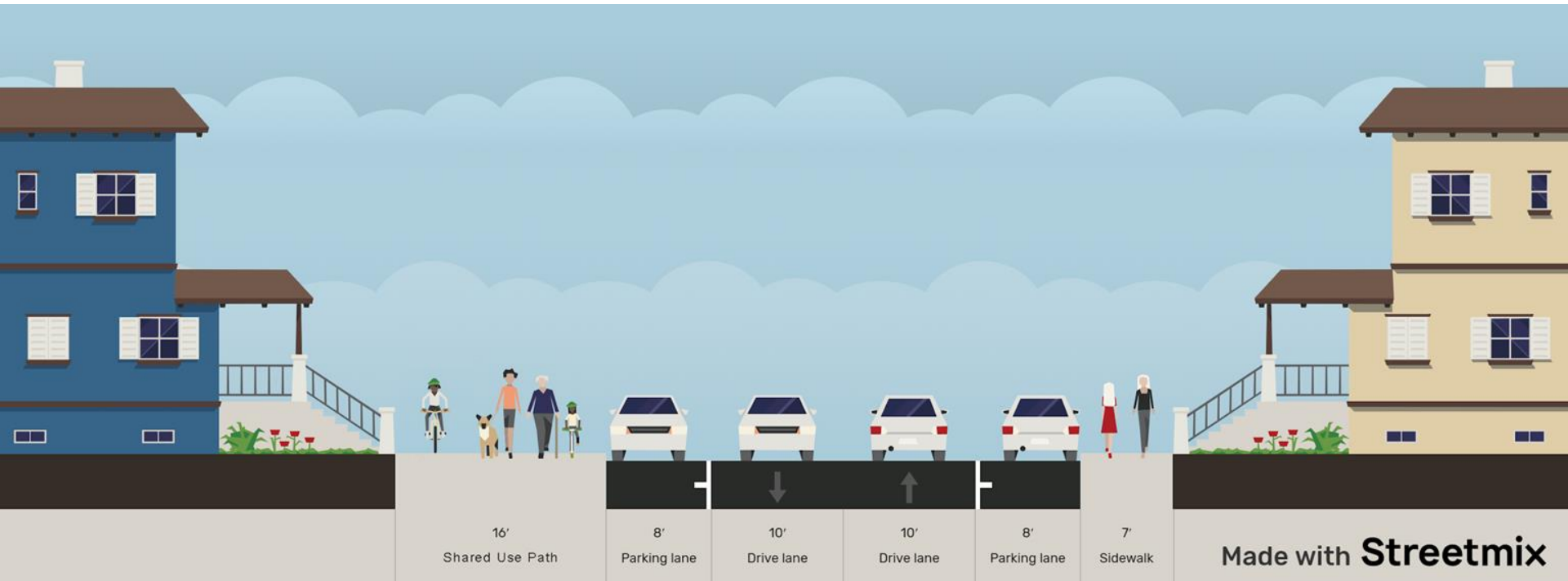
Lauppe Lane (Antelope Rd to Pratt Ave)

Alternative 1 is to add bicycle lanes in each direction. The sidewalk would be narrower in some portions and wider in others. Parking would be removed on the west side north of Oak Grove Estates (pictured) and maintained south of Oak Grove Estates.



Lauppe Lane (Antelope Rd to Pratt Ave)

Alternative 2 maintains both driving lanes and parking lanes. It adds a shared use path that can be used both by people walking and bicycling to the west side of the street.



Lauppe Lane (Antelope Rd to Pratt Ave)

Alternative 1: Bicycle Lanes



Benefits

- + Provides roadway space for people biking
- + Some widened sidewalk provides additional space for people walking and

Trade Offs

- Removes some parking
- Bicycle lane in road may not be used by some students and families

Alternative 2: Shared Use Path



Benefits

- + Provides a low-stress, off-street facility for people to bicycle and walk
- + Minimizes vehicle conflicts with people bicycling and walking

Trade Offs

- More expensive to construct, and may take more time to implement

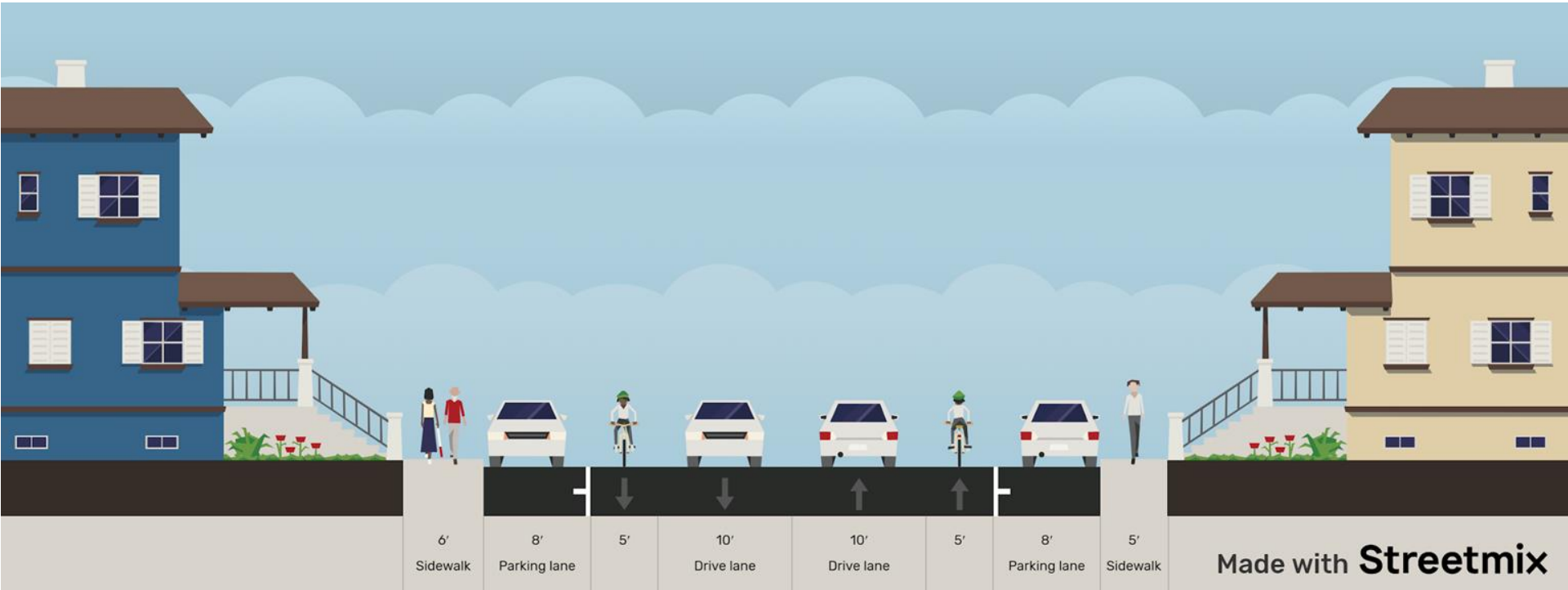
Carriage Drive (Kanai Ave to Auburn Blvd)

Currently, Carriage Drive has two driving lanes, two parking lanes, two sidewalks, and two bicycle lanes. The bicycle lanes and sidewalks are narrower than the recommended width to accommodate students walking and bicycling.



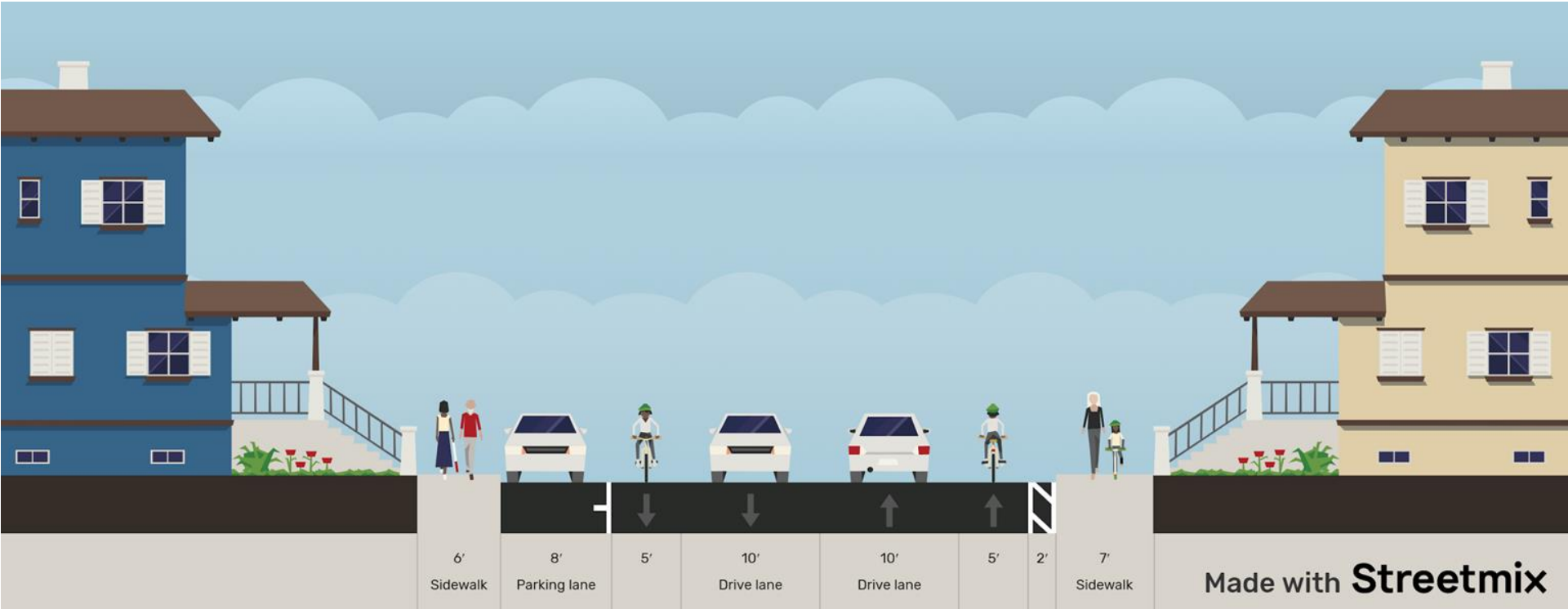
Carriage Drive (Kanai Ave to Auburn Blvd)

Alternative 1 is to slightly widen the bicycle lanes in each direction. Driving and parking lanes are slightly narrowed. Sidewalks are unchanged.



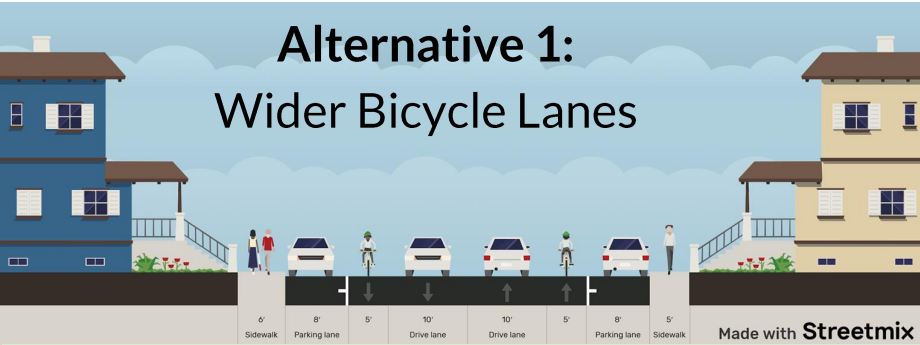
Carriage Drive (Kanai Ave to Auburn Blvd)

Alternative 2 is to slightly widen the bike lanes and significantly widen the sidewalk on the east side. Driving lanes are slightly narrowed. Parking on the east side is removed.



Carriage Drive (Kanai Ave to Auburn Blvd)

Alternative 1: Wider Bicycle Lanes



Benefits

- + Narrowed driving lanes help slow speeds
- + Widened bicycle lanes meet standards
- + Parking retained on both sides

Trade Offs

- Bicycle lane in road may not be used by some students and families
- Sidewalks remain narrow

Alternative 2: Wider Sidewalk



Benefits

- + Wide sidewalk accommodates large groups of students walking and children on bicycles
- + Minimizes vehicle conflicts with people bicycling and walking
- + Narrowed driving lanes help slow speeds

Trade Offs

- Parking is removed on one side of the street

Zoom Poll 5

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Q&A about the proposals so far

Overall, which of the following improvements do you support along the corridor?

- Circulation changes at Carriage Drive/Mesa Verde
- Circulation changes at Sylvan
- Bicycle lanes on Lauppe Lane
- Shared use path on Lauppe Lane
- Wider bicycle lanes on Carriage Drive
- Wider sidewalk on Carriage Drive
- I need more information about one or more of the proposed improvements

Carriage Drive/Lauppe Lane Safe Schools Corridor Plan Survey

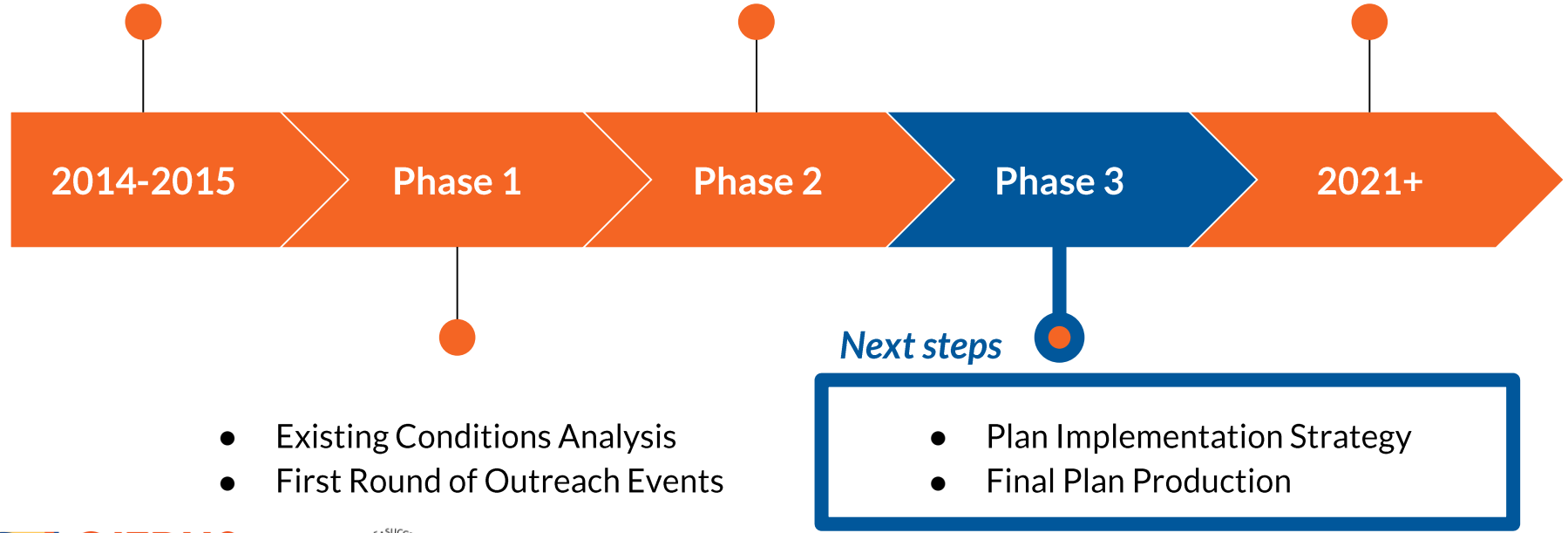
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- Existing Conditions Analysis
- First Round of Outreach Events



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Thank you all for coming! Please share the survey with your friends, family, and community.

Now is time for open Q & A.

Additional questions?

CLSSCP@citrusheights.net