

Transportation Planning Division

**CHULUOTA ROAD (CR 419)
RCA STUDY**

Recommended Concept Public Meeting

December 5, 2022



Welcome and Opening Remarks



Emily Bonilla
District 5 Commissioner



Ways to Provide Feedback

Orange County Project Contact:
 Blanche Hardy, Project Manager
 Community, Environmental and
 Development Services
 Transportation Planning Division
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 Orlando, FL 32839
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Consultant Project Contact:
 Greg Smith, PE
 JMT
 400 Colonial Center Pkwy
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 Lake Mary, FL 32746
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 Phone: (321)-217-9467



Call or Email (website,
www.chuluotarca.com newsletter
 and this presentation)



Chuluota Road (CR 419) Roadway Conceptual Analysis (RCA) SR 50 to Lake Pickett Road

Public Comment Form

Name _____ Phone _____
 Address _____
 City _____ State _____ Zip Code _____

Check here to be added to the project mailing list.

Please use this comment form to express your opinions regarding the planned improvement (widening) of Chuluota Road from SR 50 to Lake Pickett Road. You can leave your completed form in the comment box at this meeting, with a member of the project team today or mail it, postmarked by Saturday, October 15, 2022, to the address below. All comments are part of the project record and are available for viewing by the public and media.

Comments: _____

Please mail comment form to:
 Ms. Blanche Hardy, P.G.
 Orange County Project Manager
 Community, Environmental & Development Services
 Transportation Planning Division
 4200 South John Young Pkwy
 Orlando, FL 32839
 E-mail: blanche.hardy@ocfl.net
 Telephone: 407-836-0257

Public Meeting
 Tuesday, September 20, 2022
 5:30 p.m.
 Presentation at 6:00 p.m.
 East River High School Cafeteria
 650 E. River Falcons Way
 Orlando, Florida 32833
 Project website: www.chuluotarca.com



Ways to Provide Feedback

Meeting Instructions

- The presentation will be followed by a question-and-answer period.
- If you would like to speak, please fill out a comment card. Comments will be addressed in the order they are received.
- Comment forms are available at the sign in desk.
- If you received a newsletter, you are on the project mailing list. If you did not, please sign in and provide your address to be added to the mailing list.

Reams Road Roadway Conceptual Analysis (RCA) Study Summerlake Park Boulevard to Taborfield Avenue

Public Comment Form

Name _____ Phone _____

Address _____

City _____ State _____ Zip Code _____

Check here to be added to the project mailing list.

Please use this comment form to express your opinions regarding the planned improvement (widening) of Reams Road from Summerlake Park Boulevard to Taborfield Avenue. You can leave your completed form in the comment box at this meeting, with a member of the project team today or mail it, postmarked by Tuesday, December 26, 2017, to the address below. All comments are part of the project record and are available for viewing by the public and media.

Comments: _____

Date: 11/2/22 **Speaker Request Card** Number

To be completed prior to making a recorded statement
COMMUNITY MEETING
November 2, 2022
Innovation Way South – Moss Park Road to Sunbridge Parkway
Preliminary Design Study
Moss Park Road to Sunbridge Parkway
Orange County, Florida

Name: _____
Last First Middle Initial

Address: _____
Street

_____ City State Zip Code

Telephone: (____) _____

Representing: Self _____ Firm _____ Government Agency _____
 Civic Organization _____ HOA _____
 Other _____

Community Meeting
 Wednesday, December 13, 2017
 6 - 8 p.m.
 Presentation at 6:30 p.m.
 Bridgewater Middle School
 Media Center
 5600 Tiny Road
 Winter Garden, Florida 34787-9202



Presentation Outline

- **Overview**
- **Existing Conditions**
- **Recommended Improvements**
- **Public Engagement & Schedule**
- **Public Comment**



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Overview

Identify Improvements:

- Document Project Need
- Balance Needs of all users
 - Safety
 - Mobility
 - Comfort
 - Connectivity



Automobiles



Pedestrians



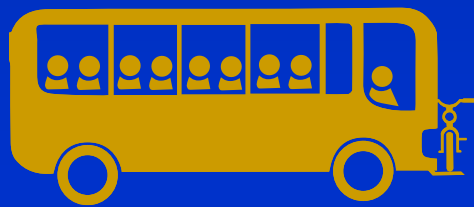
Cyclists



Freight



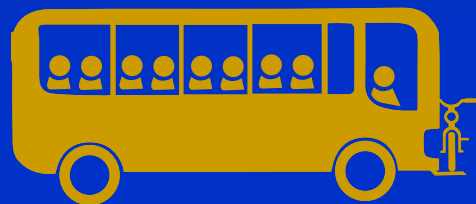
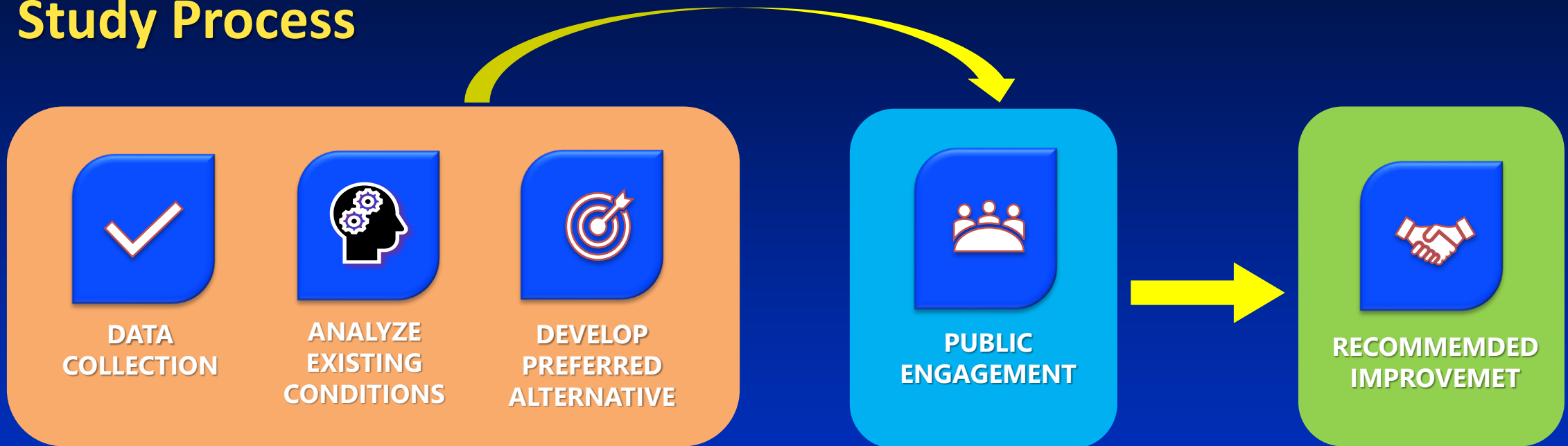
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Overview

Study Process





Overview

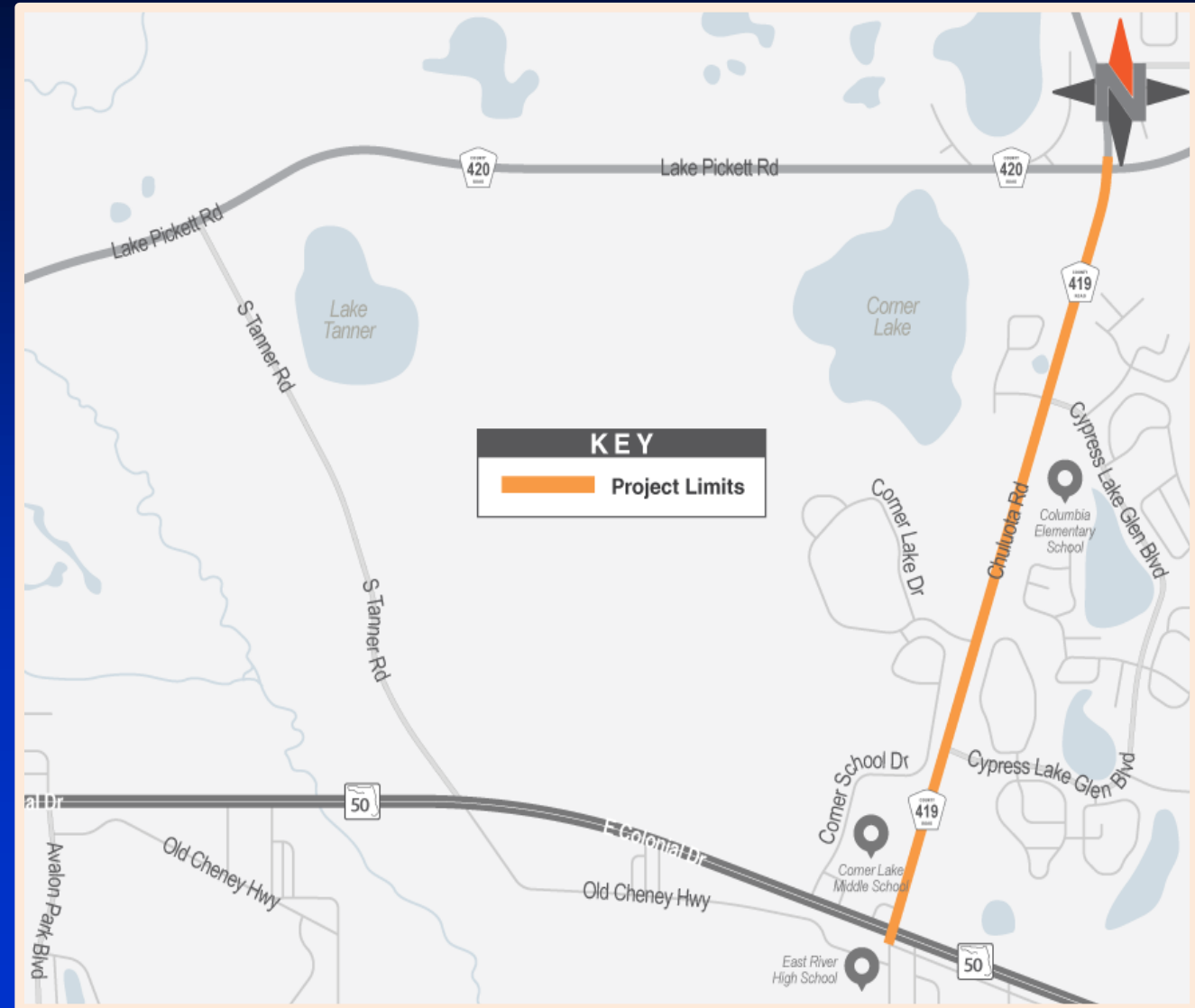
Project Location





Overview

- The study begins at SR 50 and extends to Lake Pickett Road, a distance of 1.9 miles
- The corridor primarily consists of residential developments with commercial activity concentrated near SR 50
- Chuluota Road improvement is in Orange County's Long Range Transportation Plan





Presentation Outline

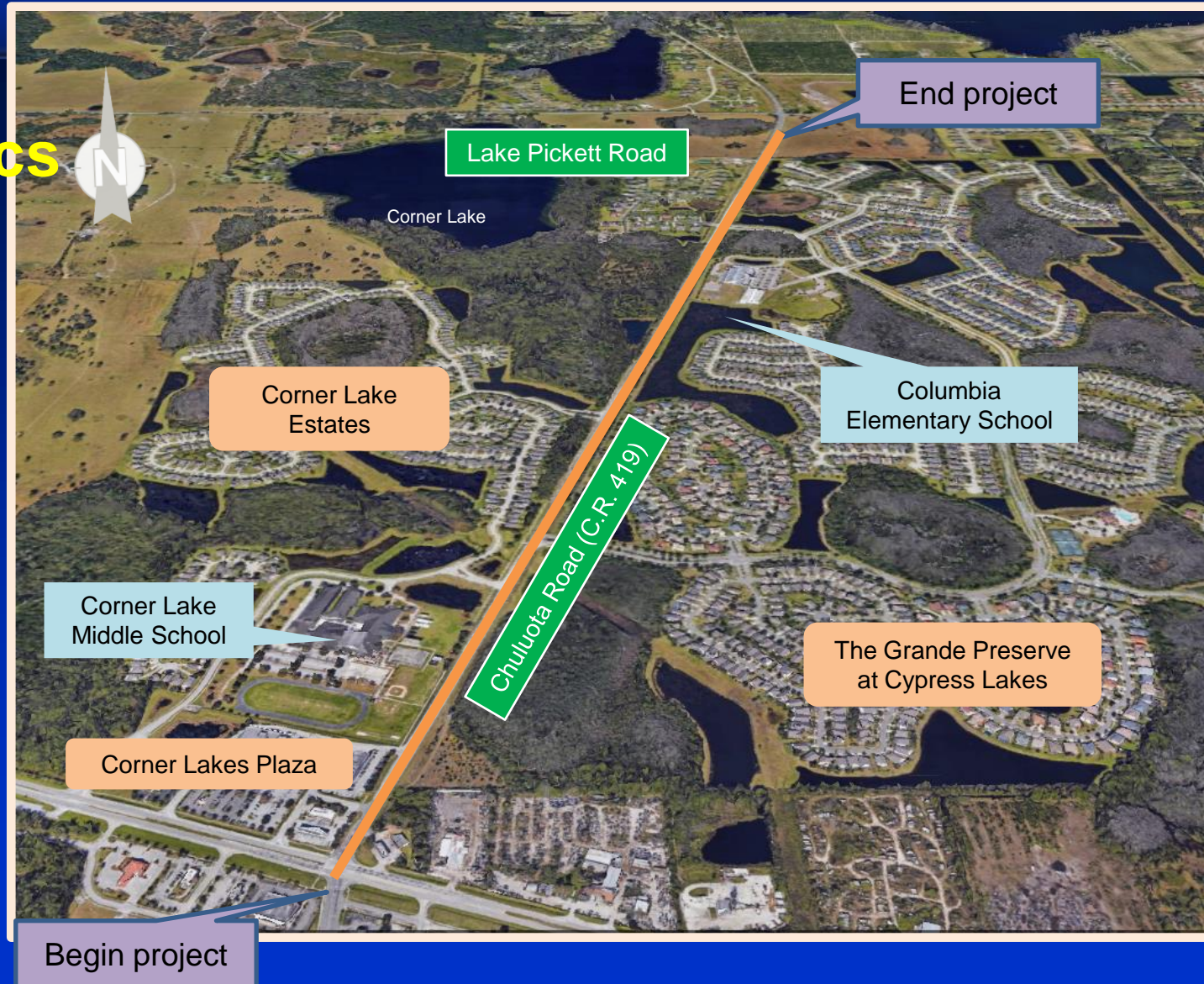
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Existing Conditions

Chuluota Road Characteristics

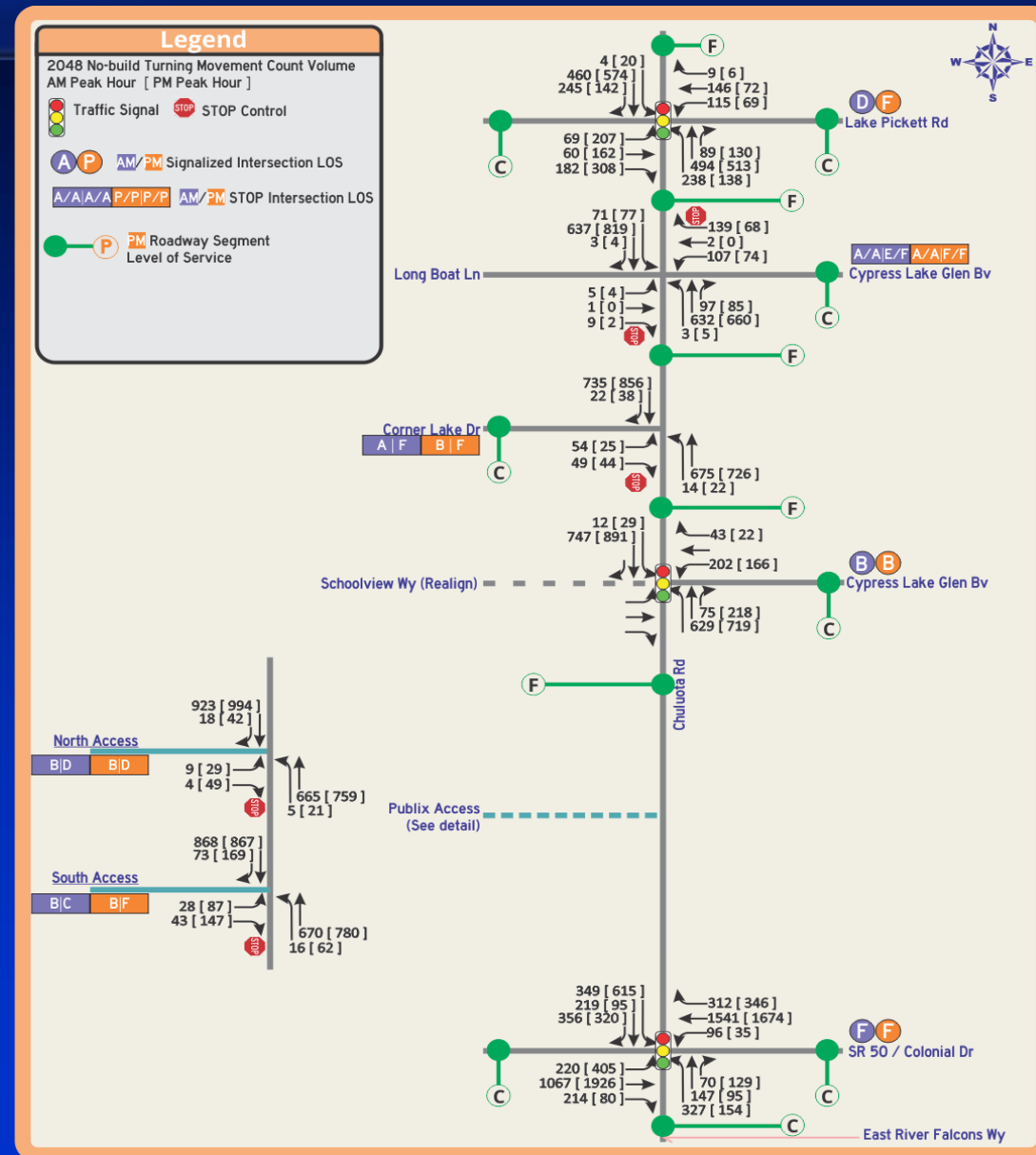
- Two-lane roadway with flush paved shoulders
- Open ditch drainage with no stormwater ponds
- Sidewalks are present along portions of the project
- The existing right of way varies from 100 to 130 feet





Existing Conditions

- Traffic volumes range from 11,500 to 15,400 vehicles per day
- Segments of Chuluota Road are currently operating at a Level of Service F.
- By Year 2048, all of Chuluota Road is expected to operate at Level of Service F, resulting in severe congestion if no improvements occur





Existing Conditions

Study Intersections	Pedestrian Volumes						Bicycle Volumes						Combined Volumes					
	AM 6:00-9:00		MID-DAY 12:00-2:00		PM 4:00-7:00		AM 6:00-9:00		MID-DAY 12:00-2:00		PM 4:00-7:00		AM 6:00-9:00		MID-DAY 12:00-2:00		PM 4:00-7:00	
	Major	Minor	Major	Minor	Major	Minor	Major	Minor	Major	Minor	Major	Minor	Major	Minor	Major	Minor	Major	Minor
Chuluota Road																		
Lake Pickett Road	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1
Long Boat Lane/Cypress Lake Gl Blvd (N)	2	6	0	1	2	4	3	2	1	0	6	2	5	8	1	1	8	6
Corner Lake Drive	0	3	0	2	0	4	3	2	1	0	6	2	3	5	1	2	6	6
Cypress Lake Gl Blvd (S)	12	3	20	1	12	6	10	0	3	1	5	0	22	3	23	2	17	6
Corner Lake Plaza (Both Driveways)	0	5	0	20	0	9	1	11	0	1	0	3	1	16	0	21	0	12
SR 50	4	16	7	52	1	3	3	9	2	8	3	2	7	25	9	60	4	5



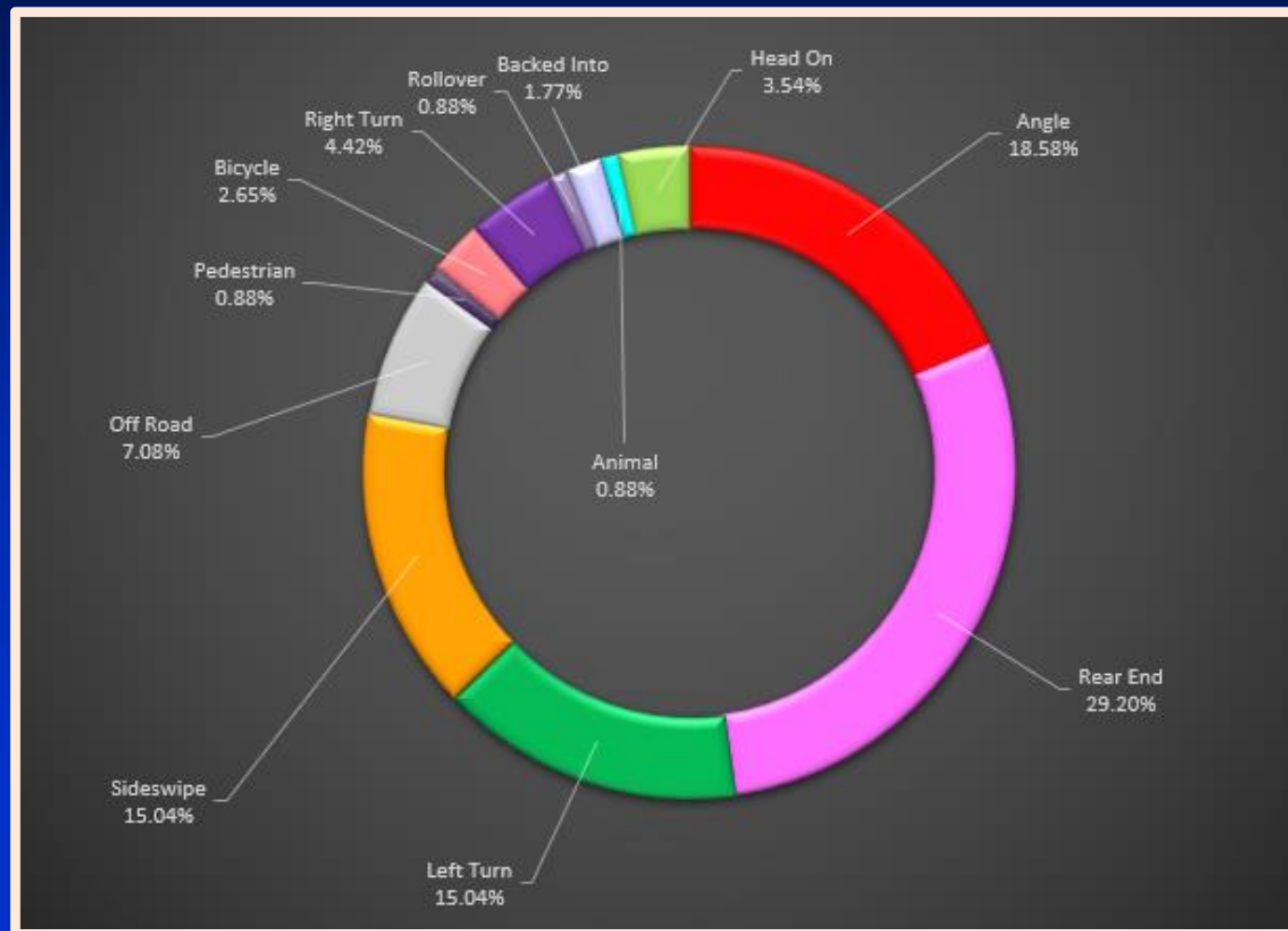


Existing Conditions

Crash History

Five-Year Period 2016 – 2020:

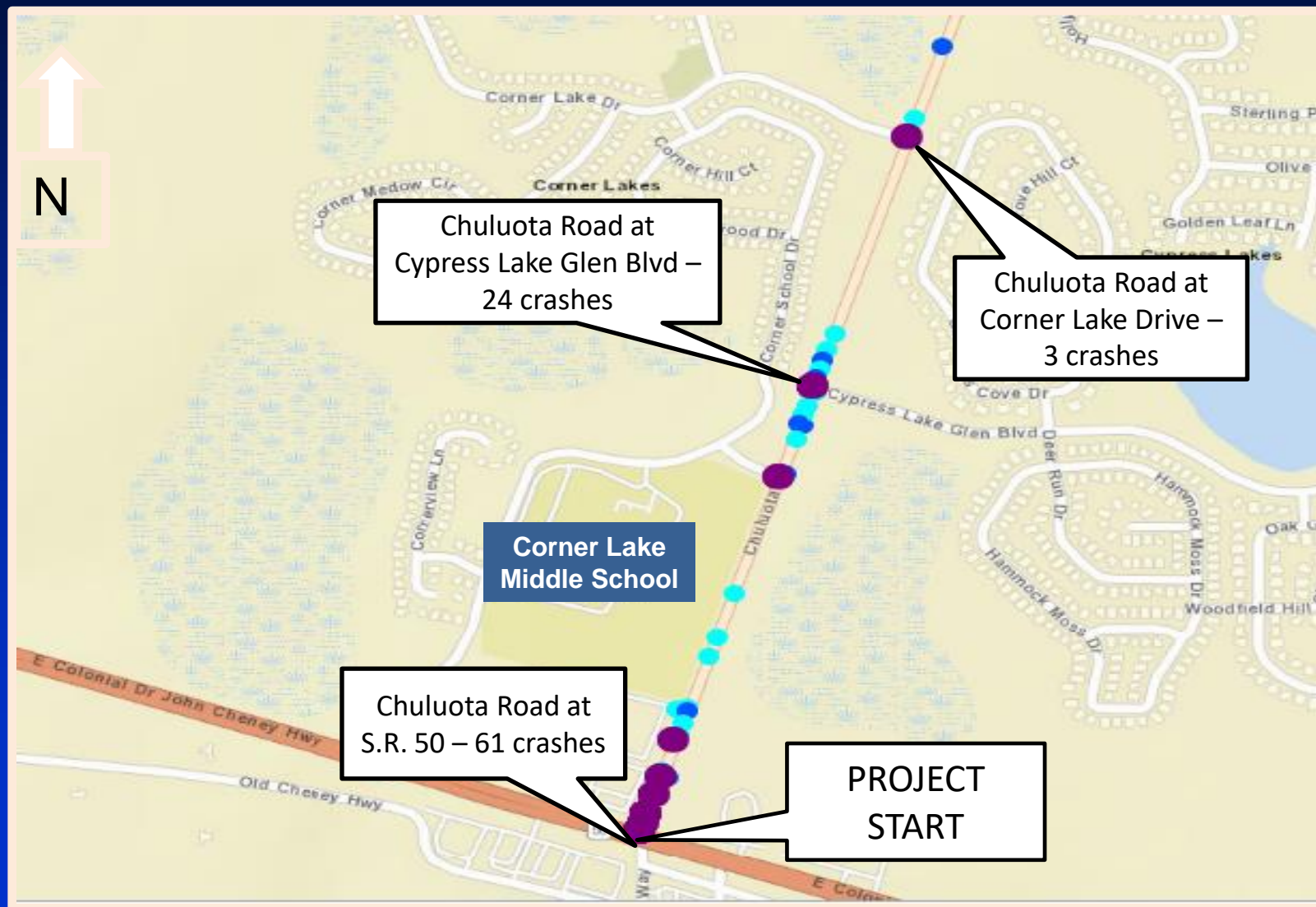
- 113 Total Crashes
- 36 Injury Crashes
- 77 Property Crashes
- No Fatalities
- One Pedestrian Crash
- Three Bicycle Crashes





Existing Conditions

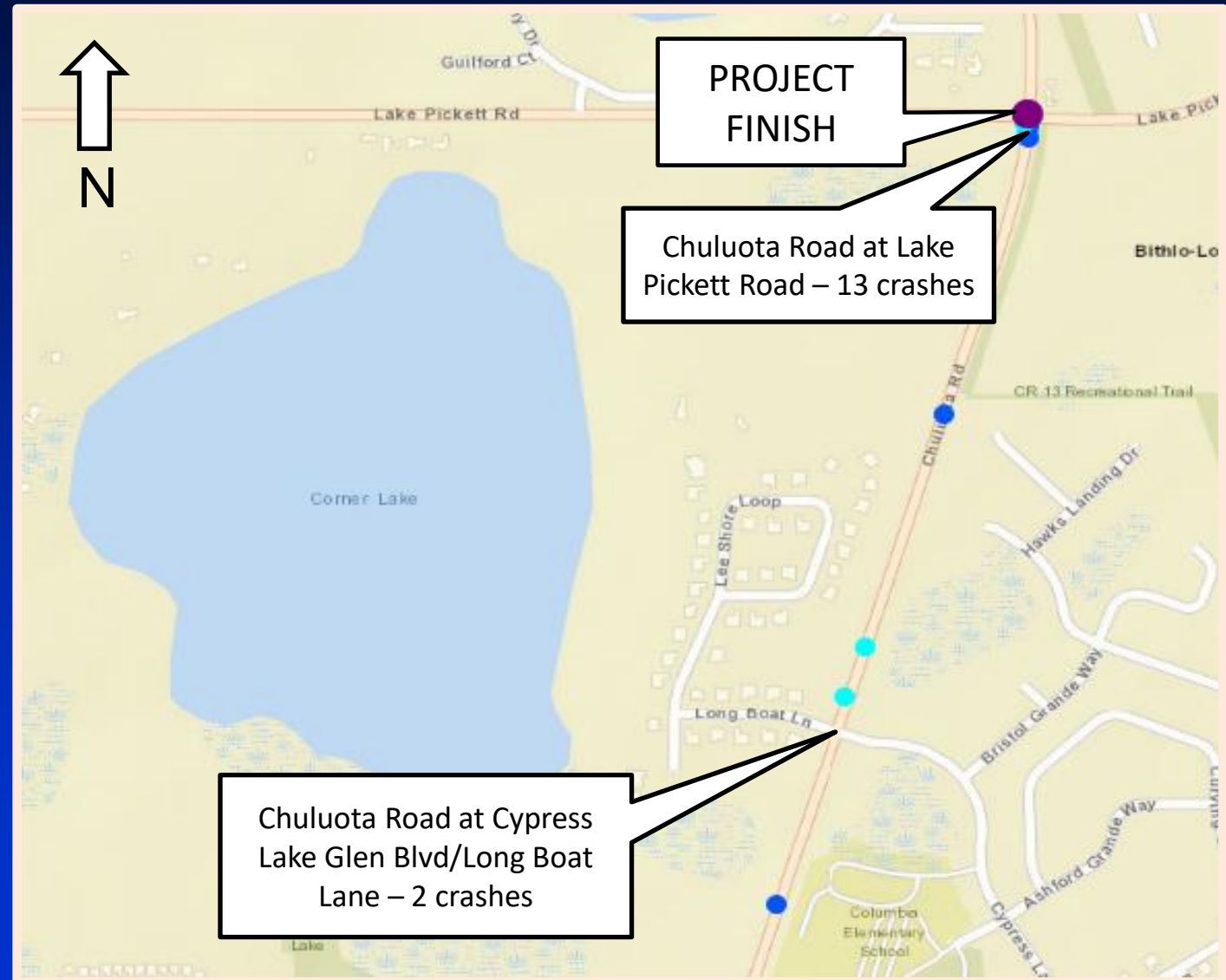
Crash History – South Section (2016-2020)





Existing Conditions

Crash History – North Section (2016-2020)





Recommended Improvements

Environmental Assessment

- Wetland impacts expected to be minimal
- Riparian Habitat Protection Zone (RHPZ) impacts expected to be minimal
- Habitat supporting flora and fauna species of concern including Gopher tortoise, snail kite, Florida sandhill crane, wood stork, little blue heron, tri-colored heron, and American alligator is present in the vicinity of the corridor
- Species counts will be performed during design
- No Impacts to potential high or medium risk contamination sites





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Recommended Alternative

Context Classification C3C Suburban Commercial and C3R Suburban Residential



Allows for 40 mph Design Speed According to Context
Allows the Creation of Project Specific Transition Zones
Facilitates Shared Use Path for Pedestrian and Bicycle Traffic



Recommended Alternative

STRATEGIES TO ACHIEVE DESIRED OPERATING SPEED FOR ARTERIALS AND COLLECTORS

CONTEXT CLASSIFICATION	DEIGN SPEED (MPH)	STRATEGIES
C3R	45-55	ProJet Specific Transition Zone
	40-45	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, RRFBs, and PHBs
	35	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, Islands in Crossings, Road Diet, RRFBs, and PHBs, Terminated Vistas
C3C	40-45	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, Rectangular Rapid Flashing Beacons (RRFB), and Pedestrian Hybrid Beacons (PHB)
	35	Roundabout, Lane Narrowing, Horizontal Deflection, Speed Feedback Signs, Median Islands in Crossings, Road Diet, RRFB and Hawk, Terminated Vistas

Included in the Study:

- Horizontal Deflection addressed by Horizontal Curves
- Street Trees
- Curb/Gutter, Medians
- Lane Narrowing

Determined in Design:

- Median Island Crossings

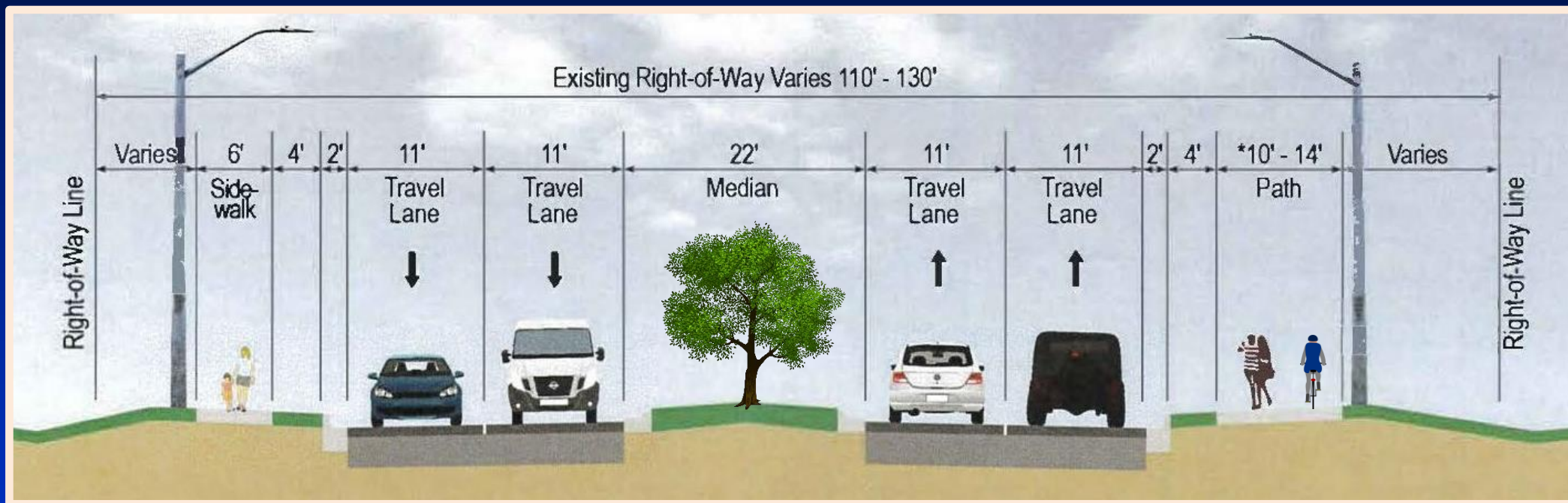
Post Construction as Indicated by Pedestrian and Bicyclist Use Patterns

- Speed Feedback Signs
- Textured Surfaces
- Mid-Block Crossings
- Speed Tables / Raised Intersections
- RRFBs, PHBs, Hawk



Recommended Improvements

Typical Section Elements From Cypress Lake Glen Boulevard to Lake Pickett Road



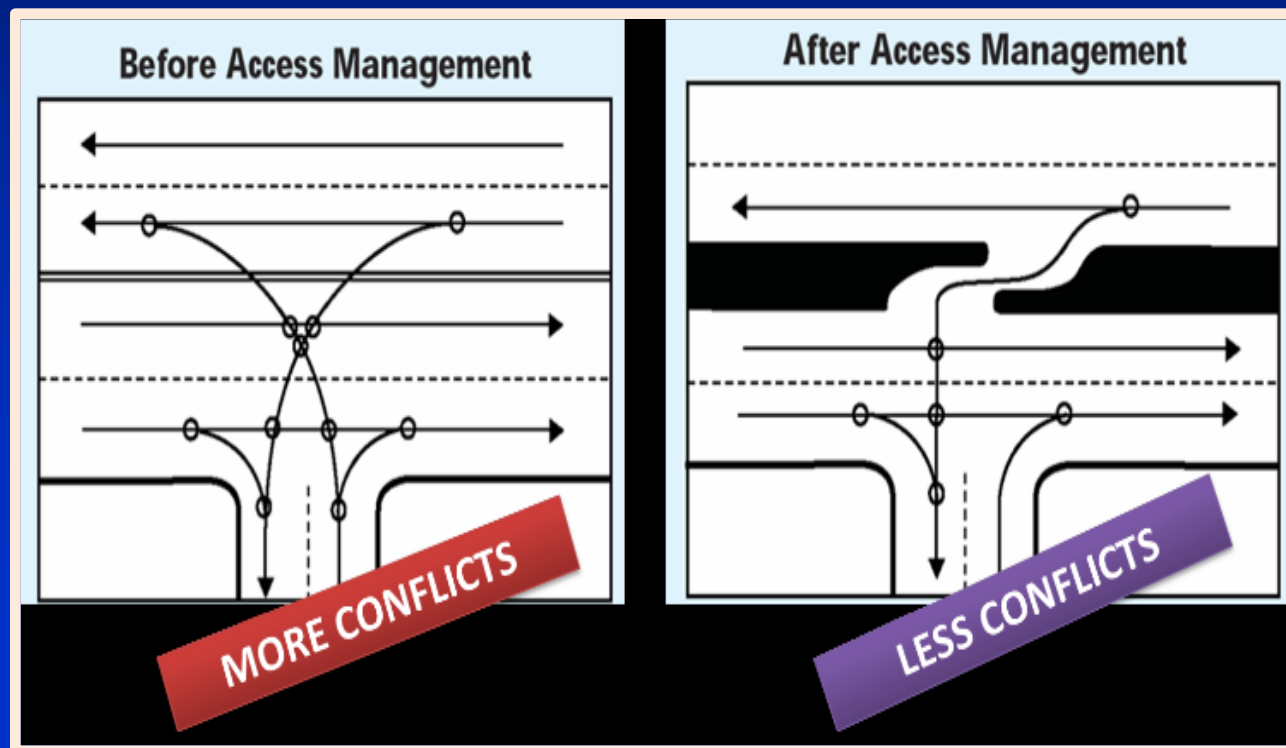
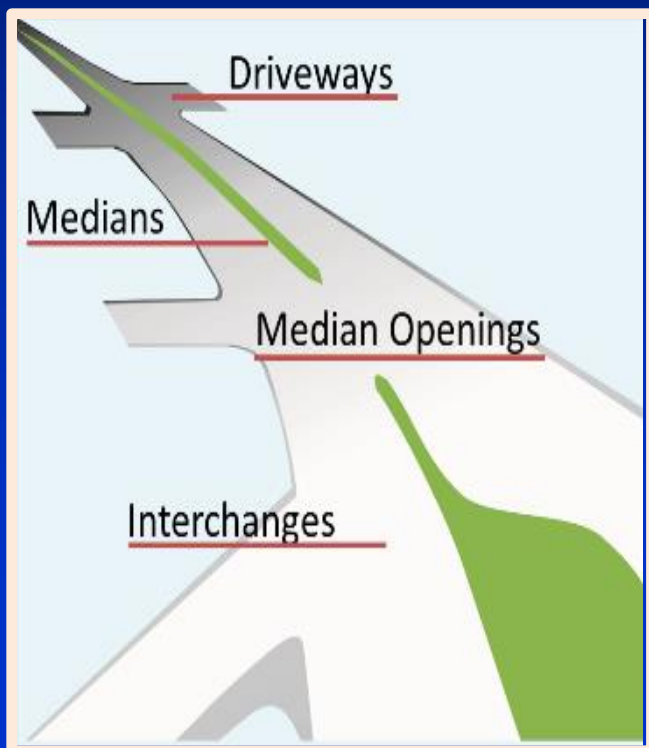
- Four 11-foot-wide travel lanes (two each direction) with 22-foot raised median
- Multi-modal accommodations consisting of 6-foot-wide sidewalk on west side, and 10- to 14-foot-wide path on the east side of Chuluota Road
- Closed drainage system with stormwater treatment ponds
- Nominal 120' right-of-way required which can be accommodated within the existing right-of-way



Recommended Improvements

Access Management

- Access management is the careful planning of the location, type and design of access.
- More conflict points means more crashes

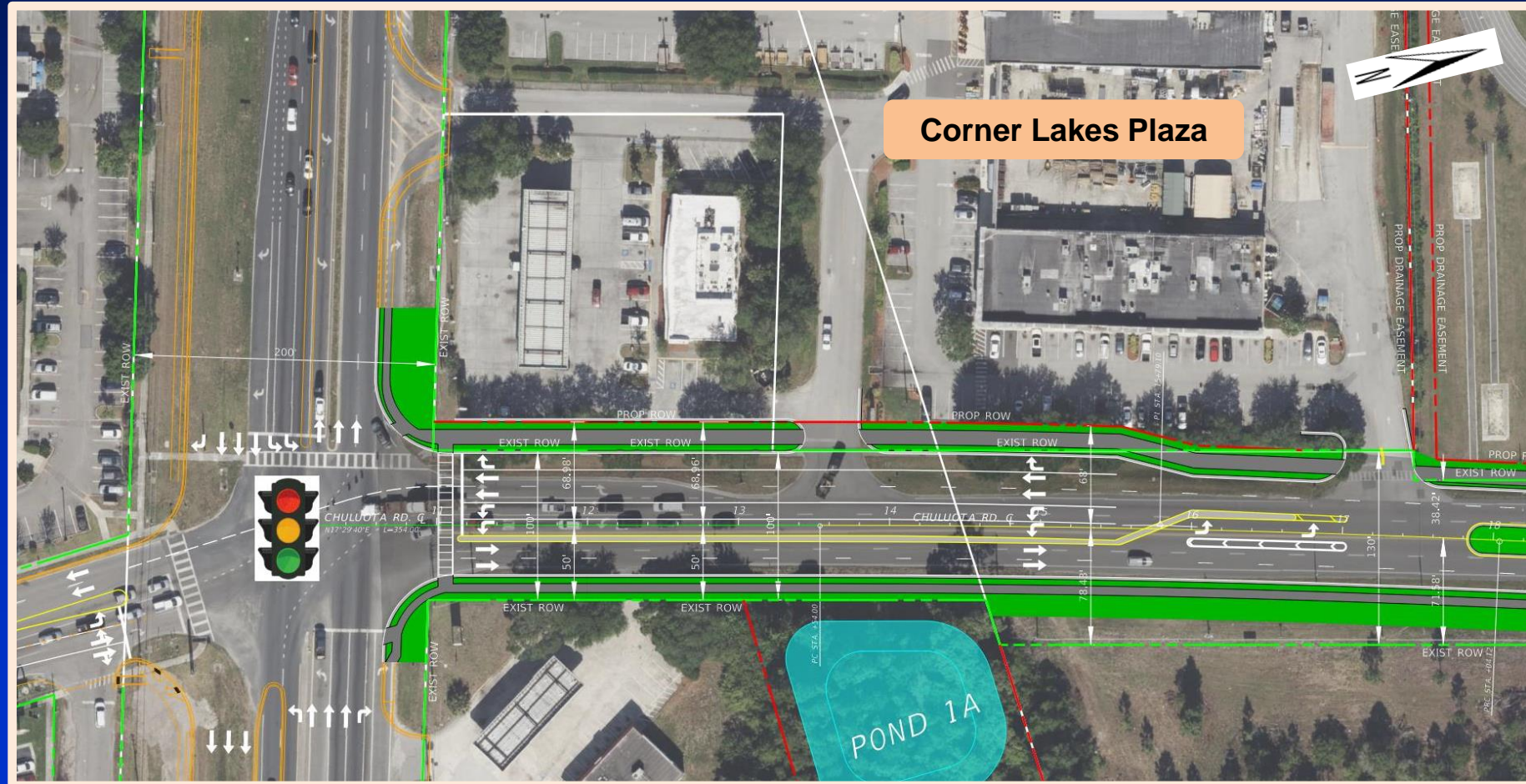




Recommended Improvements

Access Management Changes at Corner Lake Plaza

- Only right-in, right-out movements will be provided at the south driveway to Corner Lakes Plaza given the close proximity to SR 50
- Full access to Corner Lakes Plaza will be provided at the north driveway to accommodate shopping center movements

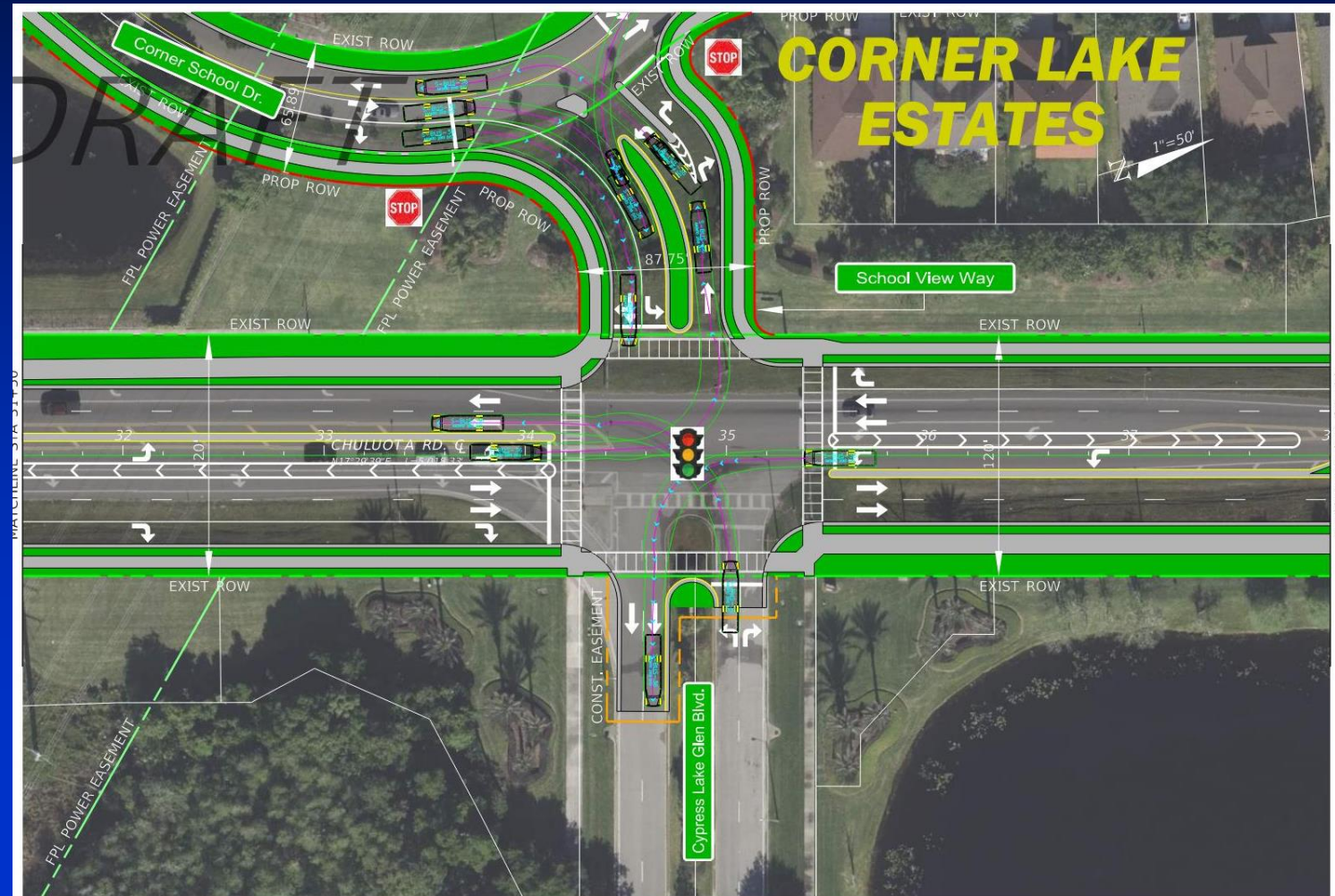




Recommended Improvements

Changes at Cypress Lake Glen Boulevard

- Provide new westerly connection to Corner School Drive at the signalized Cypress Lake Glen Boulevard Intersection
- Improves access to Corner Lake Middle School
- Improves operations along Chuluota Road

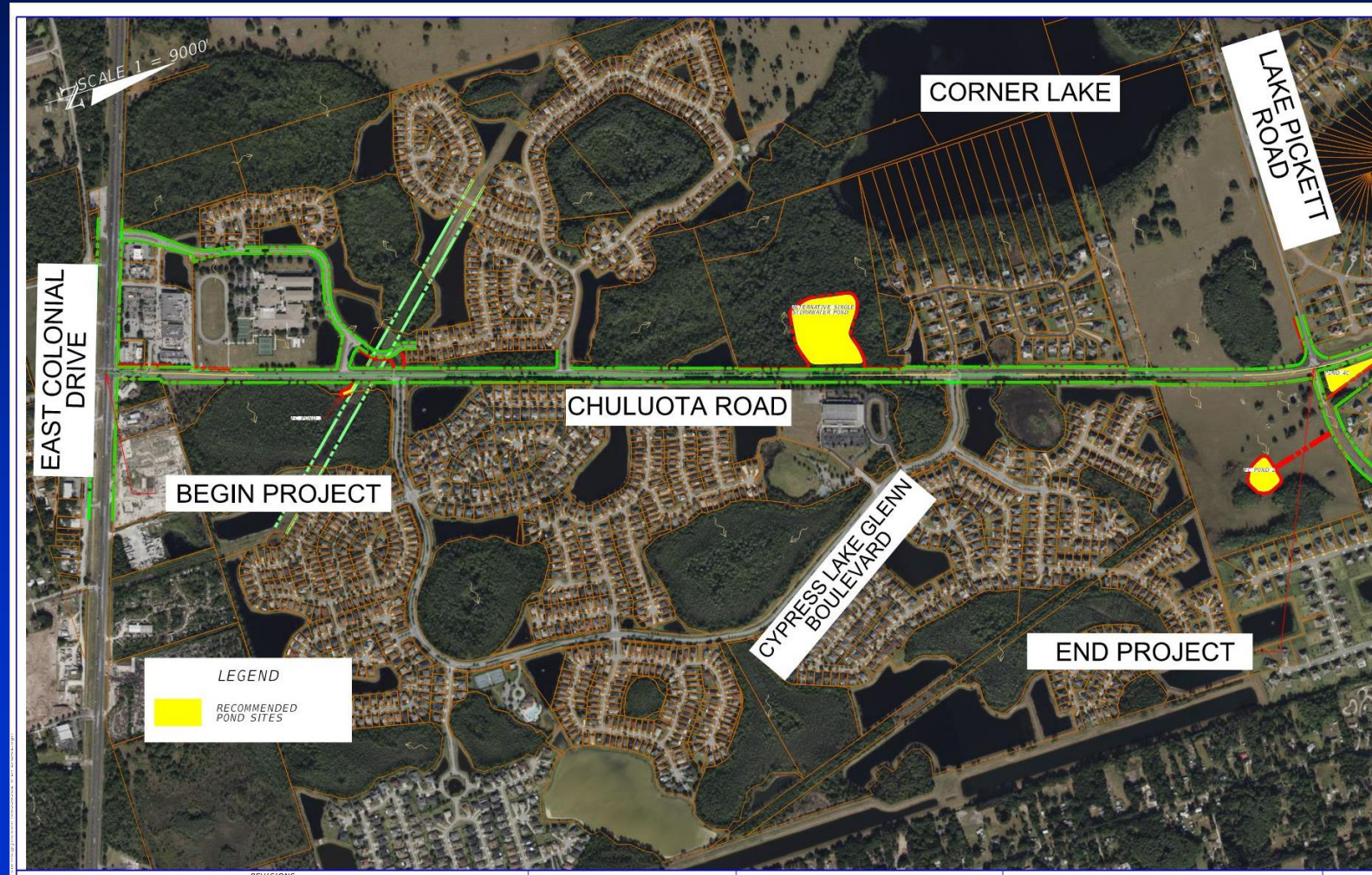




Recommended Improvements

Recommended Pond Sites

- Two preferred stormwater ponds
- Two preferred floodplain compensation ponds





Recommended Improvements

Evaluation Matrix

Chuluota Road RCA From SR 50 to Lake Pickett Road Alternatives Evaluation Matrix		
	No-Build Alternative	Preferred Alternative
Evaluation Criteria	No Improvements	Four-Lane Urban Section with 6' SW and 10-14' Path
Relocations		
Number of Residential Acquisitions	None	1
Number of Business Acquisitions	None	None
Number of Parcels Impacted	None	10
Social, Natural and Physical Impacts		
Social and Neighborhood	None	Low
Archeological/Historic Sites	None	None
Threatened and Endangered Species	None	No Adverse Impacts
Wetland Impacts (Acres)	None	None
RHPZ Uplands Impacts (Acres)	None	1.03
Floodplain Impacts (Acre-Feet)	None	0.798
Potential High or Medium Ranked Contamination Sites	None	None
Estimated Costs (Present Day Costs)		
Estimated Construction Cost	No Cost	\$27,538,176
Design, Adm Costs (15% of Construction)	No Cost	\$4,130,726
CEI (15% of Construction)	No Cost	\$4,130,726
Right-of-Way Costs	No Cost	\$2,148,566
Wetland Mitigation	No Cost	
RHPZ Uplands Mitigation	No Cost	\$103,000
Reimbursable Utility Relocation	No Cost	
Subtotal		\$38,051,194
Contingency (20%)		\$7,610,239
TOTAL ESTIMATED COSTS		\$45,661,433



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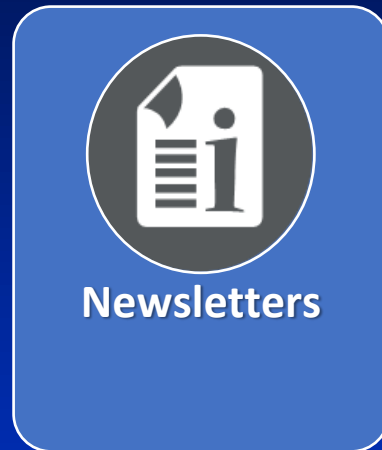
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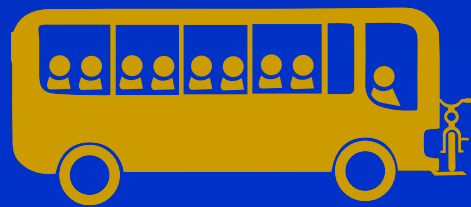
Public Engagement & Study Schedule

Public Engagement

- Survey
- Call/Email
- Attend LPA and BCC Hearings



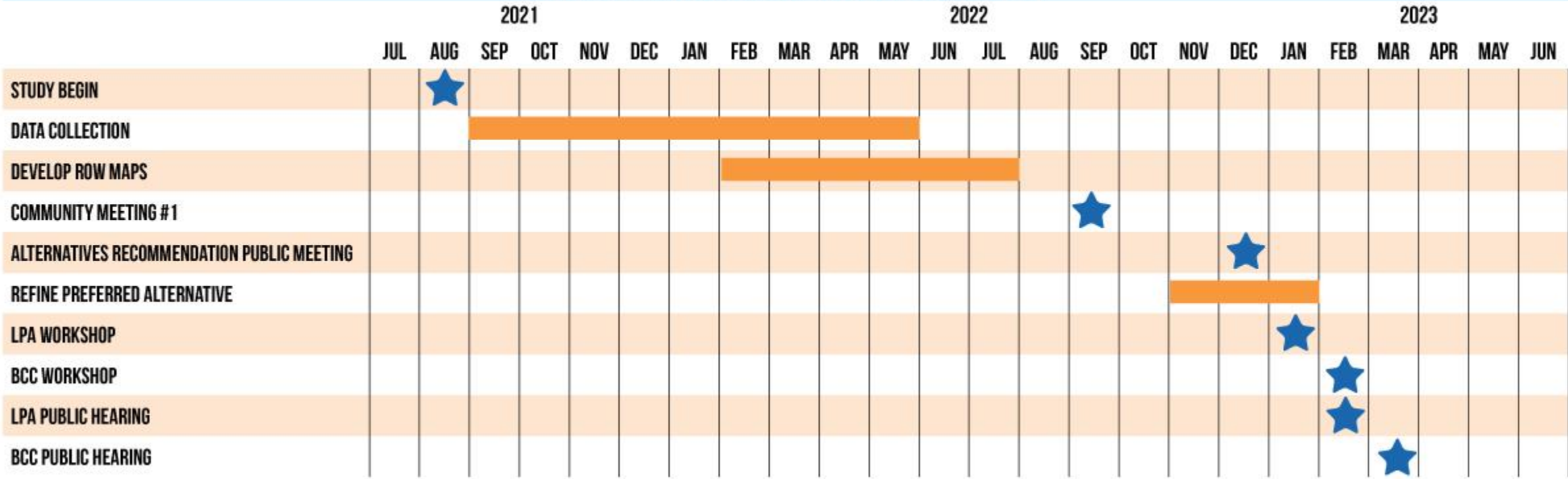
- Project Website: <https://www.chuluotarca.com>





Public Engagement & Study Schedule

CHULUOTA ROAD RCA PROJECT SCHEDULE





Public Engagement & Schedule

Design and Construction Schedule

- **RCA Approved – March, 2023**
- **Begin Design – January, 2024**
- **Design Approved – June, 2025**
- **Begin Construction – June, 2027**
- **Construction Complete – June, 2029**



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Public Comment

Contact Information

Blanche Hardy

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**CHULUOTA ROAD (CR 419)
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Recommended Concept Public Meeting

December 6, 2022