

Peach Orchard Drive



June 28, 2023

AGENDA

- Background and Overview
- Alternatives
- Public Involvement
- Survey Results
- Pop-Up Event
- Final Traffic Calming Treatments
- Cost
- Final Outcomes

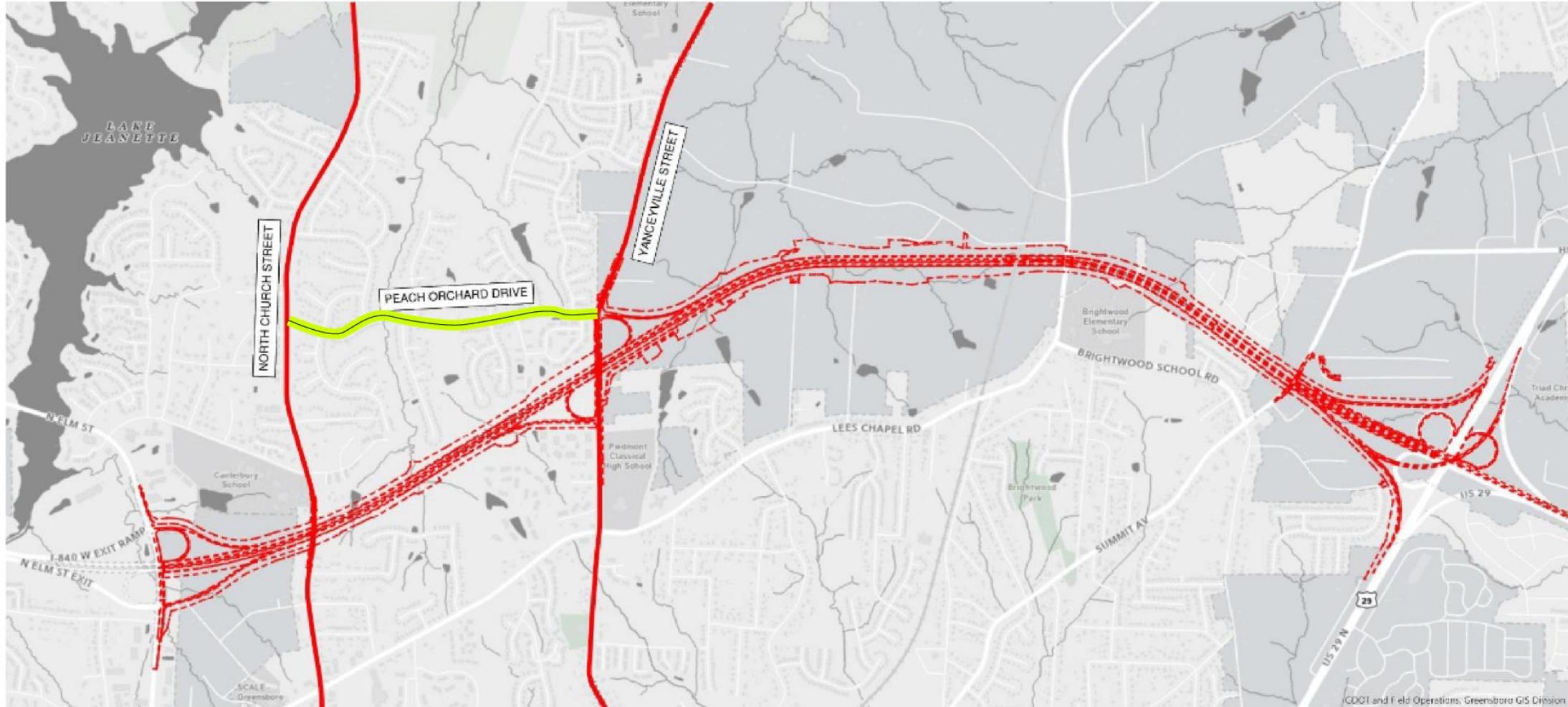


Peach Orchard Drive

BACKGROUND & OVERVIEW



BACKGROUND & OVERVIEW



Peach Orchard's Proximity to Urban Loop

Peach Orchard Drive

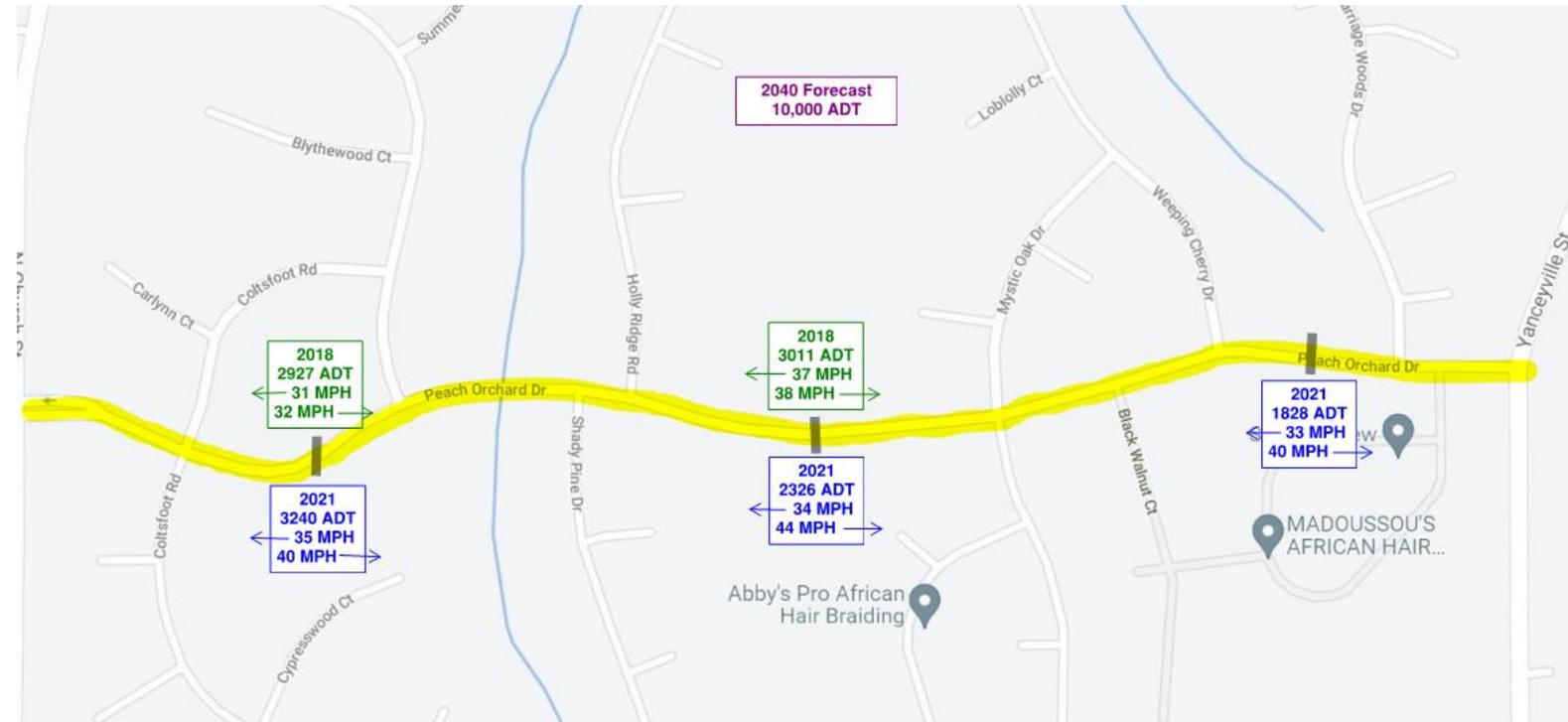
BACKGROUND & OVERVIEW



Peach Orchard 2002 Aerial

Peach Orchard Drive

BACKGROUND & OVERVIEW



Peach Orchard Drive Speed Study

- Request for ALL-WAY STOP controls at Carriage Woods Drive, Weeping Cherry Drive and Mystic Drive to address speeding concerns on Peach Orchard Drive
- Manual on Uniform Traffic Control Devices (MUTCD) states that STOP signs should not be used for speed control but rather to determine right-of-way
- The above mentioned intersections have not met minimum requirements for the installation of ALL-WAY STOP signs

ALTERNATIVES



ALTERNATIVES



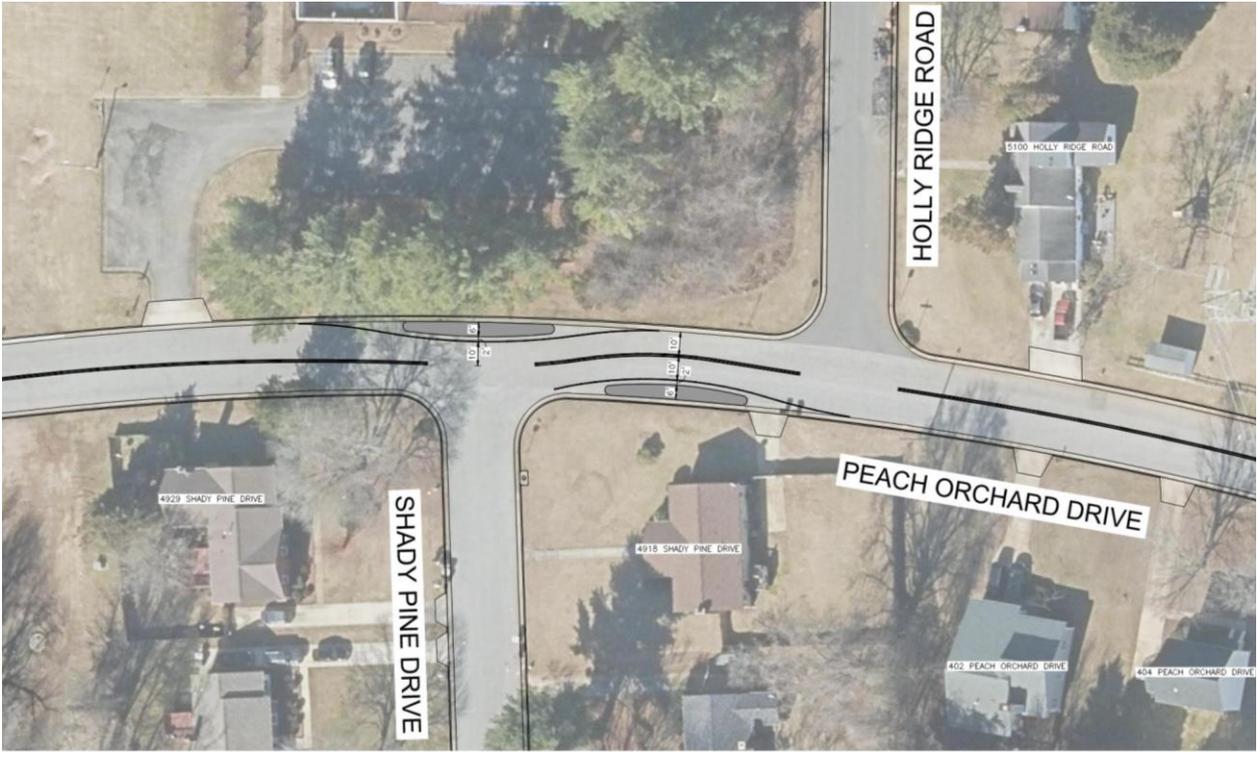
Peach Orchard Drive – west end

Peach Orchard Drive

ALTERNATIVES



Near Shady Pine Drive / Holly Ridge Road



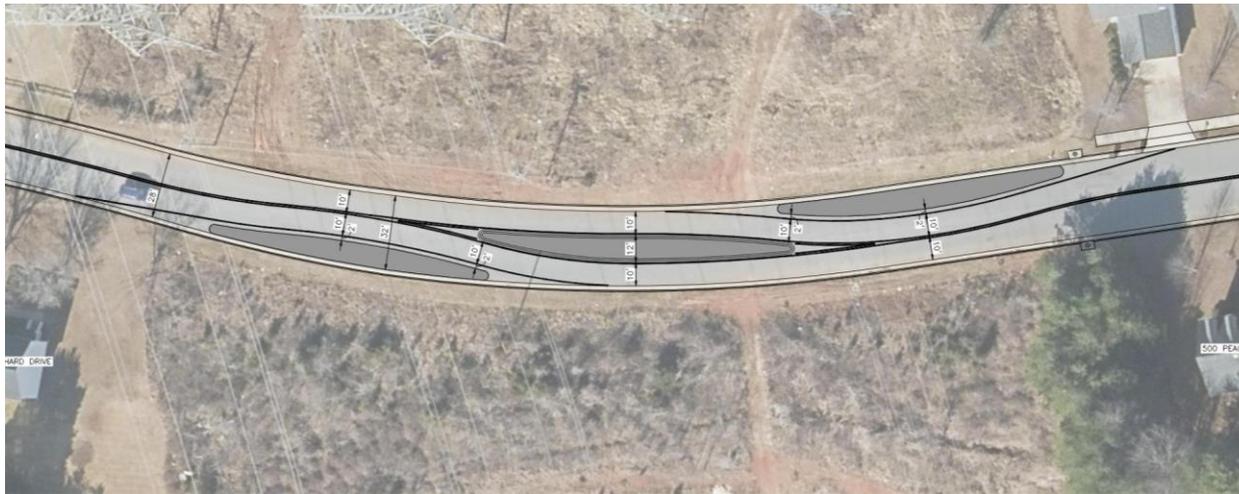
Peach Orchard Drive

ALTERNATIVES

Chicane Option between Holly Ridge Road and Mystic Oak Drive



Lateral Shift Option between Holly Ridge Road and Mystic Oak Drive



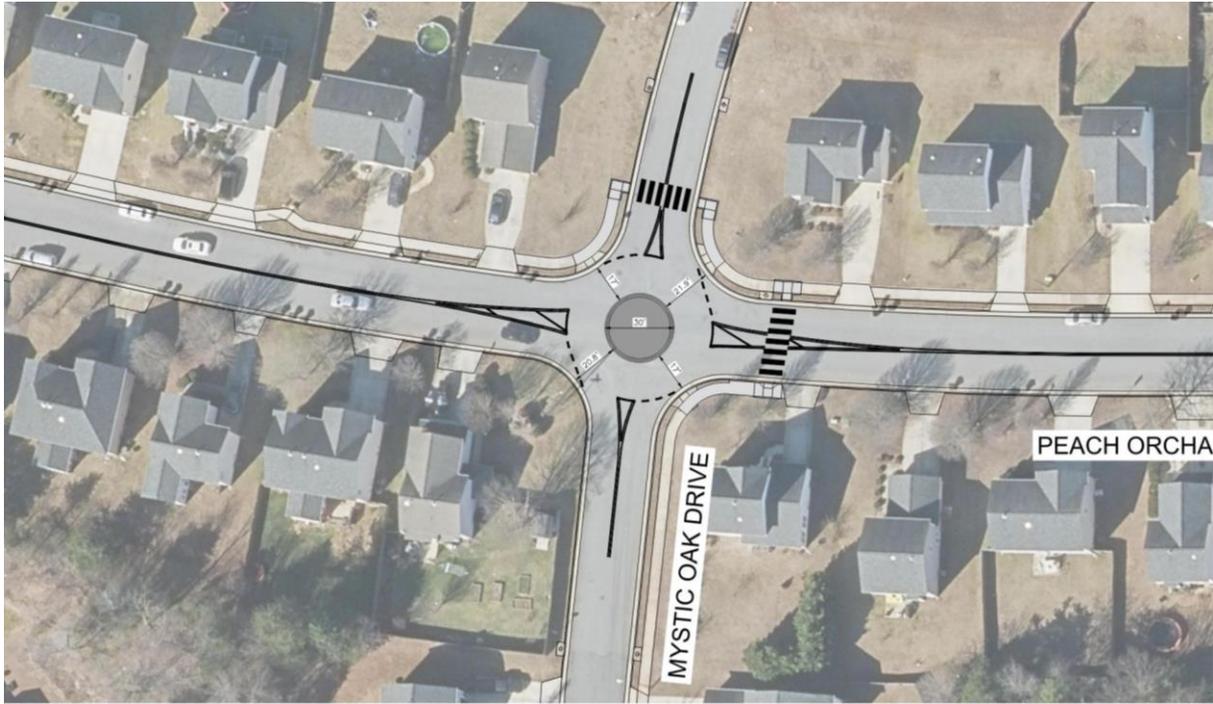
ALTERNATIVES



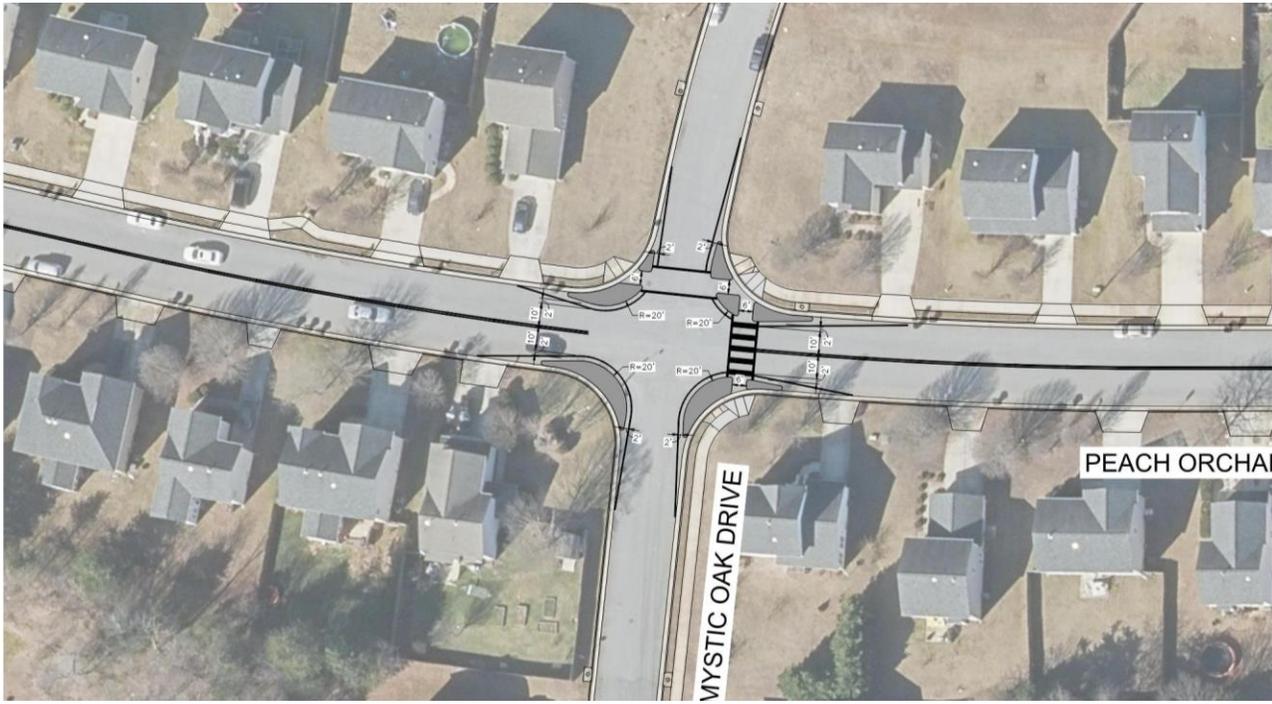
At Mystic Oak Drive

Peach Orchard Drive

ALTERNATIVES



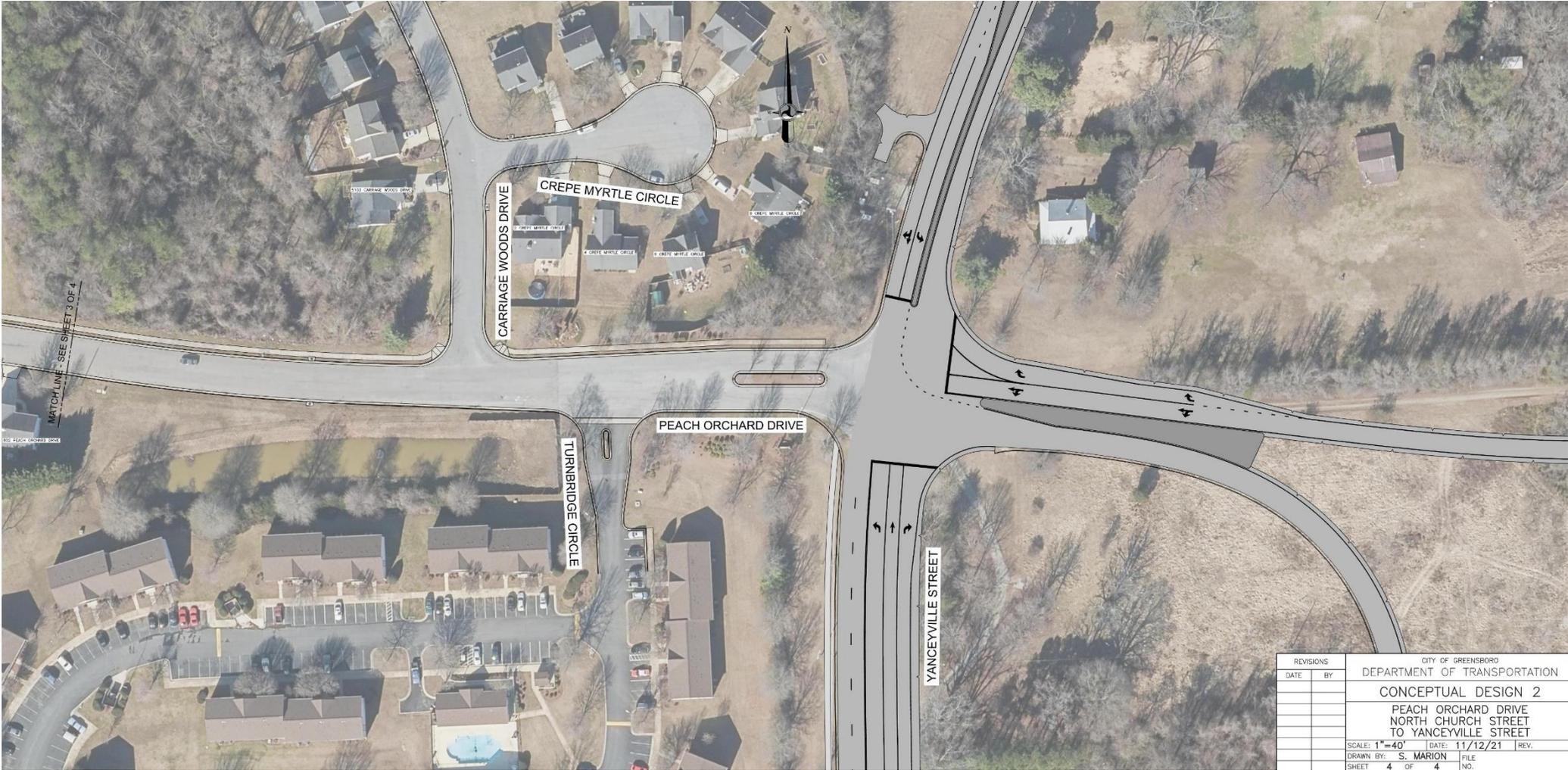
Mini-Roundabout Option at Mystic Oak Drive



Bulbout (Corner Extension) Option at Mystic Oak Drive

Peach Orchard Drive

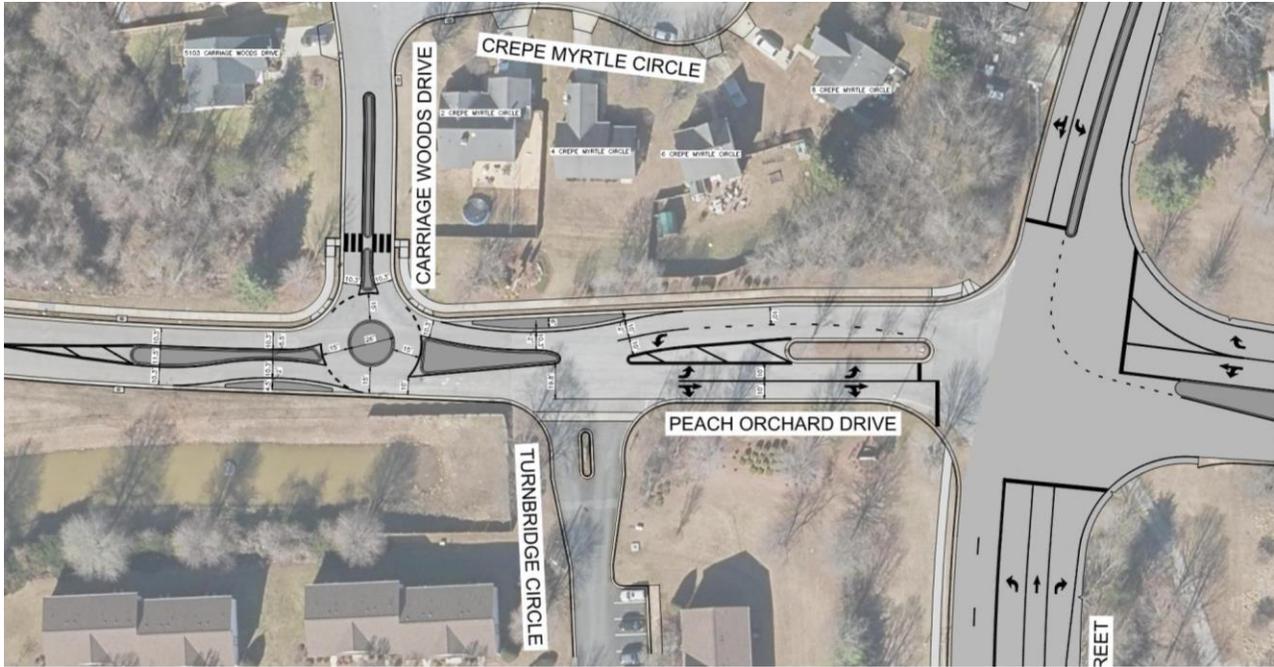
ALTERNATIVES



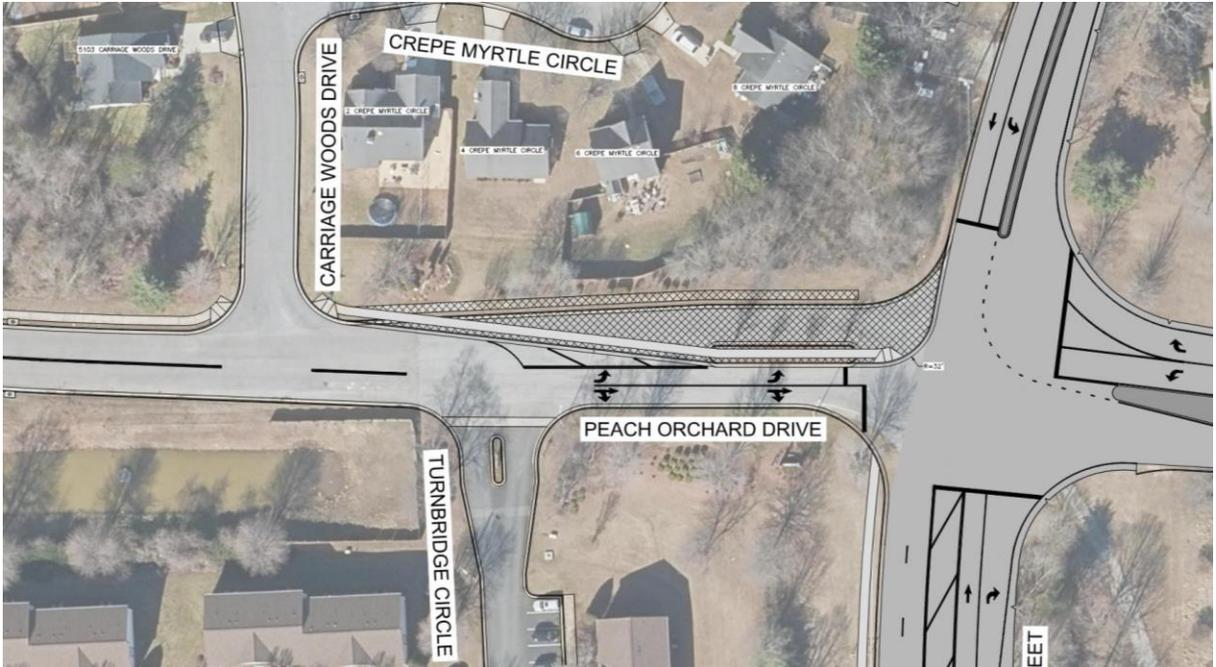
Carriage Woods Drive to Yanceyville Street

Peach Orchard Drive

ALTERNATIVES



Mini-Roundabout Option at Carriage Woods Drive



Partial Closure Option at Yanceyville Street

Peach Orchard Drive

PUBLIC INVOLVEMENT



PUBLIC INVOLVMENT

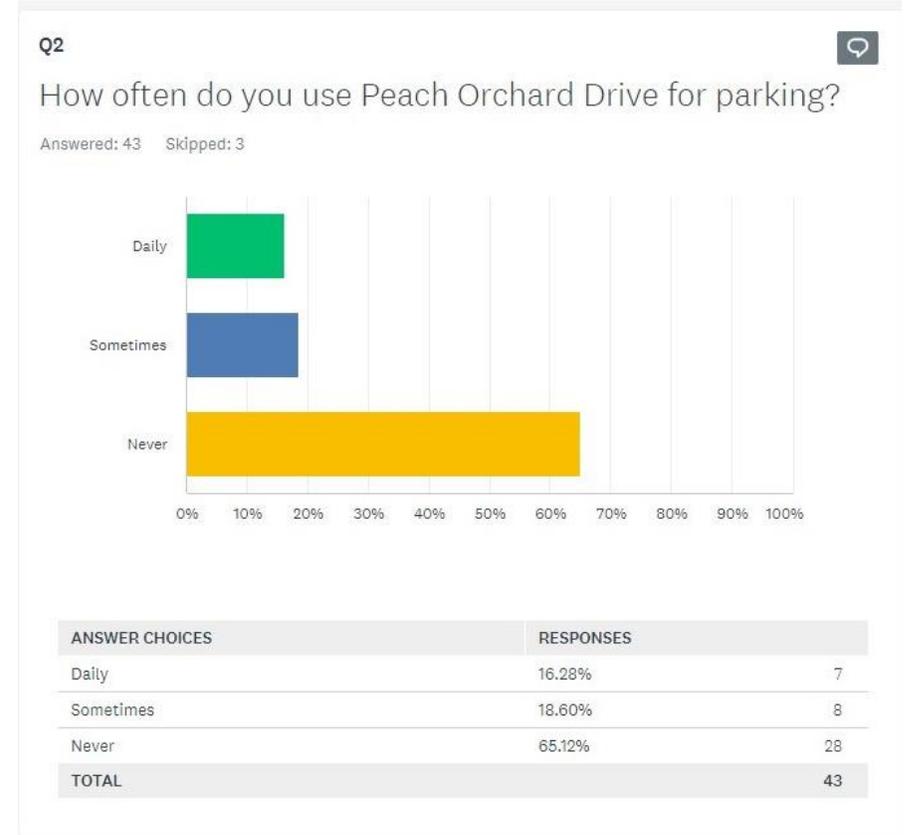
- Conducted a series of public outreach and involvement efforts.
 - Stakeholder meetings with community leaders
 - 2 Public Meetings via Zoom
 - December 2021 and February 2022
 - 583 mailed notices
 - Advertised on City website & social media, Nextdoor, and HOA Distribution
 - Online Survey via Survey Monkey
 - Pop-Up event
 - Online Survey following Pop-Up
- Greensboro Fire Department advise that traffic calming could affect emergency response times.



Peach Orchard Drive

SURVEY RESULTS

- West end of Peach Orchard Dr (The Orchard Neighborhood) more narrow
- On-street parking could be impacted
- 35% of respondents use on-street parking – half from The Orchard Neighborhood
- Parking study showed at most 4 vehicles parked along Peach Orchard Drive throughout the day at The Orchard Neighborhood



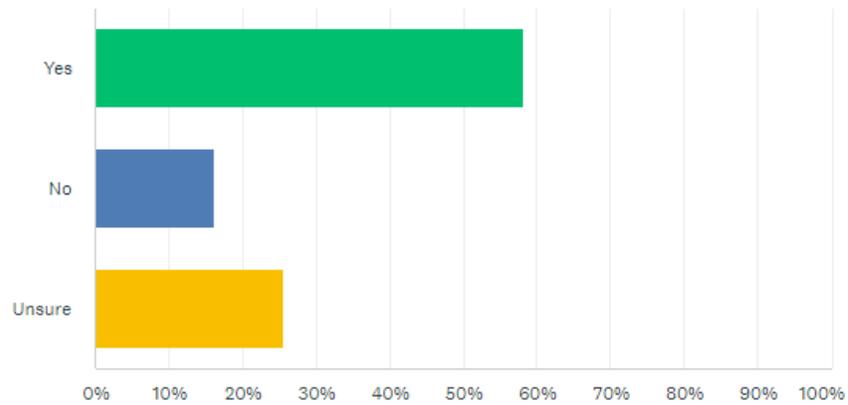
SURVEY RESULTS

Q3



Shady Pine Drive Intersection Redesign Option Realigned intersections slow traffic by introducing concrete medians that reduce speed up to 13 miles per hour. Would you like to see a realigned intersection at Shady Pine Drive?

Answered: 43 Skipped: 3



ANSWER CHOICES	RESPONSES	
Yes	58.14%	25
No	16.28%	7
Unsure	25.58%	11
TOTAL		43



Peach Orchard Drive
Shady Pine Drive Intersection

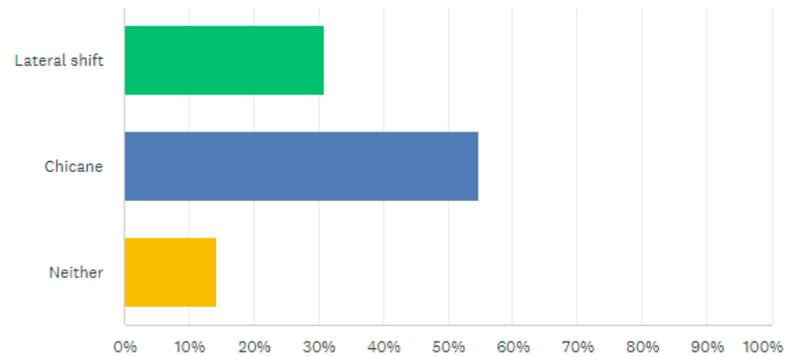
SURVEY RESULTS

Q5

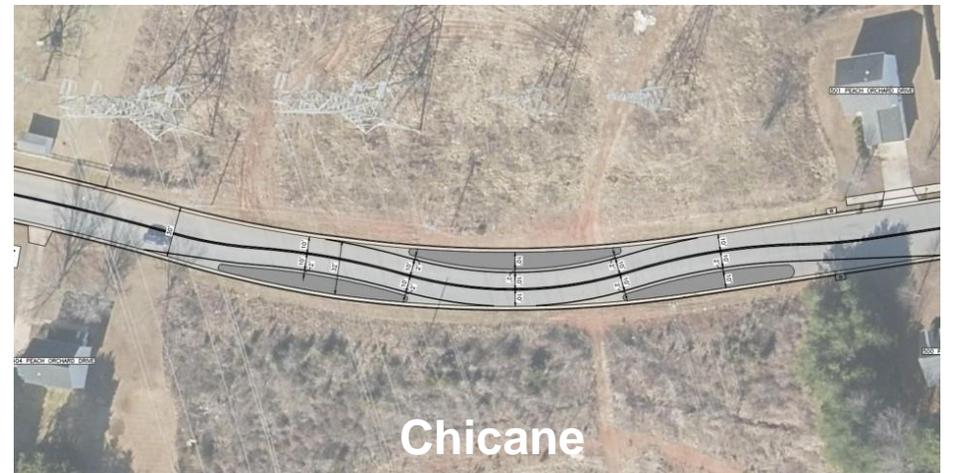


Between Holly Ridge Road and Mystic Oak Drive Redesign Options Lateral shifts slow traffic by encouraging motorists to moderate vehicle speed through an area with medians. Chicanes shift alignment with medians more than once, providing more speed reduction than a regular lateral shift. Would you prefer a lateral shift, chicane, or neither?

Answered: 42 Skipped: 4



ANSWER CHOICES	RESPONSES
Lateral shift	30.95% 13
Chicane	54.76% 23
Neither	14.29% 6
TOTAL	42



Peach Orchard Drive
Lateral Shift vs. Chicane

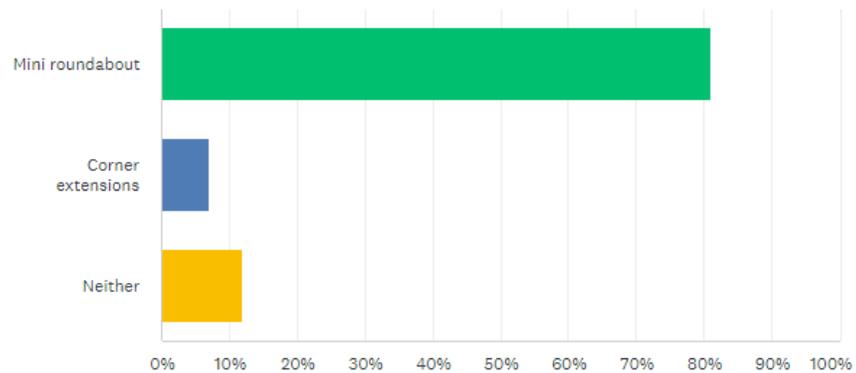
SURVEY RESULTS

Q7

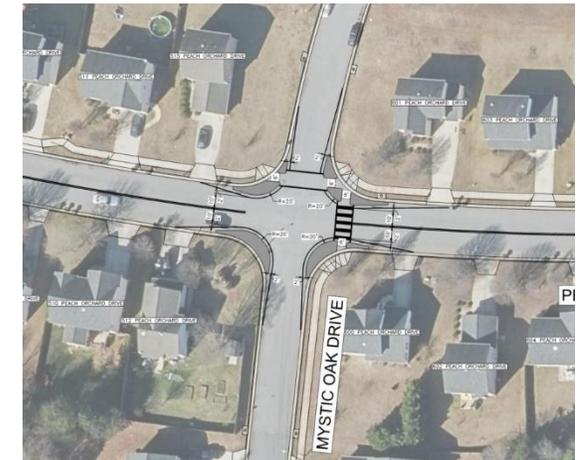
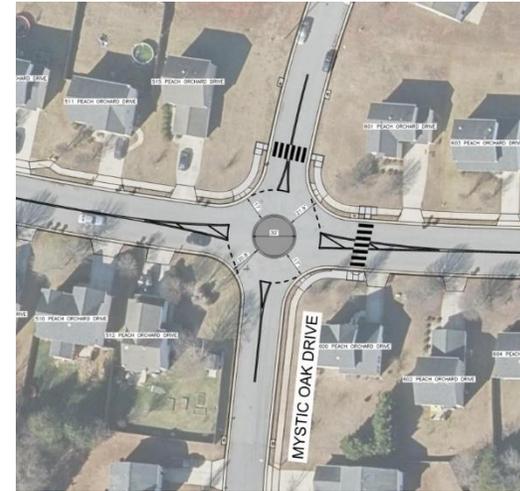


Mystic Oak Drive Intersection Options Mini-roundabouts can slow traffic speed up to 40 percent near the intersection. Corner extensions slow traffic by narrowing the roadway at the intersection. They also reduce conflicts with pedestrians and between vehicles. Would you prefer a mini roundabout, corner extensions, or neither?

Answered: 42 Skipped: 4



ANSWER CHOICES	RESPONSES	
Mini roundabout	80.95%	34
Corner extensions	7.14%	3
Neither	11.90%	5
TOTAL		42



**Peach Orchard Drive
Mystic Oak Drive**

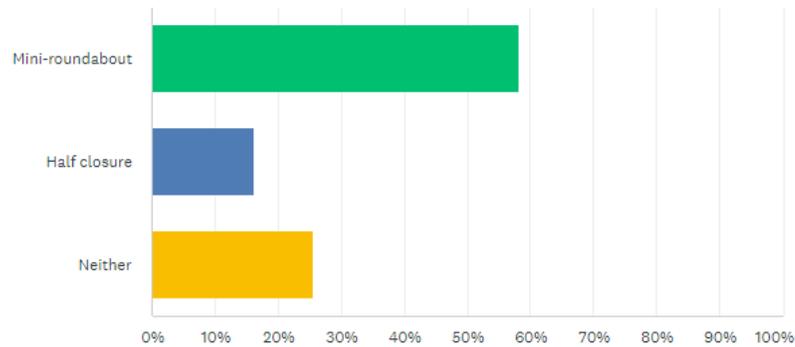
SURVEY RESULTS

Q9

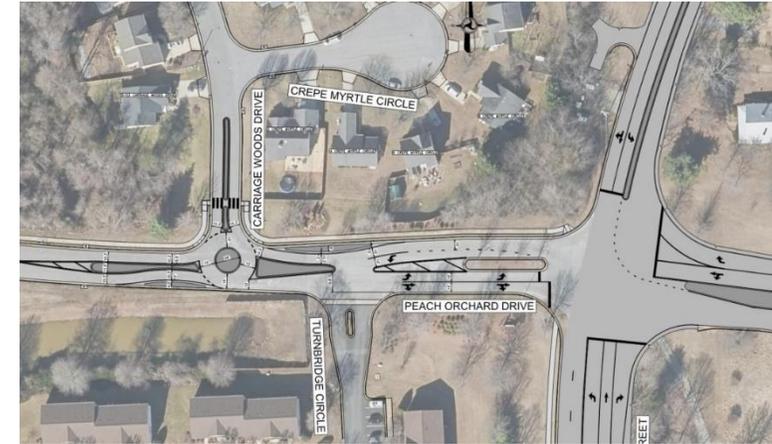


Carriage Woods Drive and Yanceyville Street Intersection Options
A mini-roundabout at Carriage Woods Drive would slow traffic near the intersection. Closing half the street (the westbound lane of Peach Orchard Drive from Yanceyville to Carriage Woods Drive) would reduce traffic volume, but will increase traffic on Townsend Farm Drive and Carriage Woods Drive. Would you prefer a mini-roundabout, half closure, or neither?

Answered: 43 Skipped: 3



ANSWER CHOICES	RESPONSES	
Mini-roundabout	58.14%	25
Half closure	16.28%	7
Neither	25.58%	11
TOTAL		43



Peach Orchard Drive
Carriage Woods Drive

SURVEY RESULTS

ADDITIONAL COMMENTS RECEIVED

- Eliminate connection between the neighborhoods
- Traffic signal needed at Church Street
 - City is evaluating and discussing with NCDOT
- Sidewalks needed along Peach Orchard Drive
 - Pursue design and construction if there is general support



**Peach Orchard Drive
Supplemental Comments**

POP-UP EVENT

- Saturday, March 26, 2022
- 3.5 Hours
- 10-12 City staff
- 5 Community members



Peach Orchard Drive

POP-UP EVENT



Video: Paint truck



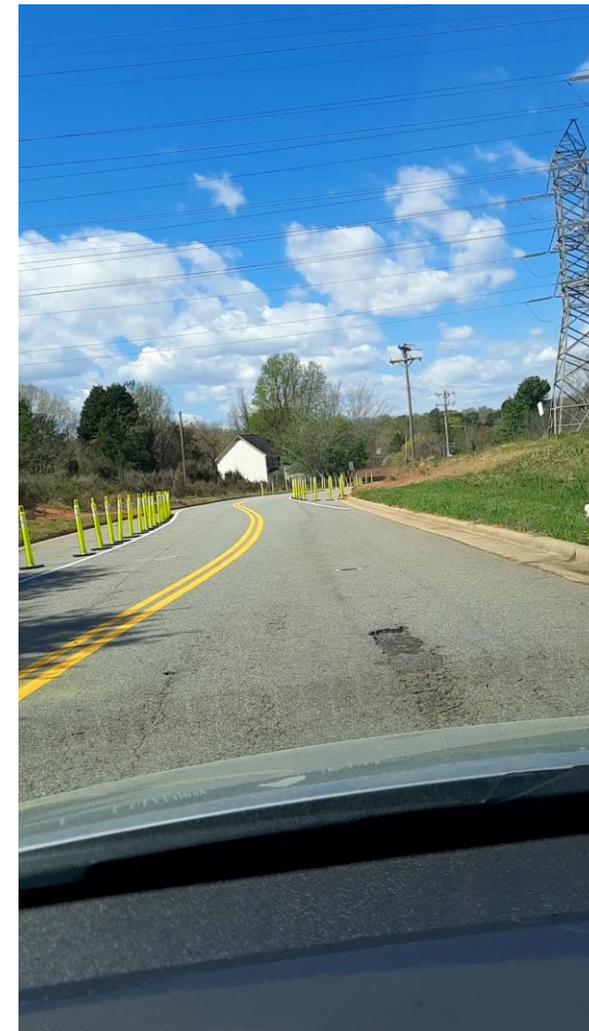
Video: Johanna Cockburn, Director of GDOT

Peach Orchard Drive

POP-UP EVENT



Pop-Up Temporary Barricades



Pop-Up Temporary Chicane

Peach Orchard Drive

POP-UP EVENT



Video: Fire truck



Video: Greensboro Fire Department

Peach Orchard Drive

FINAL TRAFFIC CALMING TREATMENTS

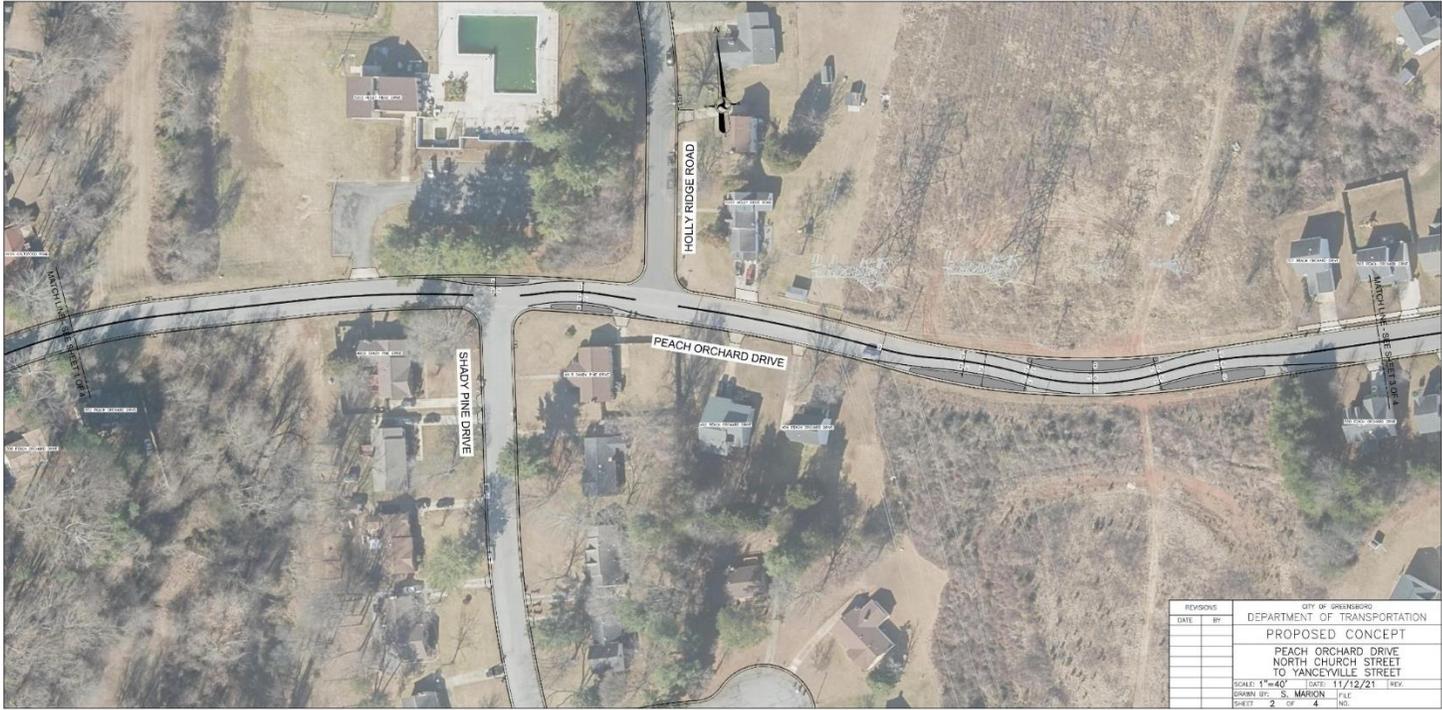


TRAFFIC CALMING TREATMENTS



Peach Orchard Drive

TRAFFIC CALMING TREATMENTS



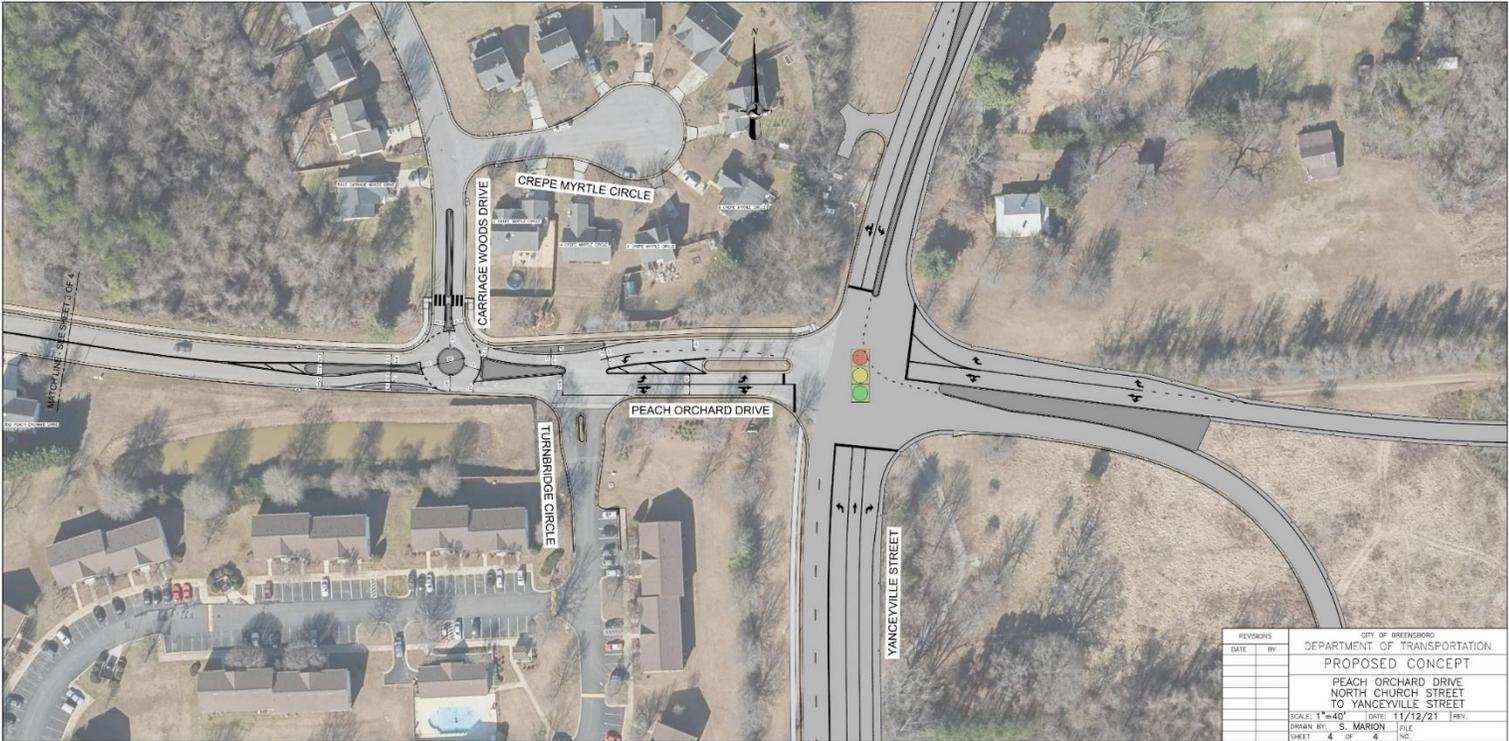
Peach Orchard Drive

TRAFFIC CALMING TREATMENTS



Peach Orchard Drive

TRAFFIC CALMING TREATMENTS



Peach Orchard Drive

COST



COST

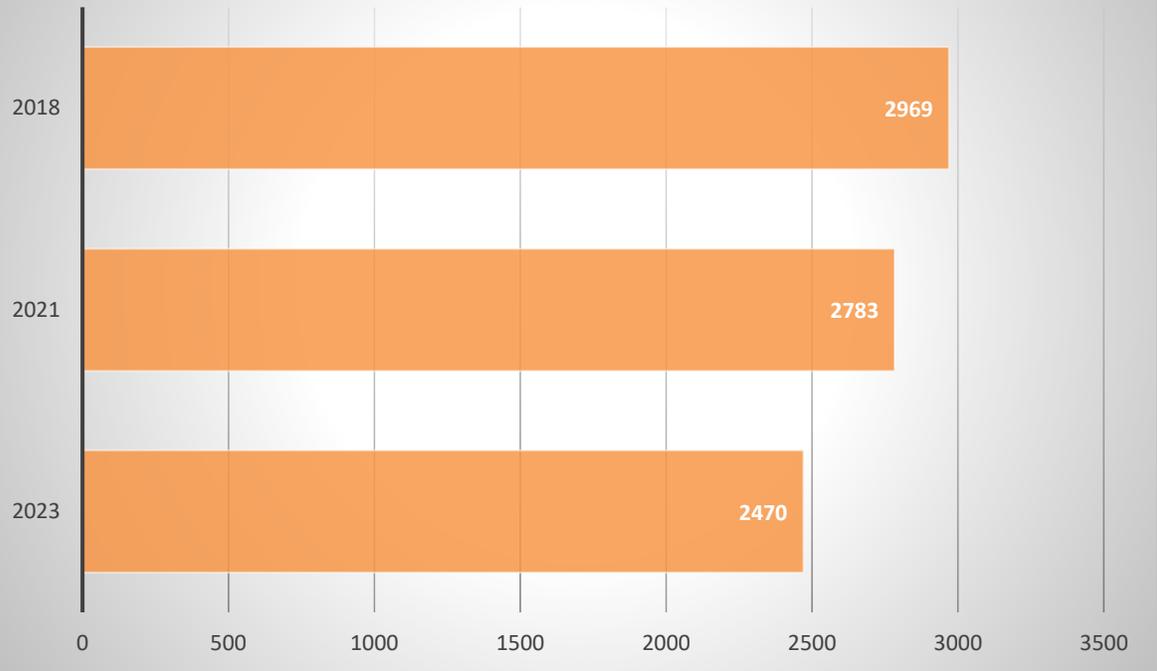
- Pop-Up Event
 - Materials- \$0
 - Staffing Overtime (Field Services)- 3.5 Hours, 6 Personnel - \$840
- Total Cost - \$840
- Transportation Facilities
 - Curb and Gutter - \$44,000
 - Sidewalk - \$6,000
 - Wheelchair Ramps - \$16,000
 - Concrete Islands - \$50,000
 - Roundabout Stamped Concrete - \$29,000
 - Mobilization / Excavation - \$57,000
- Total Cost - \$202,000

FINAL OUTCOME

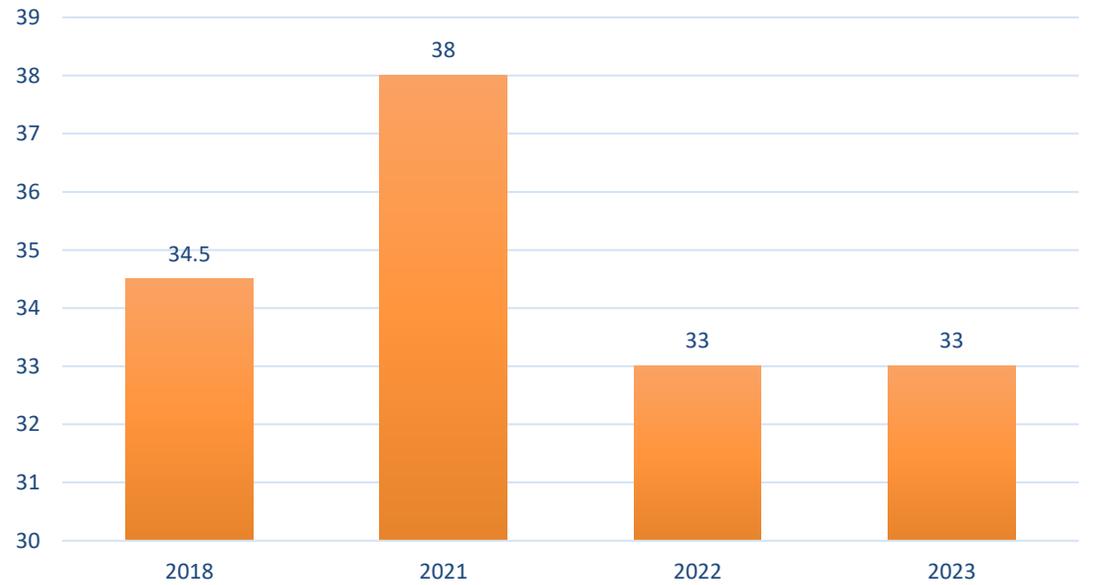


FINAL OUTCOME

Average Daily Traffic



Average 85th Percentile Speeds (MPH)



Peach Orchard Drive