



Buckingham Road/ Gunnery Road Roundabout Design Project

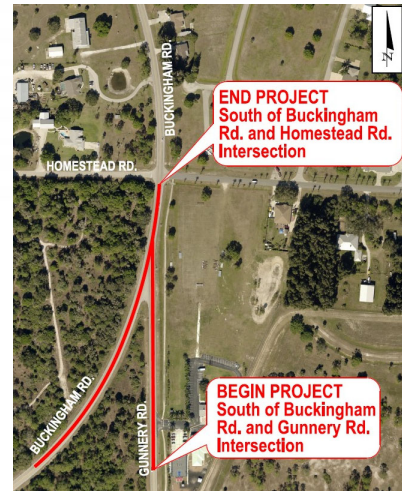
Public Meeting October 13, 2020



Welcome to the Lee County Department of Transportation's Public meeting for the Buckingham Road/Gunnery Road roundabout design project.

About the Project

- In 2017, Lee County Metropolitan Planning Organization completed a study to determine if roundabouts could improve safety and traffic flow
- The roundabout at Buckingham Road and Gunnery Road intersection was approved as one of the top five sites in the county
- Purpose of the project is to reduce delays and improve safety



In 2017, the Lee County Metropolitan Planning Organization completed a study in 18 locations in Lee County to determine if roundabouts could improve safety and traffic flow. The roundabout at the Buckingham Road and Gunnery Road intersection was approved as one of the top five sites for a roundabout consideration in the county. The purpose of this project is to reduce delays and improve safety.

Crash History

2016

8 Total

5 northbound turning onto Buckingham
3 southbound turning off of Buckingham

2017

5 Total

2 run off road
3 miscellaneous rear-end

2018

6 Total

2 right angle eastbound with northbound
3 NB turning onto Buckingham
1 run off road

2019

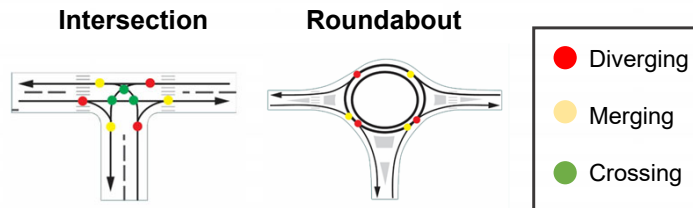
10 Total

5 northbound turning onto Buckingham
2 southbound turning off of Buckingham
2 run off road
1 right angle eastbound with northbound



This chart shows the various crashes that have occurred at the intersection. Each crash scenario is provided. Overall, in 2016, there were a total of 8 crashes, in 2017 there were a total of 5 crashes, in 2018 there were 6 crashes and in 2019 there were a total of 10 crashes.

Vehicle Conflict Points



9 points in intersection where traffic intersects

3 each conflict point types: diverging, merging and crossing

3-legged roundabout, there are 6 conflict points

3 diverging and 3 merging

- A roundabout has 33% reduction in traffic conflict points
- Head-on and high-speed collisions are virtually eliminated



As it exists today, there are 9 points in the intersection where traffic intersects – 3 of each of the conflict point types : diverging, merging and crossing. In a three-legged roundabout, there are 6 conflict points – 3 diverging and 3 merging. In addition to a 33% reduction in traffic conflict points, head-on and high-speed collisions are virtually eliminated.

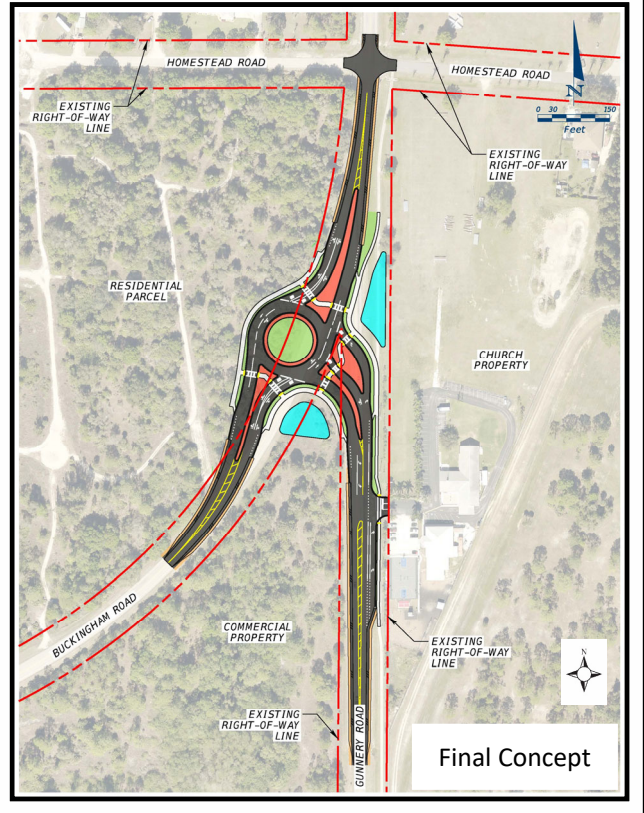
Roundabout Traffic Flow

- Roundabouts reduce travel time allowing traffic in all directions to flow continuously
- Motorists travel in counterclockwise direction around the circle and proceed in their intended direction without stopping
- Studies show a significant time savings because motorists do not have to wait to make left-turns
- Roundabouts are efficient both during high traffic and low traffic
- Vehicles move continuously with little or no delay
- Vehicles do not have to wait for signal to change when there are no other vehicles in the intersection
- Accommodates all future pedestrian movements and current / future bicycle activity



Roundabouts reduce travel time allowing traffic in all directions to flow continuously. Motorists travel in a counterclockwise direction around the circle and proceed in their intended direction without stopping. Studies show a significant time savings because motorists do not have to wait to make left-turns. Roundabouts are efficient both during high traffic and low traffic as vehicles can move continuously with little or no delay. Vehicles do not have to wait for a signal to change when there are no other vehicles in the intersection. The roundabout will accommodate all future pedestrian movements and current / future bicycle activity.

Buckingham Road/ Gunnery Road Roundabout



This is a conceptual drawing of the roundabout. The roundabout design provides a separate northbound right turn lane to Buckingham Road from Gunnery Road, and a separate southbound through lane along Buckingham Road. Right-of-way needs have not been confirmed or approved by the Board of Lee County Commissioners.

What Is Next?

Design Completed:
Fall 2021

Right-of-Way Acquisition:
By Florida Department of Transportation

Construction:
Will follow Right-of-Way Acquisition



Design will be complete in fall 2021. Right-of-way acquisition will follow design completion and will be handled by the Florida Department of Transportation. Construction will begin after the right-of-way acquisition.



We Want Your Input

Mail, email or submit comments on the website:

www.BuckinghamGunneryRoundabout.com

or contact us:

Kris Cella

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Community Outreach Consultant

[Kcella@cella.cc](mailto:kcella@cella.cc)

239-337-1071

You may mail, email or submit your comments through the project website, www.BuckinghamGunneryRoundabout.com. Or you may email Kris Cella, the Community outreach specialist at kcella@cella.cc



Thank you for your interest and participation in the Buckingham Road/Gunnery Road Roundabout Design Project.