



VILLAGE OF MARVIN

10006 Marvin School Road | Marvin, NC | 28173 | Tel: (704) 843-1680 | Fax: (704) 843-1660 | www.marvinnc.gov

FOR IMMEDIATE RELEASE:

8/31/2022

CONTACT:

Christina Amos

(704) 627-2020

Manager@marvinnc.gov

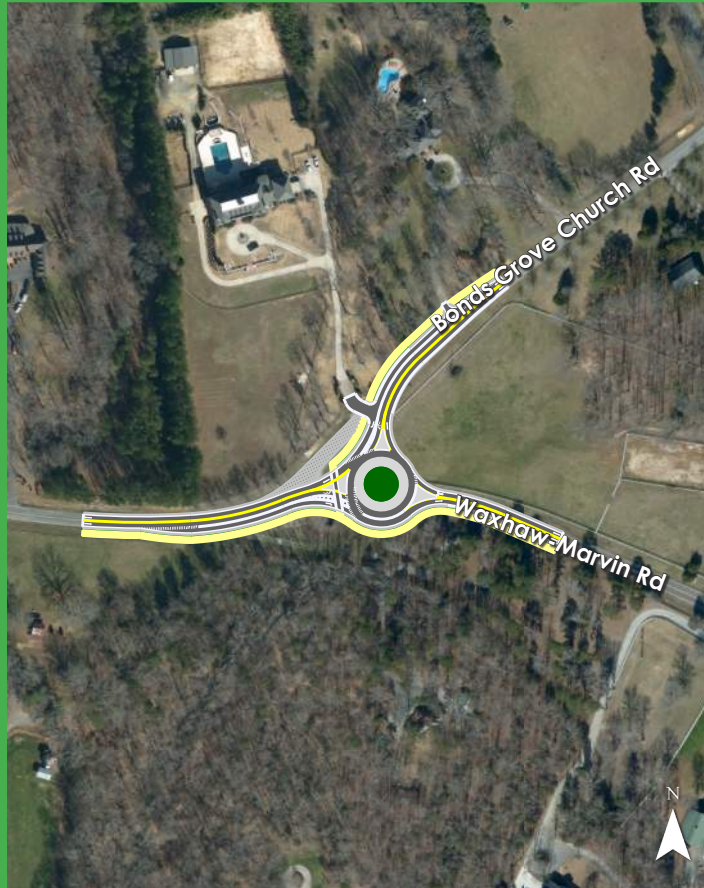
Waxhaw Marvin/Bonds Grove Road Intersection Improvements

At the August 25, 2022, Council meeting, the Marvin Village Council was presented with statistical crash data and preliminary costs estimates of a potential roundabout at the Waxhaw-Marvin and Bonds Grove Church intersection. Union County has requested that the Village of Marvin assist in a funding application to the Charlotte Regional Transportation Planning Organization for the \$5.5M project. The Marvin Village Council recognizes the needs for traffic improvements in this area, but also understands that this is a major financial decision that would likely result in additional taxes and are therefore analyzing this information further before taking a stance.

Half of this intersection is in Marvin limits and the other half is in unincorporated Union County, but is most frequented by Union County/Waxhaw residents. Marvin has requested a contribution from the Town of Waxhaw; however, they have recently been awarded high hazard project located at the corner of NC16 and Bonds Grove Road that would likely be competed for the same local match resources. The data presented to Council was from 2019 and financial projections from 2020; therefore, the Marvin Village Council requested that updated information and a staff analysis on financial projections be presented at the Village Council meeting scheduled for Tuesday, September 13, 2022 at 6pm at Marvin Village Hall (10006 Marvin School Road). Residents are welcome to attend this meeting to hear or give feedback on this project.

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Preferred Alternative – Roundabout



Design Deficiencies

- Limited sight distance for vehicles approaching intersection
- Skewed intersection creates challenges for stop-controlled traffic along westbound Waxhaw-Marvin Road
- Existing through movement is not the heaviest traffic movement

Design Considerations

- Multiple schools in the surrounding area
- Gas, water, and sewer lines present along Waxhaw-Marvin Road
- Town Greenway Master Plan calls for a greenway along Waxhaw-Marvin Road

Proposed Design Improvements

- Construct roundabout with right-turn lanes on southbound and eastbound approaches
- Realign intersection to improve approach angle
- Add multi-use path along the south side of Waxhaw-Marvin

Cost

Preliminary Engineering	\$0.89 M
Right-of-Way	\$0.34 M
Construction	\$4.23 M
TOTAL	\$5.46 M
Local Match (Min. 20%)	\$1.09 M

NOTE: Project cost estimated based on FY 2020 dollars and may need to be modified for future year funding opportunities

Jurisdiction	Existing Conditions	Turn Lane(s)
Marvin	One-Way Stop-Controlled	No

Analysis Results

Congestion

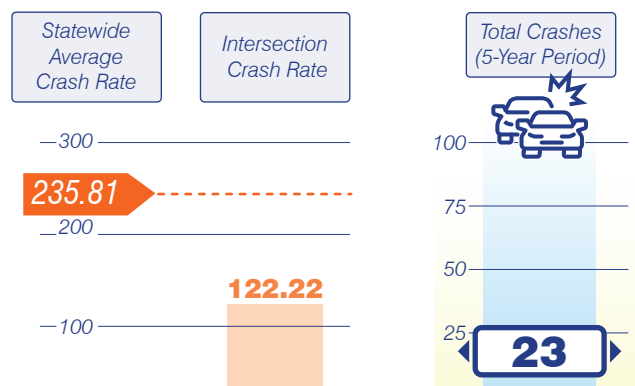
	LOS	Delay (sec/veh)	V/C
2019	E	45	1.35
2035 No-Build	F	161	2.43
2035 Build	B	13	0.83

Reduction of Delay
(2035 Build vs. No-Build)

92%

Congestion data based on weighted average of the AM and PM peak hour delay for comparison purposes.

Safety



Reduction in Total Crashes
(Estimated with preferred alternative)

50%

Crash data from 8/1/2015 through 7/31/2020