



ENGINEERING SERVICES

To: **Mayor and Town Council**

From: **Robert Gey, P.E., Senior Traffic Engineer**

Through: **Mario Canizares, Town Manager**
Chuck Ewings, Assistant Town Manager
Hulon T. Webb, Jr., P.E., Director of Engineering Services

Re: **Discussion on Roundabouts**

Town Council Meeting – February 10, 2026

Strategic Visioning Priority: 1. Acceleration of Infrastructure

Agenda Item:

Discussion regarding the Town's Roundabout Policy.

Description of Agenda Item:

Staff will present information about roundabouts and signalized intersections so that policy guidance can be developed on preferred intersection types for transportation corridors throughout the Town of Prosper. Since several roadway projects are currently under design, and future projects are planned, policy guidance is needed by staff to ensure that the vision that Town Council has for the transportation system is achieved.

Over the last few years, Roundabouts have increased in popularity both locally and nationwide because of the benefits they provide in moving traffic through intersections. Those benefits include enabling traffic to flow smoothly through the intersections with fewer delays while at the same time reducing the severity of crashes. Even though there are many benefits to Roundabouts, there are cases where a traditional traffic signal may be the preferred traffic control device. Since the characteristics of conventional signalized intersections and roundabouts are quite different, they create very different driver experiences. Considering the number of transportation projects under design, staff would like input from Town Council regarding the approaches that are best suited to meet their vision for moving our community forward.

Last year, Kimley Horn was hired to educate Town staff on the pros and cons of Roundabouts versus traditional traffic signals and to assist the Town with setting parameters for selecting intersections for further analysis. The educational information provided by Kimley Horn is as follows and will be discussed in further detail during the discussion:

- General information about roundabouts and traffic signals
- Pros and cons of roundabouts and traffic signals
- Cost comparison: single lane and two-lane roundabouts vs. signalized intersections

- Conversion costs: signalized intersections to roundabouts and vice versa
- Long-term maintenance costs of roundabouts vs. signalized intersections
- Typical capacities: single and two-lane roundabouts vs. signalized intersections
- Bicycles and pedestrian accommodations
- Emergency vehicle response

Staff will present information to assist Town Council with making policy decisions regarding the consideration of roundabouts:

Current and proposed intersection control types within and adjacent to the Town of Prosper.

- Existing signalized intersections and roundabouts
- Future Town controlled roundabouts
- Future roundabouts proposed by other agencies

Opportunities to determine future intersection control types.

- Intersections that are not Town controlled and not recommended to be roundabouts
- Town controlled intersections that are not recommended to be studied to be roundabouts
- Intersections where determination of control type needs to be made

Considerations for development of policy guidance.

- Determine the corridor's primary purpose
 - Move through traffic and provide connectivity to other communities
 - Serve local transportation needs
 - Support special transportation needs
- Would roundabouts best support residential and business uses?
- Should a transportation corridor be slowed or "calmed"?
- Projects currently under design and future projects

Budget Impact:

There is no budgetary impact affiliated with this item.

Attached Documents:

1. Study Intersections Map

Town Staff Recommendation:

Discussion of any additional information and input needed by Council to make a policy recommendation to staff. Determine next steps for staff to be able to provide Council a draft policy regarding roundabouts to review and approve.