



ENGINEERING & OPERATIONS

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TRANSPORTATION TECHNICAL MANUAL BULLETIN 23-05

TRANSPORTATION DESIGN MANUAL BULLETIN 23-08

DATE: May 30, 2023

TO: County Director of Engineering & Operations Department,
County Director of Capital Programs Department,
County Manager of Construction Services,
County Director of Transportation Maintenance Division,
County Project Managers, and Project Engineers of Record

FROM: County Engineer,
County Director of Technical Services Division

COPIES: County Director of Performance Data and Analytics Department

SUBJECT: ROUNABOUT DESIGN CRITERIA

This bulletin identifies roundabout design criteria and elements that must be included in all roundabout designs.

REQUIREMENTS

Design of a roundabout must follow the National Cooperative Highway Research Program (NCHRP) Report 672 Roundabouts: An Informational Guide and the Florida Design Manual (FDM). In Addition, the following specific design criteria and elements must be included in the design of all roundabouts:

- A minimum 5 foot wide landscape buffer must be provided between the curb and the sidewalk outside the limits of the inscribed circle diameter and must extend at a minimum to the bicycle ramp or 25 feet beyond the accessible pedestrian crossings.
- Roundabout sidewalk width:
 - Where ramps provide sidewalk access to bicyclists, the sidewalk minimum width must be 10 feet to accommodate shared use by pedestrians and bicyclists.
 - Sidewalk width must be a minimum of 8 feet for Urban (C4) context classification roads.
 - Sidewalk width must be a minimum of 6 feet for all other context classification roads without bicyclists.
- Place conduits for future electric (2-2" Schedule 40 PVC) and water (3" Schedule 40 PVC).

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Determine where the electric and water can be supplied from outside the limits of the inscribed circle diameter and provide the conduits from these locations to 3 feet beyond the truck apron into the grass area of the central island. The beginning and end of electrical conduit must be placed in a pull box and the electrical conduits must have pull strings. The ends of the water conduits must be marked with a concrete survey monument and placed in a grassed area for future access. The electrical and water conduits must be capped to prevent filling with soil. The conduits will be located in the construction plan set. Additional conduits for electric and water maybe required as directed by the Engineer of Record.

- Central Island Grading for collectors and arterials:
 - A mounded grassed area must be created in the central island with a minimum elevation of 3.5 feet and a maximum elevation of 6 feet above the back of the truck apron curb.
 - Slopes to achieve the height must not exceed 1:4 to maintain recoverable and transversal terrain.
 - The highest elevation and grades must be specified on the construction plan set.
 - Mini roundabouts may have elevations less than 3.5 feet and may have relatively flat slopes.

BACKGROUND

Construction plans that include roundabouts have commonly omitted certain design criteria and elements, some which are recommended in National Cooperative Highway Research Program (NCHRP) Report 672 Roundabouts. This bulletin identifies those omitted elements.

IMPLEMENTATION

Implementation is the date of the County Engineer's signature.

CONTACT

Please use the email link below to address any questions or comments in reference to this Design Bulletin:

[PW-Standards Inquiry](#)

Recommended / Date:

Approved / Effective Date:

Leland Dicus, Professional Engineer
Technical Services Division Director

Michael J. Williams, Professional Engineer
County Engineer