

Design/Resources

*For Roundabout Consideration & Alternative Selection Guidance Tool, see Roundabouts in Virginia @ <http://www.virginiadot.org/info/faq-roundabouts.asp>.

The maximum daily service volume of a single-lane roundabout varies between 20,000 and 26,000 vehicles per day (2,000 - 2,600 peak hour volume), depending on the left turn percentages and the distribution of traffic between the major and minor roads.

Additional information can be found in NCHRP Report 672, Roundabouts: An Informational Guide, Second Edition. See the following link:
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_672.pdf.

Additional information can also be found in VDOT's Roundabout Brochure at <http://www.virginiadot.org/info/resources/Roundabouts.pdf> and on VDOT's roundabout web site at [Roundabouts in Virginia](#).

The Review and Approval Process for Roundabouts:

Existing and Proposed Subdivisions - The District Location & Design Engineer shall review and approve roundabouts in subdivisions if VDOT owns and maintains the roadway or if it is the desire of the developer / locality for VDOT to accept the roadway into the State Highway System.

Secondary System – The District shall approve roundabouts up to a traffic design volume of 10,000 VPD. Roundabout designs in which the traffic volume exceeds 10,000 VPD shall be submitted to the Central Office Roundabout Review Committee at the preliminary field inspection, public hearing/design approval and right of way stages and for review and comments. The committee will make recommendations to the State Location and Design Engineer for approval or disapproval. Appeals of the State Location and Design Engineer's decision will go to the Chief Engineer for resolution.

When a District receives a request for a roundabout from an outside entity, and the design volume is below 10,000 VPD but requests the Central Office Roundabout Review Committees review and comments, the submittal shall be sent to the State Location and Design Engineer. It will be reviewed and comments and/or recommendations will be returned in a timely manner.

Primary or Urban System - The District Location & Design Engineer shall submit roundabout designs to the Central Office Roundabout Review Committee at the preliminary field inspection, public hearing/design approval and right of way stages for review and comments. The approval and appeals will be the same as mentioned above.

The process mentioned above applies to:

- Roundabouts proposed through six year construction program.
- Roundabouts proposed during road safety improvements and/or upgrades.
- Roundabouts proposed by Counties, Localities, Consultants and Developers

* Rev. 10/14