



VDOT / FHWA ROUNDABOUT WORKSHOP

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George T. Rogerson, Jr.

Policies and Procedures Section Manager

VDOT Central Office Location & Design Division

VDOT Roundabout History

In October of 1997, at the request of the Culpeper District Location and Design Engineer a multi-disciplined Roundabout Value Engineering (VE) Study Team was formed consisting of Engineers and Planners from the Culpeper District, Northern Virginia District, Location & Design Division, Transportation Planning Division, Traffic Engineering Division, Management Services Division and the VTRC.

VDOT Roundabout History

As a result of the October 1997 Roundabout Value Engineering (VE) Study the VDOT adopted the State of Maryland's Roundabout Guide until the "Roundabouts: An Informational Guide" was completed and made available. Also, it was decided to use the "SIDRA" software program over other available software to determine the feasibility, most appropriate geometric configuration and functional capabilities in regards to volumes and level of service on all roundabout requests we may receive.

VDOT Roundabout History

In November 2001, the Chief Engineer gave the Districts authority to approve Roundabouts at the District level if located on the Secondary System with total approach volumes up to 10,000 VPD and for existing and proposed Subdivisions. Additionally, should the District not feel comfortable making the final decision to proceed, the Central Office roundabout review committee would be receptive to reviewing the submittal and furnish recommendations, upon request. All other roundabout requests must be forwarded to the Central Office Roundabout Review Committee for review and evaluation.

2003 Legislative Action

House Joint Resolution
594.....
Resolved, That the
Department of
Transportation be
encouraged to construct
more roundabouts
instead of signalized
intersections;



VDOT Roundabout Policy

In July 2008 VDOT revised the Road Design Manual as follows:

“VDOT policy is that roundabouts be considered when a project includes reconstructing or constructing new intersection(s), signalized or unsignalized. At a minimum, the roundabout alternative shall be reviewed to determine conceptual project impacts including safety, land Impacts and construction. When the analysis shows that a roundabout is a feasible alternative, it is considered the Department’s preferred alternative due to the proven substantial safety and operational benefits”.

VDOT’s Scoping Report was also revised to address Roundabouts.

VDOT Roundabout History

To date, the VDOT has reviewed approximately 200 roundabout requests, approximately 110 have been constructed, and approximately 100 are in the planning stage and/or awaiting funding.

Design Resources

Roundabout designs shall be based on NCHRP Report 672,
Roundabouts: An Informational Guide, Second Edition.

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_672.pdf

VDOT's Road Design Manual

[http://www.extranet.vdot.state.va.us/locdes/Electronic_Pubs/2005%20RDM
AppendF.pdf](http://www.extranet.vdot.state.va.us/locdes/Electronic_Pubs/2005%20RDM_AppendF.pdf)

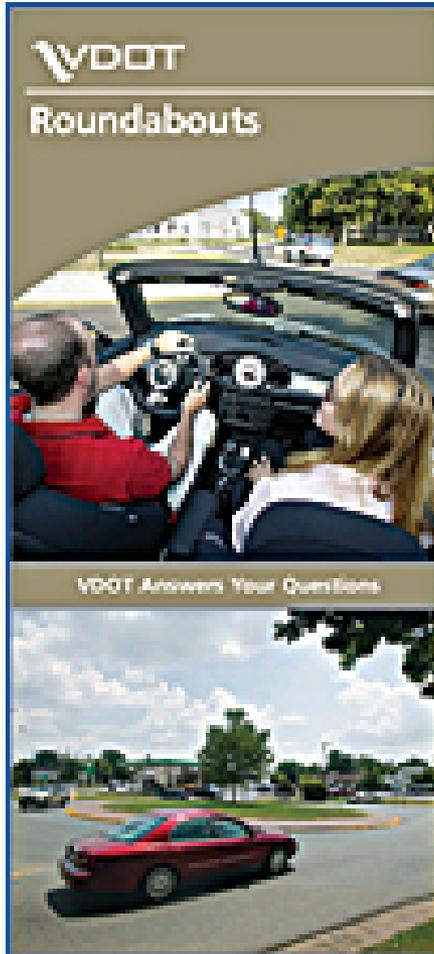
VDOT's Roundabout Brochure

<http://www.virginiadot.org/info/resources/Roundabouts.pdf>

VDOT's Roundabout Web Site

<http://www.virginiadot.org/info/faq-roundabouts.asp>

VDOT Roundabout Brochure



Roundabouts in Virginia

Why Use a Roundabout?

How to Drive Roundabout.

FHWA Roundabout Brochure

Roundabouts: A Safer Choice



What is a Roundabout?

Why consider a Roundabout?

Education is Key.

VDOT Roundabout Video

Show Video

<http://www.virginiadot.org/info/faq-roundabouts.asp>

Community Outreach

**TRB Webinar: Community Outreach: Successful Outcomes for
Roundabout Implementation
June 19, 2013**

Solutions Outreach: 3 E's

- **Engagement**
- **Education**
- **Engineering Principles**

Community Outreach

Engagement:

- **Start Conversation**
 - **Peers**
 - **Professionals**
 - **Public**
- **Build on Existing Partnerships**
- **Advocacy Groups**

Community Outreach

Education:

- **Agency Wide Trained Staff**
 - **Professional Development –**
 - **Webinars, Workshops, Conferences, etc.**
 - **Latest Publications**
 - **NCHRP Report 672 – Roundabouts: An Informational Guide, 2nd Edition**
 - **VDOT's Road Design Manual**
- **Industry Partners**
 - **FHWA, TRB, etc**

Community Outreach

Education:

- **Public**
 - **Public Meetings & Hearings**
- **Brochures**
 - **FHWA Roundabouts - A Safer Choice**
 - **VDOT Roundabouts**
- **CD's**
 - **FHWA Roundabouts – A Safer Choice**
 - **VDOT's - Driving Modern Roundabouts**
 - **VDOT's - The Virginia Experience**

Community Outreach

Engineering Principles:

- **Stay Current**
 - **Learn for Experiences**
 - **Webinars, Workshops, Conferences, etc.**
 - **Real Life Experiences**
 - **Drive**
 - **Bike**
 - **Walk**
- **Roundabout Implementation**
 - **Use Industry Best Practices**

QUESTIONS?