

National Capital Region Transportation Planning Board

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DRAFT

Seminar Outline: Designing Major Urban Thoroughfares for Walkable Communities

December 5, 2006

**DC Council Chambers
One Judiciary Square
441 4th Street NW
Washington, D.C. 20001**

**Instructor: James M. Daisa, P.E.
Kimley-Horn and Associates, Inc**

Total Time: 6 Hours and 40 minutes (excluding breaks and lunch)

Sign-in 8:30 AM

Introduction (9:00 AM - 15 minutes)

- What communities want
- Objectives
- Principles for design
- Focus of the course
- Tenets of designing walkable thoroughfares
- Placemaking as a design criteria

DC, MD, VA Department of Transportation Speakers (9:15 AM - 1 hour, 15 minutes)

- DDOT** – Ken Laden, Associate Director for Transportation Policy and Planning
- MDOT** – TBA
- VDOT** – Fred R. Hodgson

Break (10:30 AM - 10 minutes)

Thoroughfare Design and the Transportation Planning Process (10:40 AM - 15 minutes)

- Integration with planning and project development
- Network planning
- Network design principles
- Connectivity
- Network design guidelines

Design Framework (10:55 AM - 30 minutes)

- Placemaking
- The concept of context zones
- Features that create context (land use, site design, building design)

- Thoroughfare types (introducing the Boulevard, Avenue, and Street)
- Functional classification in thoroughfare design
- Design controls
- Using thoroughfare types in design
- Thoroughfare type characteristics
- Vehicle Mobility Priority thoroughfares
- Thoroughfare examples

Design Controls and Thoroughfare Design (11:25 AM - 15 minutes)

- Design controls in walkable thoroughfare design
- The concept of target speed
- Design factors that influence target speed (urban areas)
- Design vs. control vehicle
- Walkable vs. conventional thoroughfare design approach
- Speed and capacity of urban streets

Lunch (11:40 AM – 12:30 PM)

Participant Exercise (12:30 PM - 60 minutes)

Walkable Thoroughfare Design (1:30 PM - 15 minutes)

- Considerations in cross-section design
- Stages in cross-section design
- Design in constrained right-of-way
- Transitions
- Design parameters
- General parameters for vehicle mobility priority thoroughfares

Roadside Design (1:45 PM - 20 minutes)

- Roadside defined
- The urban roadside – uses and activities
- Roadside components
 - Edge zone
 - Furnishings zone
 - Throughway zone
 - Frontage zone
- Clear zones on urban thoroughfares

Traveled Way Design (2:05 PM - 20 minutes)

- The urban traveled way
- Lane width
- Medians
- Street trees
- Bicycle lanes
- Mid-block crosswalks

Break (2:25 PM – 10 minutes)

Intersection Design (2:35 PM - 30 minutes)

- Urban intersections
- General principles
- Design elements
 - Curb return radii
 - Curb extensions
 - Channelized right turns
 - Modern roundabouts

Participant Exercise (3:05 PM - 70 minutes)

Areas of Debate and Continuing Discussion (4:15 PM - 15 minutes)

- Design speed vs. target speed
- Lane widths
- Maximum number of moving lanes
- Design vehicle
- Role of level of service
- Clear zones/street trees in urban areas
- Mid-block crosswalks
- Extensive use of bike lanes

