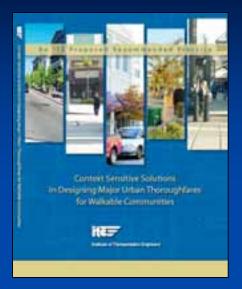
The "ITE/CNU Manual"



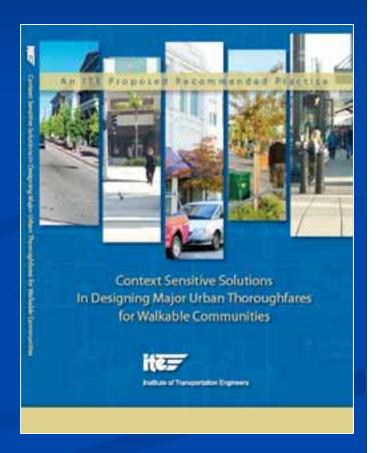
User-Initiated Changes and Implementation

Brian Bochner
Texas Transportation Institute
College Station, Texas

What is the "Manual?"

Context Sensitive Solutions In Designing Major Urban Thoroughfares For Walkable Communities

- Guidelines apply CSS to
 - Major thoroughfares
 - Urban
 - Multimodal
 - All users
 - "Walkable" areas
 - Planning
 - Design
- Proposed ITE recommendation
 - Published
 - Subject to refinement Guidelines



Sponsors

Federal Highway Administration



Environmental Protection Agency



Partner Preparers

Institute of Transportation Engineers



Congress for the New Urbanism



Context Sensitive Solutions

"...develop a transportation facility that fits into its physical setting ...while maintaining safety and mobility considering the total context within which the transportation project will exist...in harmony with the community..."

FHWA CSS website

Report Objectives

- Aid context sensitive design
- CSS principles for planning, project development
 - Network
 - Corridor
 - Project
- Create a design framework
- Present criteria and guidance
- Consistent with established guidance

Contents – Proposed Recommended Practice

- Introduction
 - Overview
- Planning
 - Network and corridor planning
 - Design framework
- Design
 - Principles, criteria, guidelines
 - Roadside
 - Traveled way
 - Intersections
 - Design in constrained rights-of-way
 - Flexibility
 - Examples



Current Status of Proposed RP

- Published March 2006
- Received nearly 850 user comments
- Comments to be addressed
- Multi-disciplinary Advisory Committee to assist
- Revised Recommended Practice for final approval expected late 2008

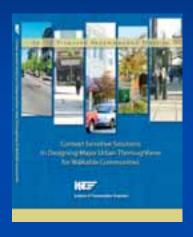


Changes to be Proposed

Clarify Role of Guidelines vs. Standards

Address "tension" between:

New guidelines



- State and local standards
- (*Not*) AASHTO
- Refer to implementation program

State DOT Manuals

Local Streets Standard s

Better Position Guidelines vs. Standards

Making headway with standards

New section: CSS # standards!

Deviation from standards # additional risk

- Designer <u>must</u> still design responsibly
 - ∨ By law
 - By ethics

Clarify Role of Guidelines vs. Standards

Must be properly promoted

- From agency perspective
- Risk
- Responsibility
- More benefit than risk



Target vs. Design Speed

- Target speed = maximum desired operating speed
- Currently proposed
 - Design speed = Target speed + 5 mph
 - Reason: speed dispersion
- Suggested
 - Design speed = target speed





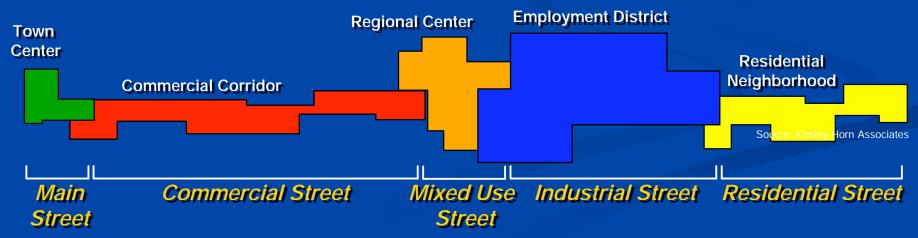
Expand Thoroughfare Types

Current types

- Boulevard
- Multi-way boulevard
- Avenue
- Street

Additional possibilities

- Define by adjacent land use
 - Main street
 - Commercial street
 - Mixed-use street
 - Residential street
 - Industrial street
- Major effort
- Discuss with Advisory Committee

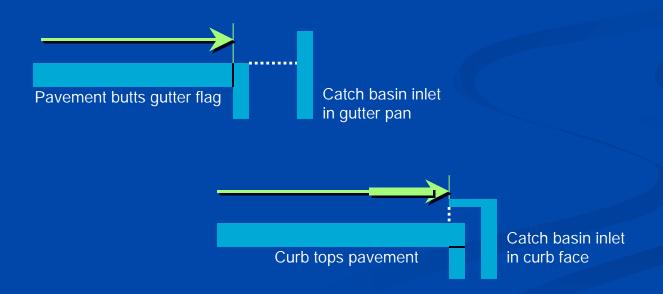


Consider Narrower Traffic Lanes and Increased Range

- Currently tables of widths by
 - Functional classification
 - Thoroughfare type
 - Context zone
 - Land use category
- Widths vary
 - Most 10-11 feet (11-12 at 35mph+)
 - A few 10-12 feet
- Request for 9 foot widths
- AASHTO
 - Minimum 10 feet for major street
 - Permits 9 feet for turn lane on <u>local</u> streets

Clarify Pavement Dimensions

- Outside limit gutter flag or curb face
- Issues
 - Drainage inlet design
 - Pavement joint with gutter flag
- Propose dimensions based on curb/inlet design
- Discuss with Advisory Committee



Clear Zones

- Chapter 8 does have clear zone section
 - Does <u>not</u> advocate clear zone width below 40mph
 - Recommends
 - Vertical curbs
 - Minimum 1_ foot setback from curb face
 - Safe sight triangles
 - Recommends 10 foot clear zone for 40+ mph

Provide Mid-Block Signalization Criteria

- Users seek MUTCD warrants or guidelines
- MUTCD signal warrant #4
 - Pedestrian volume warrant
 - Applicable to mid-block
- Add reference to MUTCD warrant #4 in midblock cross-section



Geometric Measures to Limit Speeds

Measures requested

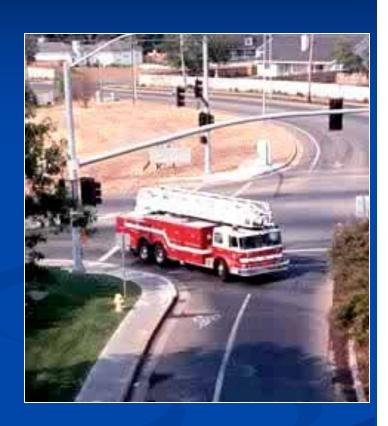
Proposing to add section

Measures

- Smaller turning radii
 - Intersections
 - Street segments
 - Narrower lanes
- Lane width
- Curb extensions
- Medians
- Alternative paving
- Street trees
- Curb parking
- Roundabouts
- Raised intersections
- Traffic signal progression
- High visibility crosswalks
- Building enclosure
- Urban design features
- Vehicle speed signs

Expand Section on Emergency Vehicles

- Chapter 9 has brief section
- Requests
 - More detail
 - Support for more restrictive geometrics
 - Precedents and examples
- Recommending to Advisory Committee



Guidelines for Small Town Main Streets

- Frequent need
- Discuss with Advisory Committee



Other Changes to be Discussed

- More and better examples
 - Photos
 - Illustrations
 - Visualizations
 - Case studies
- Many editorial refinements
- Index and more detailed table of contents
- Building location and orientation
- Section on favorable court decisions
- More on ADA polices and requirements
- Broaden section on trade-offs

Implementation Challenges

- Resistance to change
- Perceived higher cost
- Traditional performance measures (i.e., LOS)
- Lack of clear understanding of CSS
 - What is a CSS project?
 - How to measure success?
- Liability concerns



Implementation

- ITE to prepare strategy
 - Review FHWA audit
 - Conduct survey
 - Develop actions
 - Implement
 - Develop information
 - Promote acceptance



New York, NY