



ACCESS MANAGEMENT (TE-37)

COURSE OUTLINE

September 14, 15, 16, 2015. On-Line Webinar

Brought to you by the Technology Transfer Program

A division of the Institute of Transportation Studies

At the University of California, Berkeley

Philip Demosthenes, Instructor

Day One: September 14, 2015, 1:00 to 3:30 pm

12:45: Participants should sign in to Webinar. Check screen and audio.

1:30 Opening Remarks

- Introduction of Program, Instructor and Students
- Course objectives and schedule
- Review of access management resource materials and links.

Why Is Managing Access Important Today?

- Challenges in providing mobility and safety
- National and California crash facts and information
- Access management, a proven safety countermeasure

Defining access management

- Why managing access is a critical strategy
- Benefits and consequences
- AM and economic benefits
- When access is not managed
- Measuring roadway conflicts and severity

Principles & Elements in Access Management for planning and design

- Access separation, traffic signal spacing
- Reducing speed differential
- Restricting turning movements
- Minimum design, minimum safety effects
- Access classifications for roads
- Role of planners in roadway safety

Human factors - Why motorists collide

- Allowing for human errors, Driver work load and PIEV
- Modern distractions impacting design and safety factors

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- Work load and access management
- Factors in stopping sight distance

Basic legal issues in access management

- The right of property use and access
- Creating a hazard is not a right
- Exercising police powers
- Circuity of travel.

Roots of the problem, 1900 to 2000

- Early efforts and recognition of access related problems
- Invention of the “free-way”
- Early research on access and crash rates

Questions, Discussion

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Location of Major Intersections.

- If You Cannot Eliminate it - Then Design it Well
- Signal spacing issues – progression and safety
- Improving major intersection spacing
 - Parallel collectors - part of the hierarchy
 - Frontage and backage roads
 - Shopping center circulation – a circulation system
- Roundabout spacing issues and corner clearance
- Rural spacing issues
- Location and spacing in vicinity of interchanges
- Traffic circulation supporting access management

Location of Minor Intersections (no full movement assured)

- Public street access and private driveway access – what is the difference?
- Decision process - Proof of necessity
- Direct or indirect access to arterials - Using access categories
- What is reasonable access?
- Access spacing methods
- Sight distance considerations
- Corner clearance for driveways
- Median choices and effects
- Managing turning movements for safety and operation
- Factors for determining Access location
- Design from outside in

Mitigating Impacts of Access Maneuvers and Conflicts

- Demanding good design
- Reducing Speed differential
- Auxiliary turn lanes, elements, warrants, lengths
- Adjusting the design criteria by function
- Problems with inadequate turn-lane storage

Day Three: September 16, 2015, 1:00 to 3:30 pm

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Continuing with

Mitigating Impacts of Access Maneuvers and Conflicts

- Rural turn lanes
- Preserving the sight distance triangle
- Access width and turning radii
- Dustpan vs curb returns
- Throat length and alignment
- Drive Thru and Queuing Facilities
- Parking Structure Considerations
- Driveway profile including drainage
- Construction risks

Program Elements – strategies for access management implementation

- State and local agency program examples
- Establishing a need for managing access
- Winning support and determining strategies
- Planning components
- Local agency documents, laws
- Access categories, hierarchy systems
- AASHTO on access classifications
- Design element requirements
- Road and access elements by function
- Other strategies besides categories
- Structuring the decision process for greater consistency
- Access technique tool boxes

More on local strategies for access management programs

- Discuss access issues at your office
- Consider driveway permits to better manage driveway impacts
- Permitting by volume and vehicle type
- Illegal access and revocation of permits
- Corridor planning and agreements
- Consider major intersection (signal) planning
- Access management plans for corridors and interchanges

- Importance of an adopted program
- California 2013 SB 743 putting VMT assessment first
- More on local agency AM programs

Questions, Discussion

Any closing administrative issues