

Today's Speakers

Barbara McCann McCann Consulting National Complete Streets Coalition

Christopher R. Conklin Vanasse Hangen Brustlin, Inc.

Martha Roskowski, Randall Rutsch, and Mike Sweeney City of Boulder, Colorado

Joseph A. MacDonald, AICP, moderator Program Development Senior Associate American Planning Association

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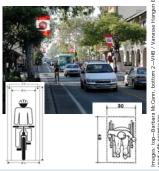




What is a complete street? What is its purpose?

Barbara McCann:

- · Safe, comfortable and convenient for travel via auto, foot, bicycle, and transit
- · Policy ensures that the entire right of way is routinely designed and operated to enable safe access for all users





- Create a complete network of roads that serves all users
- Integrate the needs of all users in everyday planning practices









Please give us some examples of incomplete streets.

Barbara McCann:



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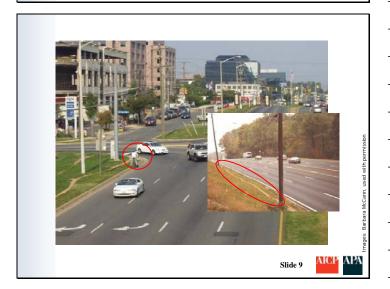


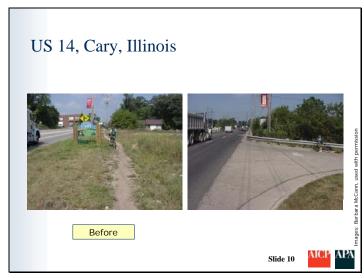














How should communities frame a complete streets policy? Barbara McCann:

- Establish vision first
- Cover all users
 - Pedestrians, bicyclists, transit vehicles and users, motorists, and travelers of all ages and abilities



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The best complete streets policies...

- · Specify exceptions
- Require high-level approval of exceptions
- Use best design standards
- Allow flexibility
- Apply to all phases of all projects



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Federal guidance

• 2000 US DOT recommended policy:

Bicycle and pedestrian ways shall be established in new construction and reconstruction projects in all urbanized areas unless one or more of three conditions are met:

Non-motorized uses are prohibited Excessive cost

Absence of need now and in future

www.completestreets.org







Institutionalize:

- Restructure procedures
- Rewrite design manuals
- Retrain planners and engineers
- Retool measures to track outcomes

Retrofit:

Identify and improve incomplete streets



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Tell us about the MassHighway Project Development and Design Guide.

Chris Conklin:

- · Policy:
 - Developed in response to citizen objections
 - New approach
- Principles:
 - Integrated multimodal approach
 - Context sensitivity
 - Clear project development process

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What were some innovations in the manual?

Chris Conklin:

- · Robust project development process
- Broad basic design controls
- Multimodalism
- Design flexibility



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What were the project development goals?

Chris Conklin:

- · Open dialogue
- · Optimum accommodation
- · Early public outreach
- Consistent expectations
- Allocate resources to address priorities

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Tell us about Boulder's complete streets policy framework.

Randall Rutsch:

- · Boulder Creek path languished
- Transportation master plan
- Hold vehicle miles traveled (VMT) steady
- Reduce single occupancy vehicle (SOV) trips
- Focus on creating multimodal corridors







Boulder Creek Plan – 1923

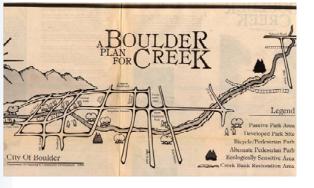


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Boulder Creek Plan – 1984



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Boulder Creek







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Transportation Master Plan

• First created in 1989: vision

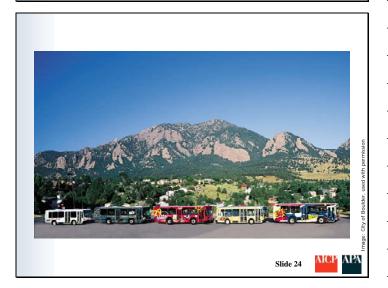
• Revised 1996: goals and measurements

• Revised 2003: implementation

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Eco Pass

- Unlimited-use bus pass
- 60,000 total passes in Boulder
- Eco Pass holders are nine times more likely to use the bus









2003 Transportation Master Plan **Multimodal Corridors**



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Can you describe a mature corridor retrofit?

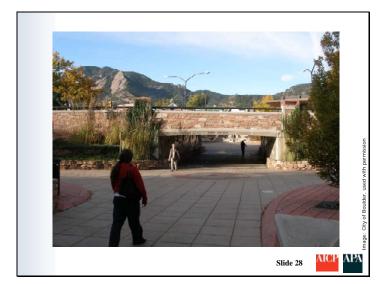
Mike Sweeney:

• Broadway corridor



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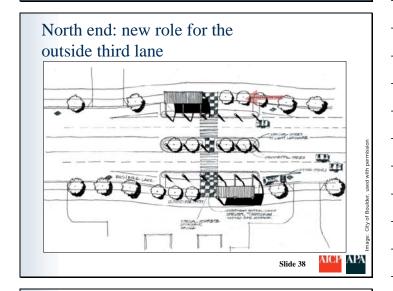














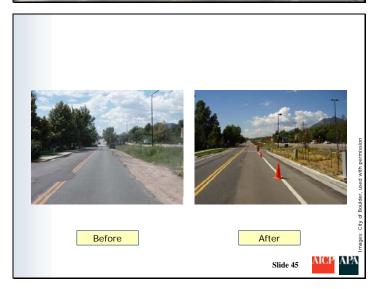


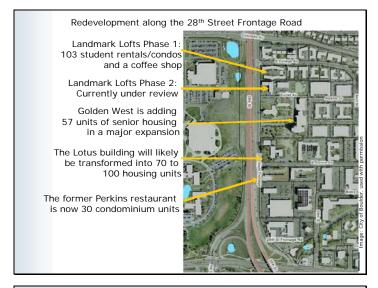












Please describe some different complete streets and their characteristics.

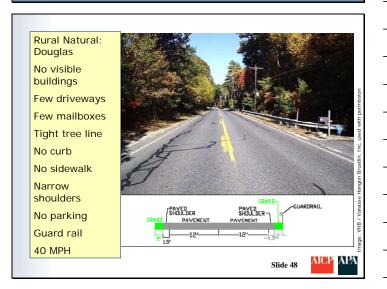
Chris Conklin:

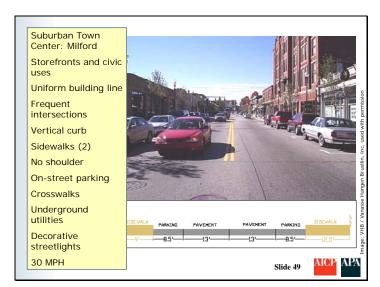
- Rural natural
- Suburban town center
- · Suburban high density

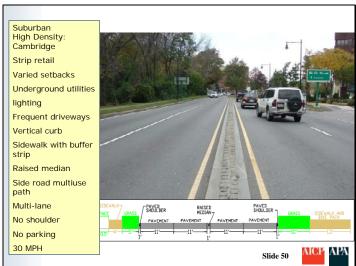
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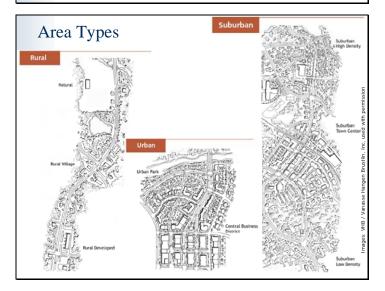


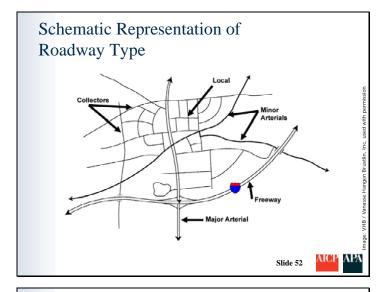












Roadway type and functional classification

- Roadway type reflects the road's role and its local context
- Functional classification is used to determine Federal funding eligibility
- Roadway type is the design control

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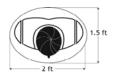




Explain the standards for each user group.

Chris Conklin:

- Pedestrians
 - Walkway at least five feet wide and clear of obstructions
 - Walking speed of 3.5 fps









Pedestrians requiring mobility aids

- 20% of the pedestrian population has some disability
- MassHighway intends to accommodate all pedestrians in the design and construction of pedestrian facilities

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Bicyclists

- Accommodating those with moderate skills will meet the needs of most riders
- Require a clear width of at least 40 inches and 100 inches of vertical operating space



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Drivers

- Largest vehicle to use facility on a regular basis should be the design vehicle
- Decisions depend on:
 - Frequency of larger vehicles
 - Amount of other traffic
 - Character of the area

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Revised design speed approach

- Choice of design speed must consider:
 - Roadway context
 - Pedestrian and bicycle safety and comfort
 - Regional mobility
- Design speed informed by existing operating speed and likelihood of change
- Flexibility allows design speeds lower, the same, or higher than existing operating speeds

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What recommendations were there for intersections?

Chris Conklin:

- Achieving a desired flow for one user group can diminish the capacity for another
- · Balanced multimodal capacity supersedes maximizing motor vehicle flow



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Landscape and **Aesthetics**

 Improve consideration of landscaping in overall design and environmental considerations



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Traffic Calming and Traffic Management

- Applicability to new and retrofit projects
- Describes four basic approaches
 - Narrow the real or apparent width of the street
 - Deflect the vehicle path
 - Alter the vertical profile of the vehicle path
 - Prevent some vehicle movements through design, regulations, or both







What were some of the lessons learned in Boulder?

Randall Rutsch:

- Change in thinking
- Limitations when transportation and land use are not fully integrated
- Coordinate efforts with regional and state efforts
- Design and integration issues:
 - Parking policies
 - Site design













How has this policy been conceived in different communities?

| | State | County | MPO | City |
|---|------------------------------------|--|--|---|
| Public: legislation, ordinance, resolution | OR, FL, RI, NC, SC, MA | DuPage, II. Sacramento, CA San Diego CA Jackson, MI | Columbus, OH Bay Area, CA | Columbia, MO Sacramento, CA Spartanburg, SC |
| Internal: policy, plans, manuals | TN, CA, KY, VA, PA, MA | | Cleveland, OH Bay Area, CA Knoxville, TN Gulf Coast, FL Austin, TX | Chicago, Charlotte, NC Boulder, CO Santa Barbara San Diego Ft. Collins, CO W. Palm Beach, FL |

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Existing Policies

- Chicago's Complete Streets Policy
- Charlotte's Street Design Standards
- Oregon's "Bike Bill"

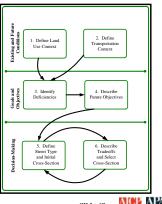
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Charlotte Transportation Action Plan

 Urban Street Design Standards have a six-step process for balancing the needs of all users



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What challenges do complete streets face in other areas of the country?

Barbara McCann:

- Implementation
 - Design manuals
 - Design speed
- Training and learning to balance
- Sidewalk responsibility
- The role of land use
- Retrofitting
- Including transit



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How can we work successfully with traffic engineers?

Mike Sweeney:

- Engineers are problem solvers
- Change the definition of the problem
- Engineering manuals support complete streets













What about the role of elected officials?

Martha Roskowski:

- · A champion with vision
- Policy leadership and support
- Ongoing commitment



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"If Christ himself were city manager of Boulder, there would be some people who would want to recall him."



Boulder civic leaderF.C. Moys, 1923







What can be replicated in other communities?

Barbara McCann:

- · Massachusetts:
 - Context sensitivity and complete streets
 - Integrates all users in every aspect of the guide
- Boulder:
 - Keeps the big picture in mind
 - Expanding capacity in time of constraint
 - Full inclusion of transit issues







Tell us about the National Complete Streets Coalition.

Barbara McCann:

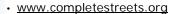
- AARP
- · America Bikes
- America Bikes
 America Walks
- American Council of the Blind
- American Planning Association
- American Public Transportation Association
- American Society of Landscape Architects
- APBP
- City of Boulder
- Institute of Transportation Engineers

- League of American Bicyclists
- McCann Consulting
- NCBW
- National Parks Conservation Association
- Natural Resources Defense Council
- Paralyzed Veterans of America
- · Smart Growth America
- Surface Transportation Policy Partnership
- Thunderhead Alliance

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- Examples and links to existing policies
- How-to tools
- Resources: PowerPoint, brochures
- Relevant research and reports
- Newsletter sign-up









Questions and Answers

Barbara McCann

Christopher R. Conklin

Martha Roskowski Randall Rutsch Michael Sweeney

Joseph A. MacDonald, AICP, moderator

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Complete Streets Conference resources online at www.planning.org/audioconference/cstreets Ask questions Fax: 312-786-6727 E-mail: education@planning.org/Cpdp CPD credit log online www.planning.org/cpdp American Planning Association American Institute of Certified Planners The Professional Institute of Certified Planners American Planning Association