Overview of Manual Revisions & Future Project Impacts

S.A.M.E. Infrastructure Forum
December 14, 2018

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Presentation Overview

• Background/History
• Street Process Manual
• Street Design Manual
• Impacts to Project Design
• Maintenance Challenges
• Example Projects
• Summary
Background/History

1993 Drainage Manual

1998 Paving Manual Update

2009 Council Adopted Integrated Stormwater Management (iSWM) guidelines on voluntary basis

2011 Complete Streets Initiative Launched

2016 Council Adopted Complete Streets Manual

Street Process Manual

- Roadmap to apply Street Design Manual, Drainage Design Manual and other City documents
Street Process Manual, continued
Street Design Manual

- Replaces Paving Design Manual
- Incorporates Envision design principles
- Encourages looking at the project as a whole and how the proposed project will contribute to conditions of sustainability
Street Design Manual, continued

• Streets are comprised of three zones:
  • Pedestrian
  • Street
  • Intersection
Street Design Manual, continued

- Green Street drainage elements:
  - Landscaping
  - Pavement
Impacts to Project Design

- Build Complete Streets that:
  - Account for All Users in the Design
  - Promote Walking and Cycling
  - Improve Water Quality
  - Improve Quality of Life
  - Promote Use of Mass Transit
    - Comfortable, ADA Compliant and Accessible
    - Bus Stops
  - Appeal Visually
  - Consider Safety of All Users
Maintenance Challenges

• Maintenance
  • Landscape Establishment Period
  • Volunteers/Businesses do Maintenance
  • Sanitation Department Picked up Slack
  • Verbal Agreements
  • Who Polices (?)
  • Looks Great for First Few Years
  • Citizen Complaints

• Need Larger Operating Budget to Assist with Landscape Establishment

• Need Enforceable Maintenance Agreement and/or Long Term Maintenance Budget Established in Perpetuity
Complete Street
Jefferson Boulevard Project

- Complete Street Components
  - Street Furniture
  - Extensive Landscaping
    - Median
    - Off-Street
  - Enhanced Traffic Calming Crosswalks
    - Mid-Block
    - Intersections
  - Upgraded Sidewalks

- New Project – Keep from Falling into Disrepair
Complete Street – Jefferson Boulevard Project, Pre- & Post-Construction Photos
Complete Street
Bishop Avenue Project

• Complete Street Components
  • Street Furniture
  • Landscaping
  • Enhanced Traffic Calming Crosswalks
  • Indented Parking
  • Wide, Upgraded Sidewalks
    • Parkway Between Sidewalk and Vehicular Lanes Provides Buffer

• Successful – Requires Minimal Maintenance
Complete Street – Bishop Avenue Project, Pre & Post-Construction Photos
Complete Street – Bishop Avenue Project, Pre & Post-Construction Photos
Complete Street – Bishop Avenue Project, Post-Construction Photos
Complete Street – Bishop Avenue Project, Post-Construction Photos
Complete Street
Bexar Street Project

- Complete Street Components
  - Enhanced Crosswalks
  - Landscaping
  - On-Street Parallel Parking
  - Sidewalks

- Successful – Requires Minimal Maintenance
Complete Street – Bexar Street Project, Post-Construction Photos
Complete Street – Bexar Street Project, Post-Construction Photos
Complete Street – Bexar Street Project, Post-Construction Photos
Complete Street
Lower Greenville Project

• Complete Street Components
  • Street Furniture
  • Extensive Landscaping
  • Enhanced Traffic Calming Crosswalks
  • Indented Parking
  • Wide, Upgraded Sidewalks
  • Traffic Calming
  • Lane Diet

• Challenges
  • Multiple Phases
  • Verbal Maintenance Agreements w-Property Owners
  • Citizen Complaints
Complete Street - Lower Greenville Project, Pre-Construction Photos
Complete Street - Lower Greenville Project, Post-Construction Photos
Complete Street - Lower Greenville Project, Post-Construction Photos
Complete Street
Deep Ellum/Elm Street Project

• Complete Street Components
  • Street Furniture
  • Extensive Landscaping/Rain Gardens
  • Enhanced Traffic Calming Crosswalks
  • Indented Parking
  • Wide, Upgraded Sidewalks
  • Traffic Calming
  • Lane Diet

• Challenges
  • Maintenance Agreement w-Deep Ellum Foundation
  • Citizen Complaints
Complete Street – Deep Ellum/Elm Street Project, Post-Construction Photos
Complete Street – Deep Ellum/Elm Street Project, Post-Construction Photos
Complete Street – Deep Ellum/Elm Street Project, Post-Construction Photos
Complete Street
Congo Street Project

• Complete Street Components
  • Bioswale
  • Landscaping
  • Permeable Pavement

• Challenges
  • Residential Street
  • No Maintenance Agreements
Complete Street – Congo Street Project, Pre- & Post-Construction Photos
Complete Street – Congo Street Project, Pre- & Post-Construction Photos
Complete Street
Herbert Street Project

• Complete Street Components
  • Crosswalks at Bumpouts
  • Landscaping
  • Indented Parking
  • Sidewalks

• Challenges
  • Residential Street
  • No Maintenance Agreements
Complete Street – Herbert Street Project, Pre- & Post-Construction Photos
Complete Street – Herbert Street Project, Pre- & Post-Construction Photos
Complete Street – Sylvan Avenue Project, Post-Construction Photos

- Crosswalks
- Extensive Landscaping
- Indented Parking
- Sidewalks
Complete Street – Cedar Springs Road Project, Post-Construction Photos

- Enhanced Crosswalks
- Extensive Landscaping
- Sidewalks
Complete Street – Routh Street Project, Post-Construction Photos

- Enhanced Crosswalks
- Enhanced Intersection
- Landscaping
- Sidewalks
Complete Street – Dickerson Road Project, Post-Construction Photos

- Landscaping
- Sidewalks
Summary

Not a “One Size Fits All” Interpretation

• Requires Compromise to Accommodate More Uses
• Requires Additional and Varying Maintenance
  • Life Cycle Costs
• Requires Us to Design for the Foreseeable Future
• Requires Consideration of:
  • Environmental Quality
  • Economic Development
  • Quality of Life
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