

# Memorandum



CITY OF DALLAS

DATE December 4, 2017

TO Honorable Members of the Mobility Solutions, Infrastructure and Sustainability Committee

SUBJECT **Street and Drainage Design Manual Updates**

On Monday, December 11, you will be briefed on updates to the City's street and drainage design manuals. The briefing materials are attached for your review.

Please feel free to contact me if you have any questions or concerns.

A handwritten signature in blue ink, appearing to read 'Majed A. Al-Ghafry'.

Majed A. Al-Ghafry  
Assistant City Manager

[Attachment]

c: Honorable Mayor and Members of the City Council  
T.C. Broadnax, City Manager  
Larry Casto, City Attorney  
Craig D. Kinton, City Auditor  
Billierae Johnson, City Secretary (Interim)  
Daniel F. Solis, Administrative Judge  
Kimberly Bizer Tolbert, Chief of Staff to the City Manager  
Jo M. (Jody) Puckett, Assistant City Manager (Interim)

Jon Fortune, Assistant City Manager  
Joey Zapata, Assistant City Manager  
M. Elizabeth Reich, Chief Financial Officer  
Nadia Chandler Hardy, Chief of Community Services  
Raquel Favela, Chief of Economic Development & Neighborhood Services  
Theresa O'Donnell, Chief of Resilience  
Directors and Assistant Directors

# Street and Drainage Design Manual Updates

**Mobility Solutions, Infrastructure &  
Sustainability Committee**

**December 11, 2017**

**Chris Turner-Noteware, P.E.  
Assistant Director  
Department of Public Works**



# Presentation Overview

- Background
- New policy development
- Significant changes to street and drainage manuals
- Next steps

# Background

- 1993: Drainage Manual last updated
- 1998: Paving Manual last updated
- 2009: Council adopted Integrated Stormwater Management (ISWM) guidelines on a voluntary basis
- 2011: Complete Streets Initiative launched
- 2016: Council adopted Complete Streets Manual

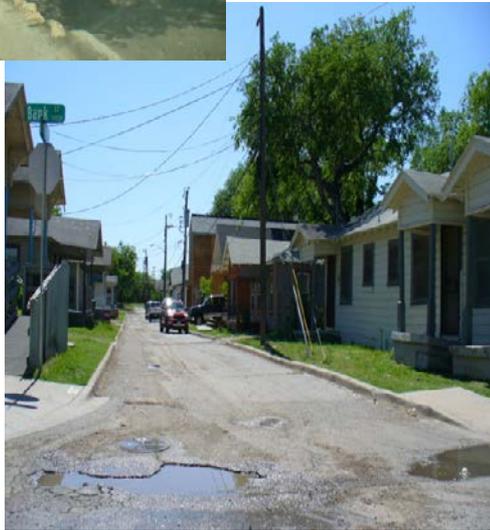
# New Policy Development

- Consultant design contract awarded in 2016 for new policy development:
  - Ensure consistency with Complete Streets Manual and regional ISWM guidelines
  - Incorporate Envision principles
  - Solicit public input
  - Provide training on new manuals
- In progress:
  - Pilot projects using Complete Streets approach
  - Test design elements with community input

# Examples of Use



Before



After



# Street Process Manual

- New Street Process Manual

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

*CITY OF DALLAS*

*THOROUGHFARE PLAN*





# Street Design Manual

- Replaces the Paving Design Manual
- Incorporates Envision design principles



**QUALITY  
OF LIFE**  
13 Credits



**LEADERSHIP**  
10 Credits



**RESOURCE  
ALLOCATION**  
14 Credits



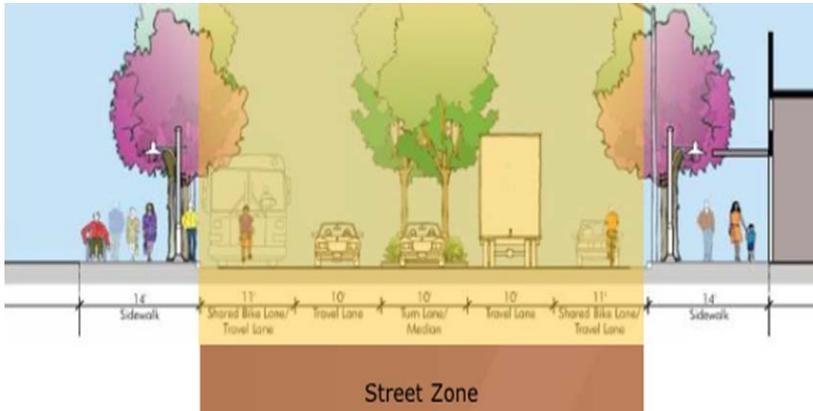
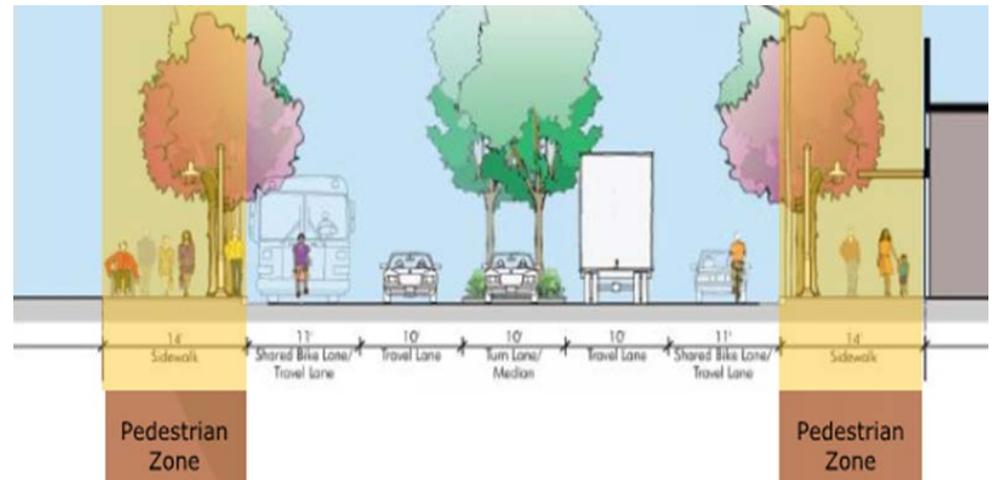
**NATURAL  
WORLD**  
15 Credits



**CLIMATE  
AND RISK**  
8 Credits

# Street Design Manual, cont.

- Streets are comprised of three zones:
  - Pedestrian
  - Street
  - Intersection



# Street Design Manual, cont.

- Green Street drainage elements
  - Landscaping
  - Pavement



# Drainage Design Manual

Updates to the Drainage Design Manual reflect:

- Current engineering practices
  - Methods, models, and application
- State and federal requirements
  - TPDES rather than NPDES construction permit requirements
  - Environmental requirements such as freshwater mussel surveys



# Drainage Design Manual, cont.

Updated methodologies:

- Incorporate/standardize regional integrated stormwater design practices
- Review of development system impacts
- Incorporate more sustainable design into all sites/projects where practicable



# Drainage Design Manual, cont.

Retains existing requirements for:

- 100-year design with higher standards for developing in/near floodplains
- Evaluating development impacts to existing infrastructure
- Addressing development impacts through storage or upsizing existing infrastructure



# Next Steps

Task	November	December	January	February	March	April	May
Incorporate comments	Active						
Provide final draft manuals		Active					
Outreach (technical and development)			Active	Active			
Finalize manuals				Active	Active		
Council adoption						Active	
Community training							Active
Staff training							Active

# Next Steps, cont.

- Complete updates
- Spring 2018: Council approval and adoption of manuals
- Begin using for street and drainage project design, including 2017 Bond Program projects

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