

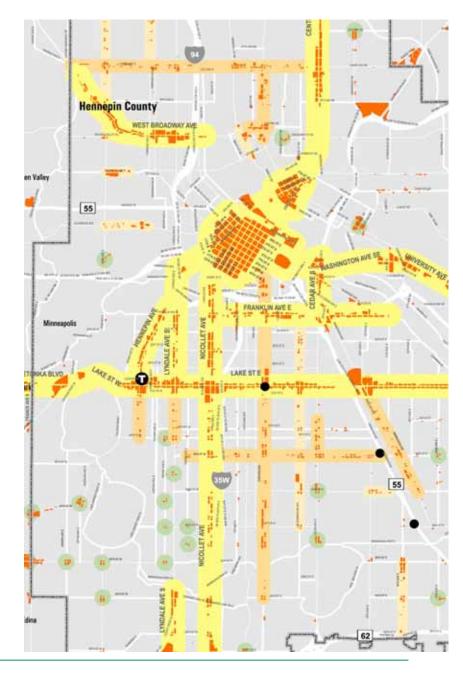
# Place-based Network Design

## Framework for Minneapolis

## Presenter: Fred Dock

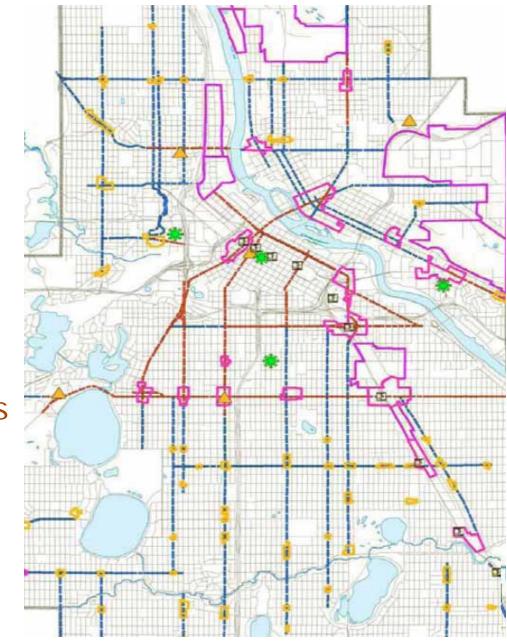


- Minneapolis, MN
- Place-based network used to redirect transportation plan
- Retrofit of existing network in a built urban environment





- Drew from existing Place Types in Minneapolis Plan
  - Activity Centers
    - Growth Centers
  - Commercial Corridors
  - Community Corridors
  - Neighborhood
     Commercial Nodes
  - Neighborhoods





- Introduced concept of Place-based street types as an alternate to Functional Class
- Street Types developed from
  - Inventory of existing rights of way
  - Analysis of form and function

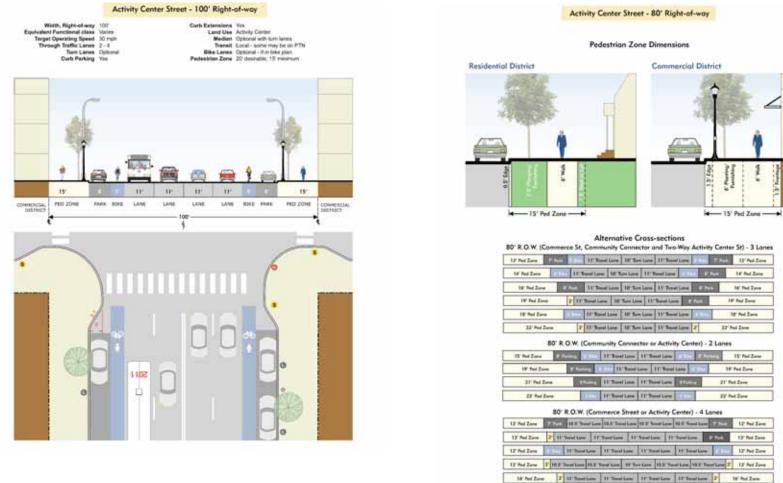
- Nine types developed
  - Commuter Street
  - Commercial Street
  - Activity Area Street
  - Community Connector
  - Neighborhood
     Connector
  - Industrial Connector
  - Parkway Street
  - Local Street

– Alley





# Design Guidance

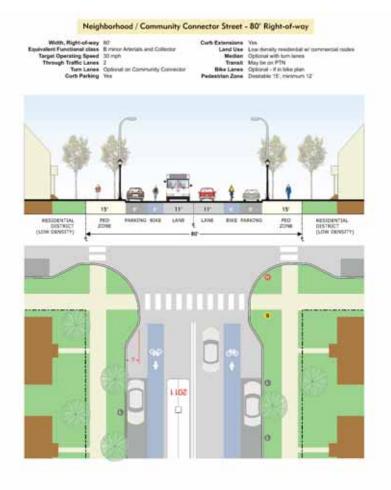


= Curb & Gutter

CNU Transportation Summit | Charlotte, NC | November 6-8, 2008



# Design Guidance





Neighborhood / Community Connector Street - 80' Right-of-way

Alternative Cross-sections

IT Put Iane 7.5	A THE RUSSESS	ana 10 Tan	H' Beet Love	1200	13' Red Zone
14' Pail Zoon	and H'Southern	10 Tan Loop 11	Seeline	T fee	14' Ped Love
16' foi Zane	Plan II Series	- 10%-	H Book Lone	E'het	18 Ped Zone
19" Pol Zame	2 It Beellaw	If Realized	Theatime C	Red L	19" Ped Zone
IF Pod Zane	A Const HT Report is	ana iti Tura	11 Travel Land		HF Ped Zane
22 Ped Love	2 IT Band 5	ana Ill'Ros	IP Sent Land	7 1	7 Peri Loto

80' R.O.W. (Community Connector) - 2 Lones

13' fed Zone	d Real	12.77	H Bardlane	11 Torol Love	Ellis Plane	15' Ped Zore
TP Ped Zone & Panala		11 Testian IV Testian			19 Ped Zone	
21' Ped Zane		( ******	11 Sever Lane	10 Band Lane	and the second	IV Ped Zone
23' Ped Zare		1	11-Teoritane	II Tool Love	1100	23' Ped Zone

= Curb & Gutter



# Network Basis

- Commuter Street
- Commercial Street
- Activity Area Street
- Connector Street
- Community Connector
- Neighborhood Connector
- Industrial Connector
- Parkway Street
- Local Street
- Alley

- Boulevard
- Avenue
- Local (T5/T6)
- Connector
- Connector
- Connector (Local)
- Special (Local)
- Special (Local)
- Local (T4)
- Alley



# Network Connectivity

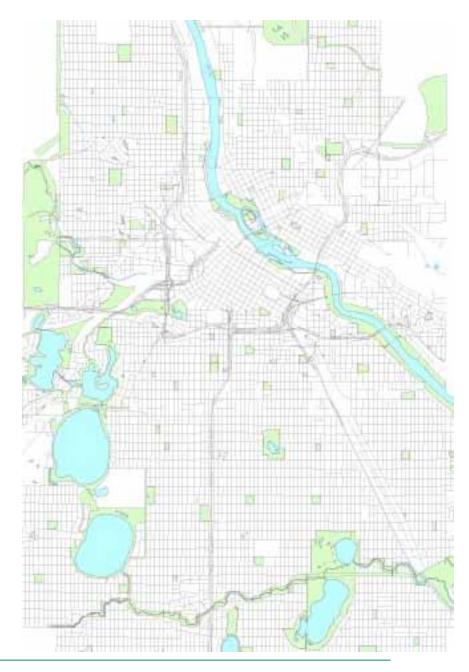
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#### Street Network

- Two Grid Systems
  - 300 by 600 feet
  - 300 by 300 feet
- Rights of Way
  - 60 feet
  - 66 feet
  - 80 feet
  - 100 feet





- Activity Area Streets
  - Can be One-Way
  - Can be more than two lanes





- Activity Area Streets
- Commuter Streets
   No Frontage





- Activity Area Streets
- Commuter Streets
- Industrial
  - Accommodate Trucks





- Activity Area Streets
- Commuter Streets
- Industrial
- Parkway Streets
  - Low Speed
  - No Frontage
  - Adjacent to park land



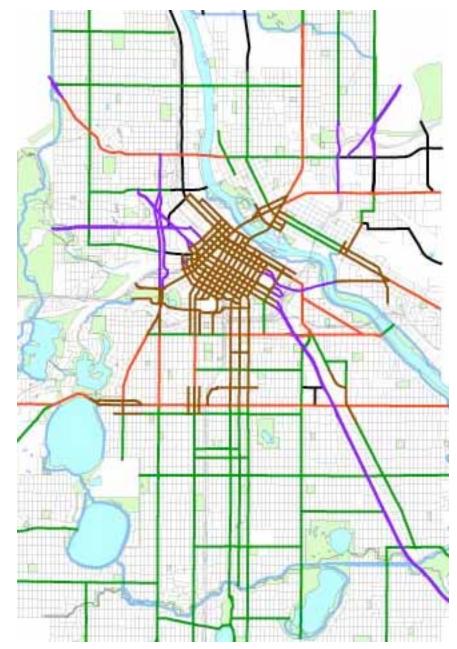


- Activity Area Streets
- Commuter Streets
- Industrial
- Parkway Streets
- Commercial Streets
  - Avenues (four lanes)
  - Commercial Corridors





- Activity Area Streets
- Commuter Streets
- Industrial
- Parkway Streets
- Commercial Streets
- Community Connectors
  - Connect Districts
  - Three lane





- Activity Area Streets
- Commuter Streets
- Industrial
- Parkway Streets
- Commercial Streets
- Community Connectors
- Neighborhood
   Connectors
- Local Streets





#### Network Character

- \_ to 1 mile spacing of Connector Streets
- Define corridors that serve neighborhood commercial nodes
- Provide corridors to serve transit network and bicycle network
- Pedestrian network is continuous throughout

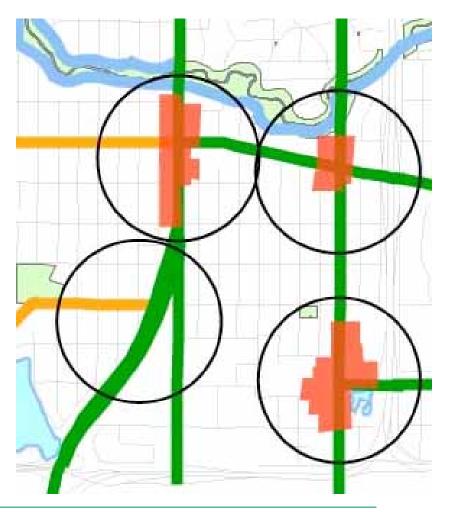




- Neighborhood
   Commercial Nodes at
   Connector Intersections
- \_ to \_ mile from neighborhood areas

FOR THE

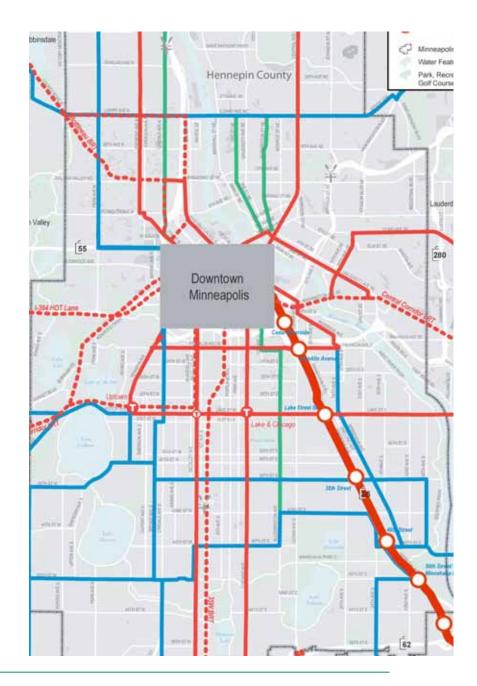
 Near continuous coverage of walkable access to retail/services





## Transit Network

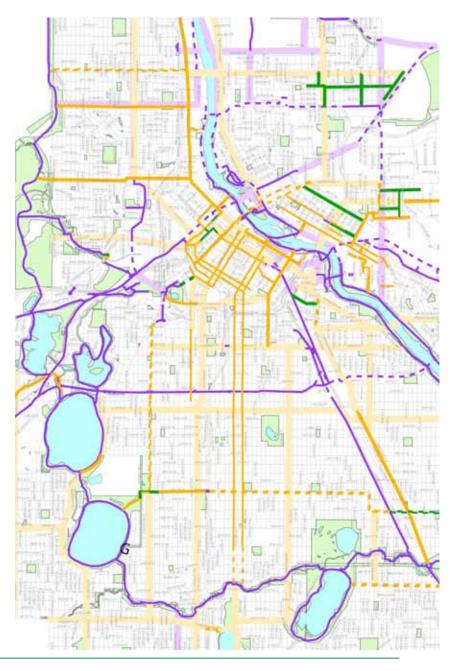
- Primary Network
  10 minute headways
- Follows Connector and Commercial Streets
- LRT (and BRT) along Commuter Streets





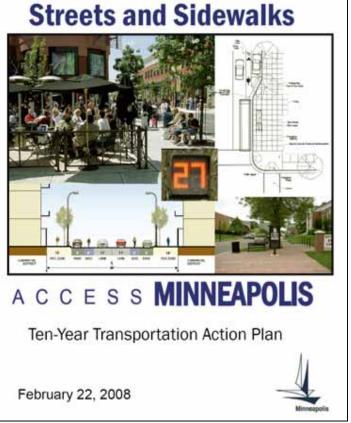
## **Bicycle Network**

- Follows Connectors and Parkways
- Combination of on and off-street









**Design Guidelines for** 

http://www.ci.minneapolis.mn.us/public-works/transplan/DesignGuidelines\_StreetsSidewalks\_022708.pdf