# Safety

## **Local Residential Streets**



A presentation to the Dallas City Council and Planning Commission



By Matt Crall State of Oregon



## Narrow Standards for Local Residential Streets

#### Topics:

- Benefits of Narrow Streets
- Principles of Narrow Streets
- Recent Examples
- State Involvement: Transportation Planning Rule

# Benefits of Narrow Streets

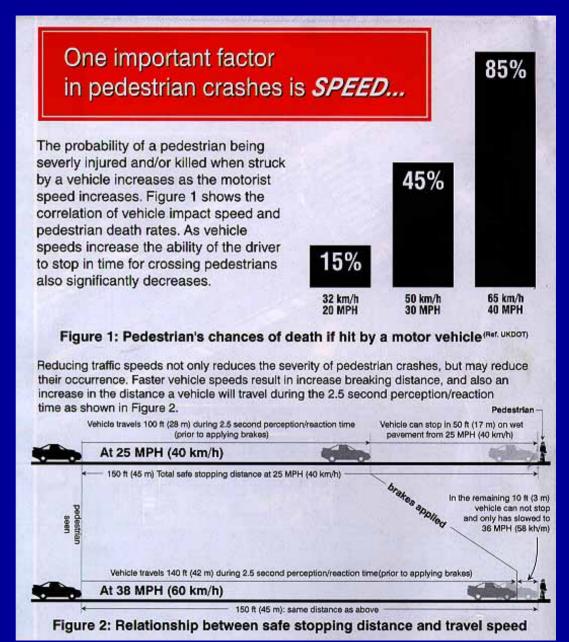


- Safer
- Traffic calming lower speeds
- Multi-modal encourage walking & biking
- High quality neighborhood encourages socializing
- Less costly to build and maintain
- Less land used less land taken off tax rolls
- Less pavement less stormwater runoff
- Less heat build up better tree canopy

#### **Benefits of Narrow Streets**

#### Narrow streets are safer:

- Shorter crossing distance -> Fewer pedestrian crashes
- Slower speeds -> Crashes less fatal



#### **Benefits of Narrow Streets**

Which street would you prefer to live on?



- Grid network
- Emergency access
- Queuing
- Parking
- Cross sections from Neighborhood Street Design Guidelines
- Where to go Wider



#### NEIGHBORHOOD STREET DESIGN GUIDELINES

An Oregon Guide for Reducing Street Widths

A Consensus Agreement by the Stakeholder Design Team

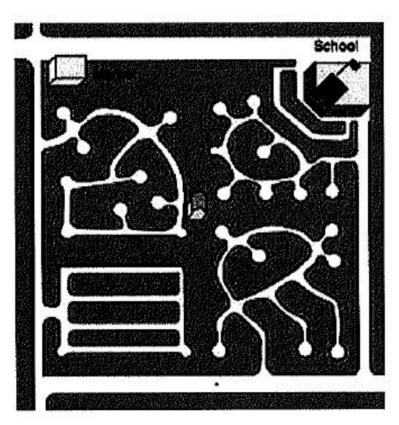
> November 2000

Prepared by the Neighborhood Streets Project Stakeholders

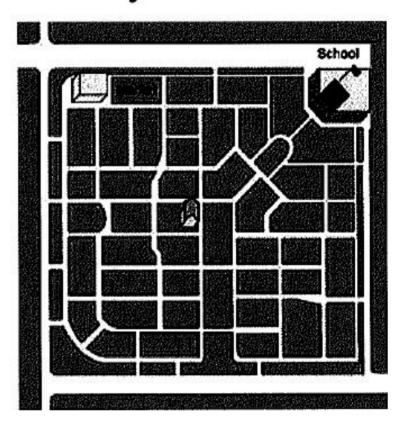


connected with relatively short blocks.

#### **Street Connectivity**



**Limited Street Connections** 



**Well-Connected Street Network** 





Emergency vehicles should have room to access streets and set up equipment.

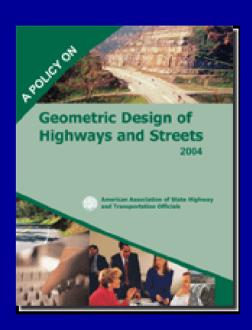
## Queuing

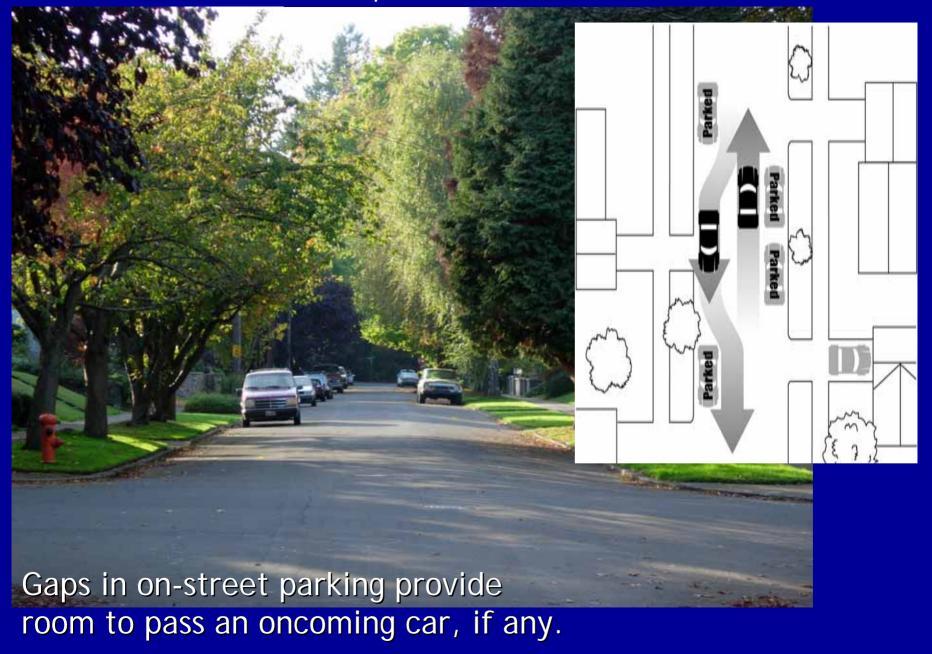
How can one lane serve traffic both ways?

"Opposing conflicting traffic will yield and pause on the parking lane area until there is sufficient width to pass."



"The level of user inconvenience occasioned by the lack of two moving lanes is remarkably low"







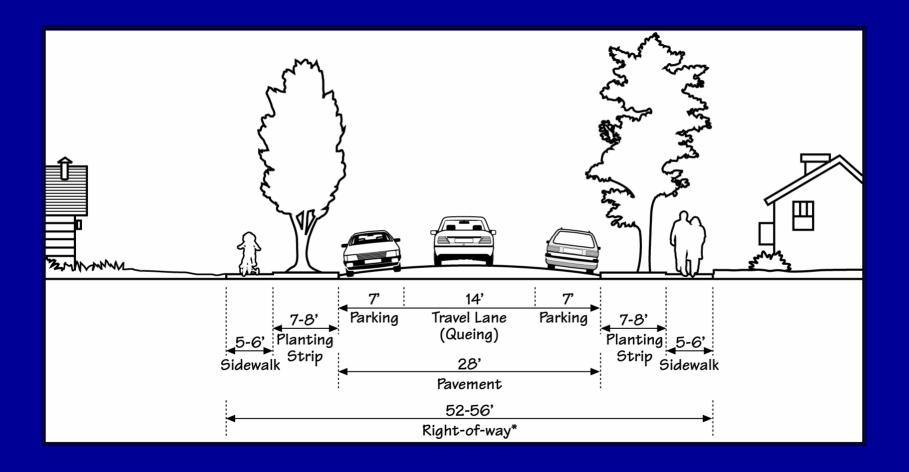
Parking should be prohibited at intersections.

#### Neighborhood Street Design Guidelines



28-foot wide - Parking on both sides

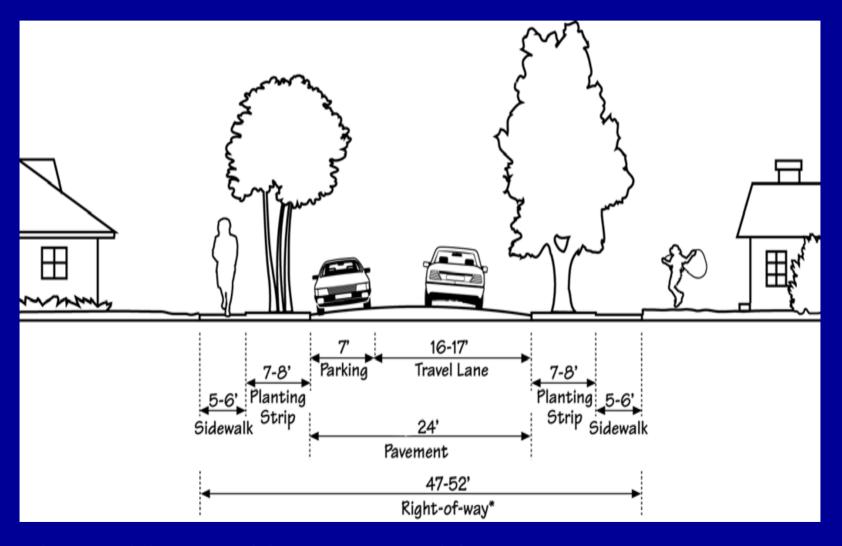
#### Neighborhood Street Design Guidelines



#### Neighborhood Street Design Guidelines



#### Neighborhood Street Design Guidelines



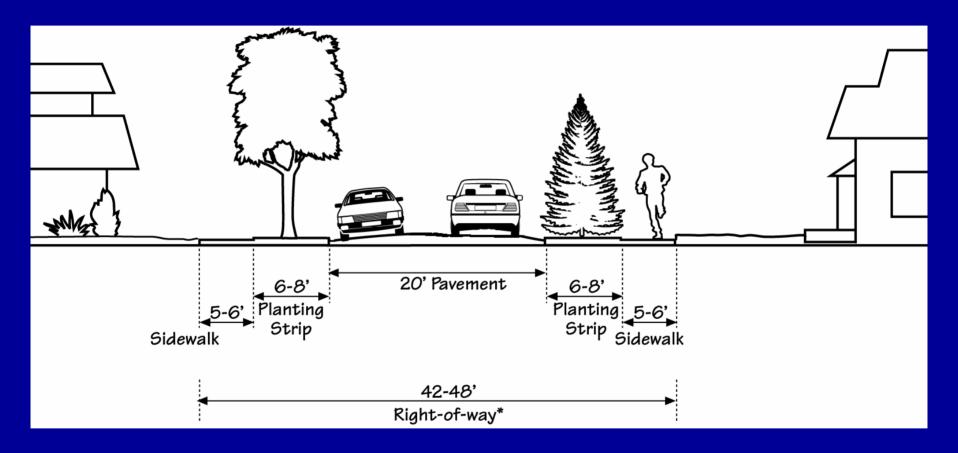
24-foot wide - Parking on one side

#### Neighborhood Street Design Guidelines



(less dense neighborhood)

#### Neighborhood Street Design Guidelines



20-foot wide - No on-street parking (less dense neighborhood)

## Wider Streets are Appropriate for:

- High-density neighborhoods
- Higher-volume, "neighborhood" collector or "subcollector"
- Evacuation routes
- Farm equipment access roads



#### **Recent Examples**

20 ft



Redmond

Jacksonville

#### Recent Examples

26 ft —



Bend

Fairview

#### **Recent Examples**



Northwest Crossing, Bend

#### State Involvement:

## Transportation Planning Rule (TPR)

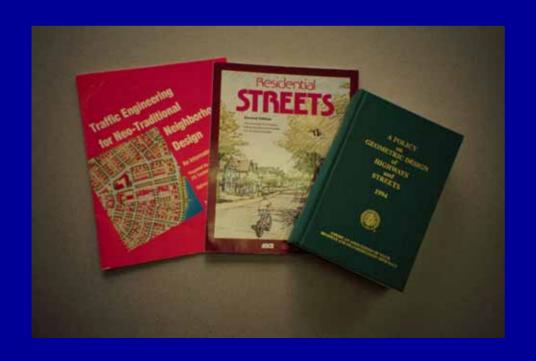
- Adopted 1991 by the Land Development and Conservation Commission (LCDC)
- Consistent planning for land use and transportation
- Planning for all modes
- Encourage pedestrian-friendly development
- No specific mention of local street standards



Local governments requiring wide local residential streets



# National research recommending narrow streets



ITE

ULI

**ASCE** 

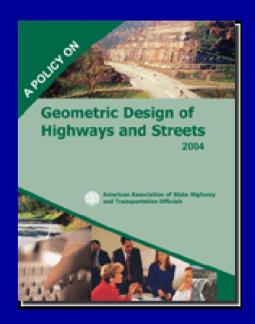
**NAHB** 

**APA** 

**AASHTO** 

# AASHTO recommends narrow streets:

- Where?
  - "On residential streets where the primary function of the street is to:
    - provide <u>access</u> to adjacent development and
    - •foster a safe and
    - •pleasant environment"



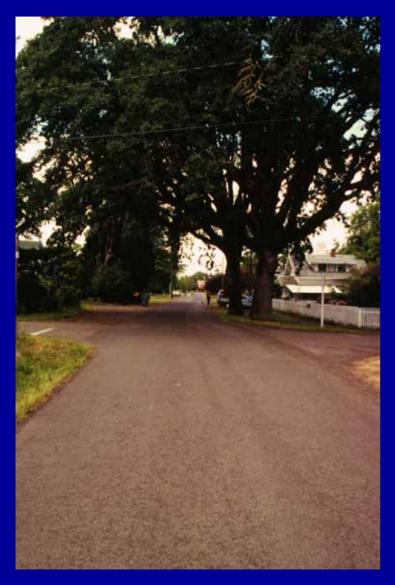
What is required?
 "at least one unobstructed moving lane must be ensured even where parking occurs on both sides."

National Examples



Kentlands

Celebration



Oregon Examples



Corvallis

Yamhill

# Transportation Planning Rule (TPR) -1995 Update -

#### Requirement

"Local governments shall establish standards for local streets and accessways that <u>minimize</u> pavement width and total right-of-way consistent with the <u>operational needs</u> of the facility."

Oregon Administrative Rule 660-012-0045 (7)

# Transportation Planning Rule (TPR) -1995 Update -

#### <u>Intent</u>

- "...consider and reduce excessive standards for local streets and accessways in order to
- reduce the cost of construction,
- provide for more efficient use of urban land,
- provide for emergency vehicle access while
- discouraging inappropriate traffic volumes and speeds, and which
- accommodate convenient pedestrian and bicycle circulation."

Oregon Administrative Rule 660-012-0045 (7)

### Guidance to local governments

- Avoid "one size fits all" approach
- Allow as little as 28-foot street for most residential streets
- Justify local residential standards based on operational needs
- Eliminate code barriers to narrow streets

#### **Further Information**

- Transportation & Growth Management www.oregon.gov/LCD/TGM/ (look for Local Street Planning)
- Matt Crall
   matthew.crall@state.or.us
   503-373-0050 x272
   Department of Land Conservation
   and Development
   635 Capitol St. NE, Suite 150
   SALEM OR 97301-2564







