

## Alternative Pedestrian Walkways Cut Sheet Draft

## 22.Feb. 18



## Contextual information for Alternative Pedestrian Walkways

|  |  | Max | Max | Safe | Traffic |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Alternative street type | Roadway classification | daily vehicles | posted speed | Routes Applicability | calming may be required | Unit cost |
| Pedestrian or Shared Use Path | N/A | N/A | N/A |  |  |  |
| Shared local street | Local | 500 | 5 mph | with 15 mph design speed | Yes |  |
| Advisory Shoulder | Local | $3000$ | 25 mph | 500 daily vehicles, local streets only | Yes |  |
| Safer Shoulder | Local, Collector, Arterial |  | 25 mph | 500 daily vehicles | Yes |  |
| Separated Walkway | Local, Collector, Arterial | N/A | N/A | w/posted speed <br> of 20 mph |  |  |
| Walkway, one side | Local, Collector, Arterial | N/A* | 25 mph | w/posted speed <br> of 20 mph | Yes |  |

[^0]
## Pedestrian or Shared Use Path



This illustration depicts a 6-14 ft wide pedestrian or shared-use path.

## DESCRIPTION

A Pedestrian or Shared Use Path is on right-of-way independent from motorized vehicular traffic. At narrow widths, these paths are appropriate for pedestrian-only use. Where more width is available, the connection may be designed for bicycle and pedestrian use.

APPLICATION

| Roadway classification | N/A |
| :--- | :--- |
| Max vehicle volume | N/A |
| Max posted speed | N/A |
| Safe Routes applicability | Yes |
| Traffic calming may be required | N/A |

Unit cost (\$ per mile)

## ACCESSIBILITY

A pedestrian and bicycle connection is intended for use by pedestrians and must meet accessibility guidelines for walkways. The surface must be stable, firm and slip resistant, meet clear width requirements, with minimal cross slope. Running slope may follow that of the right-of-way corridor, but should be less than 5\% where possible.

KEY DESIGN ELEMENTS

1 A pedestrian-only connection should be designed to support side-by-side walking:

- 10 ft width preferred;
- 6 ft width minimum;

When intended for use by bicyclists, increased width is required:

- 14 ft width preferred;
- 10 ft width minimum.

OPTIONAL D-IGN ELEMENTS

Pay special attention to roadway crossings, including

3

Lighting may be recommended along transportation pathways, for safety and security.

5
In areas of steep slopes and topographical constraints, a staircase may be appropriate to establish a pedestrian connection.

## Shared Local Street



## DESCRIPTION

A Shared Local Street is designed to serve pedestrians, bicyclists, and motor vehicle traffic in the a shared slow-speed travel area. On very low-volume and low-speed streets, pedestrians and bicyclists are comfortable using the roadway with the occasional vehicle.

## APPLICATION

| Roadway classification | Local |
| :--- | :--- |
| Max vehicle volume | $\mathbf{5 0 0}$ vehicles per day |
| Max posted speed | $\mathbf{1 5 ~ m p h}$ |
| Safe Routes applicability | with $\mathbf{1 5} \mathrm{mph}$ design speed |
| Traffic calming may be required | Yes |

Unit cost (\$ per mile)

Defined as a "Narrow Residential Roadway" by ORS 801.368.

## ACCESSIBILITY

Shared Local Streets are intended for use by pedestrians, and must meet accessibility guidelines. The surface must be stable, firm and slip resistant, meet clear width requirements, with minimal cross slope. Running slope may follow that of the right-of-way corridor, but should be less than $5 \%$ where possible.

KEY DESIGN ELEMENTS

Total paved roadway area may vary from 16 ft to 18 ft .

- 18 ft width maximum;
- 16 ft width minimum.

2
No markings should be used to delineate travel lanes.
(3) 15 MPH speed limit must be posted.

Signs must be posted indicating shared street conditions. A PEDESTRIAN (W11-2) warning sign with ON ROADWAY legend plaque.

5 Traffic calming may be required to create slow operating conditions.

## PTIMAL DESIGN ELEMENTS

Parking is optional, and may be provided on-street or on an unpaved shoulder area.

7
Trees may be planted within the shoulder area at regular intervals to visually and physically narrow the corridor, add to the aesthetic environment, and encourage slow speeds.

## Advisory Shoulder



## DESCRIPTION

An Advisory Shoulder creates usable space for pedestrians and bicyclists on a roadway that is otherwise too narrow to accommodate seperate facilities. The shoulder is delineated by broken white pavement markings. Motorists may only enter the shoulder when no pedestrians or bicyclists are present and must overtake these users with caution due to potential oncoming traffic.

APPLICATION

| Roadway classification | Local |
| :--- | :--- |
| Max vehicle volume | $\mathbf{3 0 0 0}$ vehicles per day |
| Max posted speed | $\mathbf{2 5 ~ m p h}$ |
| Safe Routes applicability | 500 vehicles per day, <br> residential streets only |
| Traffic calming may be required | Yes |
| Unit cost (\$ per mile) |  |

Advisory Shoulder striping is experimental at this time, and may require participation in the FHWA Request to Experiment process (MUTCD 2009, Sec. 1A.10).

KEY DESIGN ELEMENTS
1 Use a broken lane line to delineate the advisory shoulder*.

In general, do not mark a center line on the roadway. Short sections may be marked with a center line to separate opposing traffic flows at specific locations, such as around curves, over hills, and on approaches to controlled crossings. At these locations widen the paved roadway surface to provided a dedicated shoulder space.

## OPTIONAL DESIGN ELEMENTS

3 Use an unmodified Two-Way Traffic warning sign (W6-
3) to clarify two-way operation of the road.

Create contrast between the shoulder and the

Periodically use traffic calming measures that protect and give priority to pedestrians and bicyclists.

## ACCESSIBILITY

When advisory shoulders are intended for use by pedestrians, they must meet accessibility guidelines.

## Safer Shoulders



2
SHOULDER OPTIONS


## DESCRIPTION

Safer Shoulders are paved roadway shoulders, delineated with lane striping, intended to provide interim or temporary pedestrian accommodation on roadways lacking sidewalks. They are not intended to be a permanent alternative to sidewalks and will often fill short gaps between other higher quality facilities.

APPLICATION

| Roadway classification | Local, Collector, Arterial |
| :--- | :--- |
| Max vehicle volume | $\mathbf{3 0 0 0}$ vehicles per day |
| Max posted speed | $\mathbf{2 5 ~ m p h}$ |
| Safe Routes applicability | $\mathbf{5 0 0}$ vehicles per day |
| Traffic calming may be required | Yes |

## Unit cost (\$ per mile)

KEY DESIGN ELEMENTS
Safer Shoulders should be designed to support side-by-side walking within the lane. Because of the lack of physical separation, additional width beyond this should be included for comfort.

- 8 ft width preferred;
- 5 ft width minimum.

2. When intended for use by bicyclists, safer shoulders should have increased width and marked to distinguish user zones:

- 8 ft wide, and marked to distinguish user treads;
- a 10 ft width is preferrred.

Mark a double white line between travel lanes and shoulder walkway. Where extra space is available, mark as buffer separation.

## ACCESSIBILITY



Prohibit vehicles from parking on Safer Shoulder (e.g. R8-1 No Parking sign).

TIONAL DESIGN ELEMENTS
Provide traffic calming elements when speed and by pedestrians and must meet accessibility guidelines for walkways*. Any deficiencies in meeting ADA guidelines during implementation as a restriping project should be identified in the ADA transition plan and be corrected in the next resurfacing. Pedestrian lanes are an interim facility; a full sidewalk construction should be planned for future implementation.

Tactile warning surface indicators may be used to indicate intersection crossing areas.

[^1]
## Separated Walkway



## DESCRIPTION

A Separated Walkway provides a physically separated pedestrian space on both sides of the road.

APPLICATION

| Roadway classification | Local, Collector, Arterial |
| :--- | :--- |
| Max vehicle volume | N/A |
| Max posted speed | N/A |
| Safe Routes applicability | w/posted speed <br> of 20 mph |

Traffic calming may be required

## Not required

Unit cost (\$ per mile)

This facility is not appropriate in areas classified as Pedestrian Districts. This facility must meet the City's crossing spacing standard of a crossing every 800 ft .

ACCESSIBILITY
A Separated Walkway is an on-roadway facility intended for use by pedestrians and must meet accessibility guidelines for walkways.

## KEY DESIGN ELEMENTS

The Separated Walkway should be designed to support side-by-side walking:

- 8 ft minimum width preferred;
- 6 ft minimum width;
(2)

When intended for use by bicyclists, increased width is required:

- 12 ft minimum width preferred;
- 10 ft minimum width;

A wide variety of separation methods exist, depending on right-of-way width, drainage, and cost.

- Physical elements such as parking wheel stops, delineator posts, or traffic separators may establish physical separation within a space of 1-3 ft.
- Unpaved separation, such as a gravel shoulder, vegetated shoulder, or stormwater facilities may provide separation within 4 to 7 ft or greater

OPTIONAL DESIGN ELEMENTS
(4) On-street parking may be provided in the roadway, adjacent to or integrated with the physical separation.


[^0]:    *Must meet marked crosswalk spacing guidelines.

[^1]:    *Pedestrian access route requirements: The route shall provide a minimum 4 ft width; The surface shall be firm, stable and slip resistant; The running slope shall not exceed the general grade established for the adjacent street or highway; The cross slope shall be 2 percent maximum. Where such modifications are not possible or appropriate within the scope of the project, [exception report/request] must be filed.

