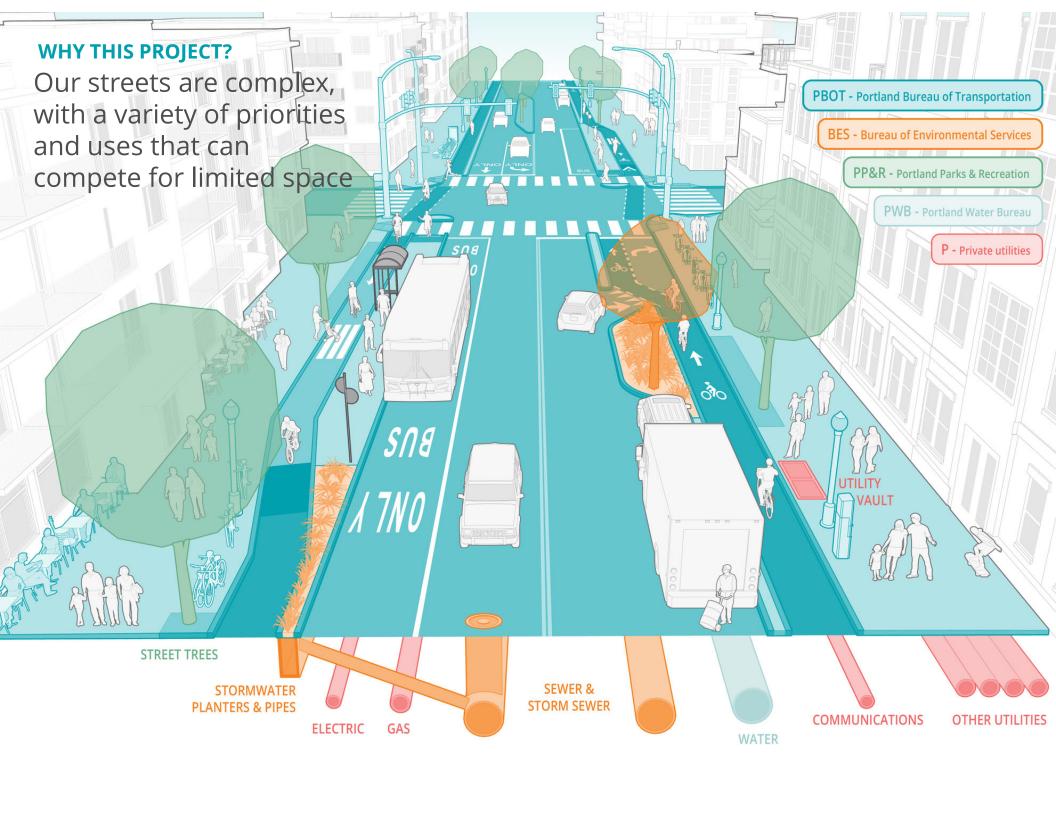
StreetsPDX



Urban Forestry Commission April 20, 2023





How we got here

Analyzed existing conditions in the right-of-way



Documented spatial needs within the zones of the right-of-way



Identified the top issues encountered in the right-of-way



Evaluated "street types" as a context-based decision-making framework



Existing Conditions in the Right-of-Way

Overall, Portland has relatively narrow streets and rights-of-way. However, conditions vary across the city. The Comprehensive Plan divides Portland into five Pattern Areas based on natural and built patterns. The Streets 2035 existing conditions analysis found the Pattern Areas to be a useful lens to identify trends and understand how streets differ across Portland.



Central City ~ 5% of Portland streets

Curb-to-curb 36 feet (typical) Sidewalks More likely to be in the range of existing sidewalk standards (10-12'; 15')

Tree canopy With limited green space, space for trees relies upon the right-of-way

Stormwater Combined Sewer Overflow

Other features Development density and the requirements related to underground wiring districts make this area the most

Western Neighborhoods

~ 20% of Portland streets

Curb-to-curb 22 and 24 feet (typical) Sidewalks Many streets were developed without sidewalks

Tree canopy Highest tree canopy coverage, much of it

on private property Stormwater MS4 (drains to streams)

Other features Roads are generally narrow due to topography rather than limited right-of-way

Eastern Neighborhoods

~ 20% of Portland streets

Curb-to-curb 66 and 76 feet (typical) Sidewalks Many non-local streets (e.g., collectors and above) have curb-tight sidewalks

Tree canopy Lower tree canopy coverage

Stormwater Underground Injection Control

Other features Low street connectivity makes major streets important for all modes due to a lack of alternate routes

Inner Neighborhoods

~ 50% of Portland streets

Curb-to-curb 36 feet (typical)

Sidewalks More likely to be in the range of existing

sidewalk standards (10-12'; 15') Tree canopy Moderate tree canopy

Stormwater Combined Sewer Overflow

Other features High level of street connectivity

Industrial & River ~ 5% of Portland streets

Curb-to-curb Varies

Sidewalks A mix of curb-tight and missing sidewalks

(with some exceptions)

Tree canopy Industrial areas have fewer trees, as trees typically do not do well adjacent to lanes

with heavy large-truck traffic

Stormwater MS4 (drains to streams)

Other features Design needs to consider how freight

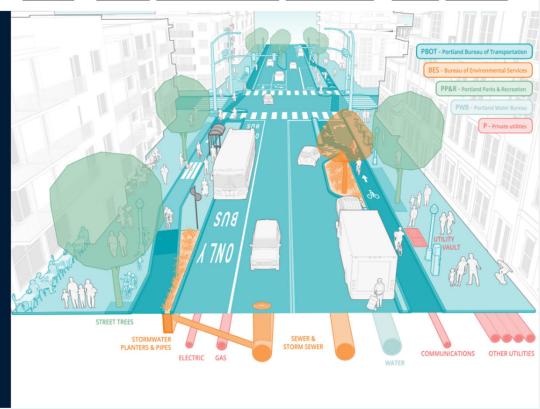
can safely move through and decrease conflicts with more vulnerable users and without damage to infrastructure

What we heard last time (UFC)

- Have 6 tree inspectors for large amount of development
- Misperception of root depth; concerns of having to remove a tree later
- Impacts of vaults on tree planting locations
- How to make holistic: it's not their infrastructure it's our infrastructure
- Trees are infrastructure that impact stormwater, urban heat island, safety
- Equity issues such as tree density, lighting and safety

Welcome to StreetsPDX

StreetsPDX is a design framework intended to support policy implementation and decision-making in the right-of-way consistent with the City's 2035 Comprehensive Plan. It brings together the various policies and corresponding design standards that influence space in the right-of-way as part of private development and with city led capital projects. Because individual sites and projects in constrained urban environments can vary in their challenges and opportunities, the framework also identifies the deviation processes that provide flexibility when it is not possible to meet all applicable standards.



This site is a tool for helping users navigate the framework. It has several informational sections to help users understand the StreetsPDX framework.



All streets in Portland have a role in fostering, absorbing, and sustaining the impacts of a growing city. Portland's Transportation System Plan (TSP) includes a "Street Design" classification which assigns each street a "type" based on a combination of the transportation function and the adjacent land use context. These "Street Types" are a foundational element of the StreetsPDX decision-making framework.



DEVELOPMENT IMPROVEMENTS

This tool allows users to visualize the different standards that may apply to their development project, with links to available deviation processes and a more detailed page of city standards, guidelines and requirements that impact space in right-of-way.



When a road is re-designed as part of a city project or road reconstruction, PBOT needs to determine the appropriate cross-section for the street. StreetsPDX developed a decision-making process that provides PBOT with an organized and rational process for considering a roadway's context, the trade-offs between different right-of-way uses, and guidance for what to do when there is not sufficient space to accommodate all policy-specified uses to their preferred dimensions.

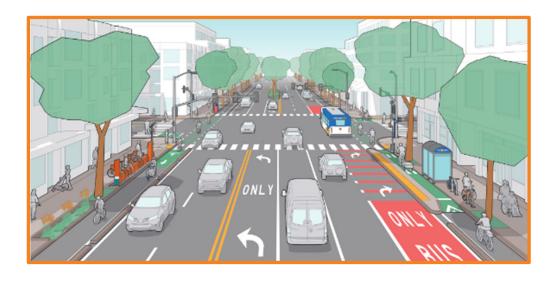
Read about street types Read about development improvements

Read about capital projects

STREET TYPES



STREET TYPES



CIVIC MAIN STREETS

Civic Main Streets are generally Portland's busiest, widest streets that pass through compact, pedestrian-oriented centers that anchor neighborhoods with retail and businesses, schools and libraries, housing options, employment centers, and gathering places.

Land Use Intensity Roadway Width Multimodal Mobility Demand

Loading/ Business Access











CIVIC CORRIDOR



NEIGHBORHOOD MAIN STREET



NEIGHBORHOOD CORRIDOR



COMMUNITY CORRIDOR



LOCAL

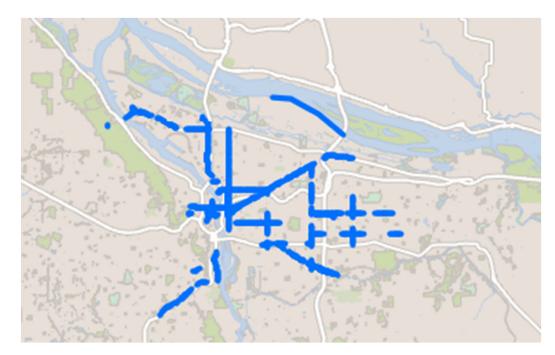


INDUSTRIAL

STREET TYPES

Learn details about the specific needs and requirements of **CIVIC MAIN STREETS:**

- Typical Street Classification
- Typical Travel-Way Width
- Travel Lanes
- Pedestrian Needs
- Greening Needs
- Bicycle Needs
- Transit Needs
- Freight Needs
- Curbside Access Needs
- Place Creation Needs
- Emergency Response Needs



An interactive map gets you to the information you need quickly

Example streets

SE MARTIN LUTHER KING JR BLVD

SE 122ND AVE

E BURNSIDE ST

SW CANYON RD

NE 122ND AVE

DEVELOPMENT IMPROVEMENTS IN THE RIGHT OF WAY



DEVELOPMENT IMPROVEMENTS RESOURCES: PAGE

Organized and created a point of entry to access the information you need

Development-Related Public Improvements in the Right-of-Way

This page identifies policies and requirements that may apply to a development project and influence the allocation of space in the right-of-way. It also identifies the different paths for seeking approval to deviate from a standard requirement.

You should use this page in combination with our guide to city standards, guidelines, and requirements.

But Use the image or scroll down to navigate to the standards that you are interested in learning more about. Each section has a link to read the specific section of our guide.



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Frontage Improvements

Requirements and standards

Sidewalk standards are defined in the Pedestrian Design Guide and are applied based on the Street Design Classification of the street. Private development projects that meet the triggers in 17.88.020 are required to bring their frontage up to current standards.

Read more about sidewalk requirements and standards &

DEVELOPMENT IMPROVEMENTS RESOURCES: ROW POLICIES

Highlights requirements and deviation processes



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Read more about sidewalk requirements and standards @

How to deviate from standard improvements

PBOT's Public Works Alternative (PWA) review process allows an applicant to submit an alternative to the standard sidewalk cross sections required to meet current standards, codes, and policies. Alternatives to construct or maintain a less than standard width sidewalk for the entire frontage or at a particular point are eligible for this process.

Criteria for accessing the Public Works Alternative process

reduction in frontage improvements to meet other policies requirements (e.g., to preserve a tree) or respond to site constraints (e.g., topography and/or complexity in conveying stormwater) are listed in TRN 1.27.

red

Sidewalks and Pedestrian Crossings

Sidewalk standards are defined in the Pedestrian Design Guide and are applied based on the Street Design Classification of the street. Private development projects that meet the triggers in 17.88.020 are required bring their frontage up to current standards.

- Pedestrian Design Guide
 - Sidewalk standards by zone of the sidewalk
 - Minimum dimensions for constrained situations
 - When furnishing zones are required to be landscaped vs. hardscaped
 - Alternate walkways and criteria for use in capital projects
- TRN 1.22 Infill Development on Streets with an Existing Sidewalk Corridor
 - Establishes the situations in which the City will accept the existing sidewalk configuration as the standard for the block length.
- TRN 1.29 Sidewalk Corridor Widths within Historic Resource Overlay Zones
 - Identifies Main Streets in historic districts where the sidewalk corridor may be less than the 15' standard to honor the historic building line.

DEVELOPMENT IMPROVEMENTS: SEE OTHER RESOURCES

These pages do not replace other technical resources.

They help put information people need in a central place.

Neither page is an exhaustive list and additional information may be available.

Refer to the city's Public Works Permitting page of for information related to public works projects, including permit, fee and technical resources of . For more information on the development review process, refer to Development Review and Permit Process (BDS) of and Transportation Development Review and Early Assistance.

CITY PROJECTS



CITY PROJECTS RESOURCES

The framework for City Projects is designed to help staff and the public find relevant information quickly and support the evaluation of tradeoffs



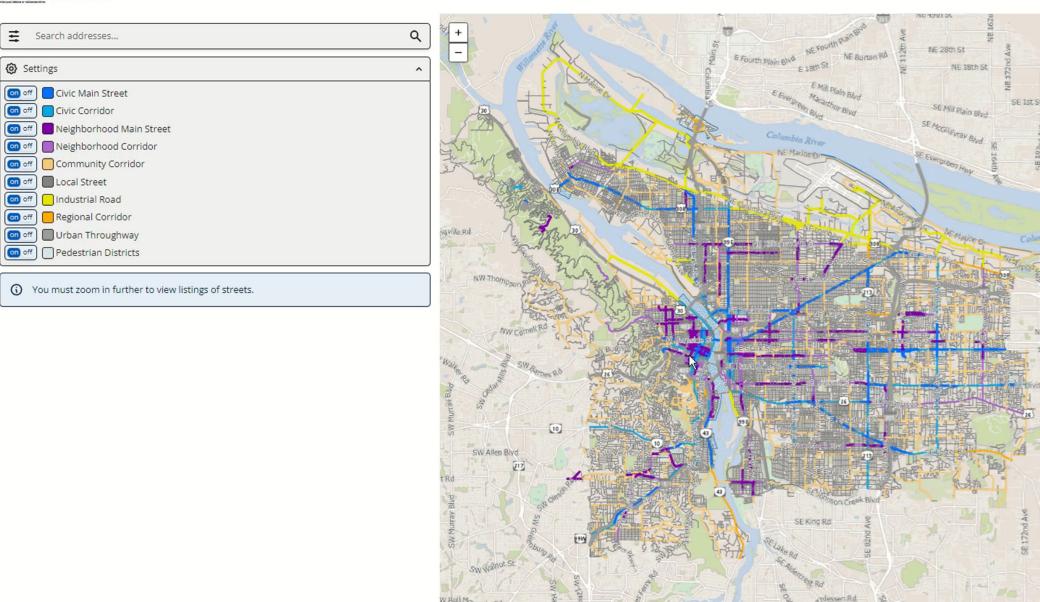
- Select a street
- Resulting classifications (policy scan)

- View cross sections
- Identify potential tradeoffs

Evaluate tradeoffs

CITY PROJECTS RESOURCES: MAP

PBOT StreetsPDX

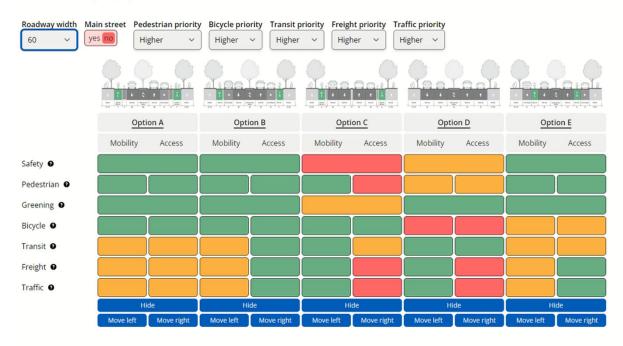


CITY PROJECTS RESOURCES: CROSS SECTIONS

Street types 🔻 City Projects Development Improvements Right-of-way Policies 🗷 Street Map Cross-Sections

60 Foot Cross Sections

The StreetsPDX Cross-Section tool visualizes options for use of the right-of-way $\tilde{1}$ focused on the space between the curbs. It allows you to set various priorities (which populate automatically when you reach this page from the $\underline{\text{Street Map}}$) and evaluate potential cross sections to meet capital projects goals. This tool makes clear that there are always tradeoffs between potential cross sections. Priority designations, project goals, and analyses of tradeoffs inform which section(s) are advanced. To get started, review the $\underline{\text{City Projects page}}$ which describes how to use this tool for a given project.



Spatial tradeoffs		Policy Priorities	
	Minimal tradeoff Tradeoff: Analysis required		On network, but not highest priority Not on network

CITY PROJECTS RESOURCES: HANDBOOK

A Right-of-way Tradeoff Handbook supports consistent analyses to inform whether a tradeoff is acceptable, and identifies options to mitigate impacts to a use not accommodated or provided at less than preferred dimensions

TRANSIT

A street's Transit designation identifies its role in the city's transit network. Transit priority treatments from the ETC Toolbox such as transit stop curb extensions or islands to allow transit to stop in lane, transit signal priority, queue bypasses, and Business Access and Transit lanes are aim make transit a rapid and reliable choice for daily transportation. A variety of data are available to identify the extent and location of delay for transit vehicles.



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ANALYSIS OF TRADEOFFS



MOBILITY

- · Transit delay / passenger delay / run-time variability
- Frequency / headway / # of transit lines (per hour or all day)
- · Application of Enhanced Transit Corridors toolkit
- · Bus/bike lane interaction
- Considerations for shared transit and freight priority lanes

ACCESS

- · Transit access to the curb at stops
- Sidewalk meets ADA standards and supports ramp deployment
- Bus/bike/pedestrian interaction at transit stops
- Consider additional space for people to wait without blocking sidewalk, stop amenities, or when bicycle facilities ramp to sidewalk level at stops

POTENTIAL REASONS FOR ACCEPTING TRADEOFFS



MOBILITY

- Transit priority lanes infeasible due to existing infrastructure in curb zone
- Traffic analysis indicates repurposing lanes for transit priority would lead to significant diversion or secondary safety issues
- Impacts to transit delay due to lane reduction can be mitigated (see next column) or benefits of lane reduction outweigh impact to transit

ACCESS

Topography or other constraints to providing sidewalks at stops

OPTIONS TO MITIGATE TRADEOFFS



MODILITY

- Transit signal priority, turn lanes at intersections, or transit stops in lane when transit only lanes or queue bypasses are infeasible due to space constraints
- Pro-time/peak hour transit priority lanes with on-street parking allowed off-peak
- Shared bus/bike facilities when considerations can be met

ACCESS

 Provide accessible transit stops through parking removal at stops, bus length curb extensions or floating transit stops



CITY PROJECTS RESOURCES: CROSS SECTIONS/HANDBOOK

The matrix identifies potential tradeoffs (yellow & red); analysis of whether a tradeoff is acceptable is guided by the Right-of-Way Tradeoff Handbook



TRANSIT

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Frequency / headway / # of transit lines (per hour or all day) · Considerations for shared transit and freight priority lanes · Bus/bike/pedestrian interaction at transit stops Consider additional space for people to wait without blocking sid



through parking removal at stops, ous length curb extensions or floating

'Tradeoff Analyses & Mitigations' is guided by the Right-of-Way Tradeoff **Analysis Handbook**

Discussion and Next Steps

- Review web page
- Questions on the content and tools?
- StreetsPDX website estimated to go live June 2023
- Will share link when ready
- Streets2035@portlandoregon.gov