

Urban Design Best Practices and Innovations

Update

October 8, 2019

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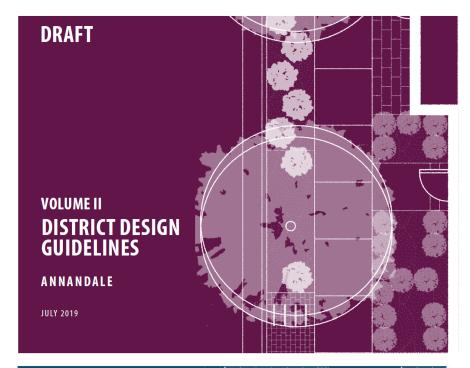


VOLUME I

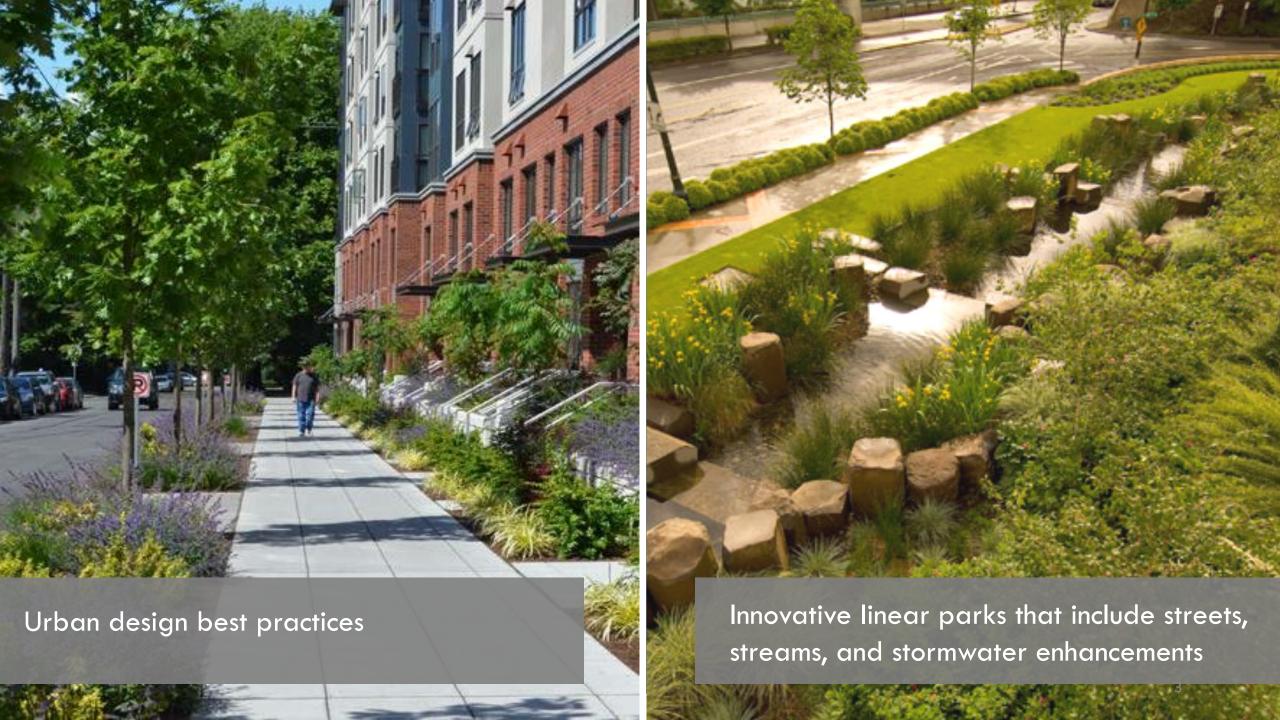
URBAN DESIGN GUIDELINES

FOR FAIRFAX COUNTY COMMERCIAL REVITALIZATION DISTRICTS AND AREAS

SEPTEMBER 2018



















Documented existing conditions in the CRDs/CRAs

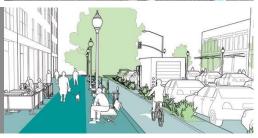
- Evaluated quality/maintenance needs of existing infrastructure
- Analyzed property size and shape



Built partnerships with county agencies and created technical teams (internal and external) to provide expertise



Researched national best practices



Incorporating new guidance into updates to the Comprehensive Plan, Zoning Ordinance, Public Facilities Manual

PLAN

PFM

Z.O.

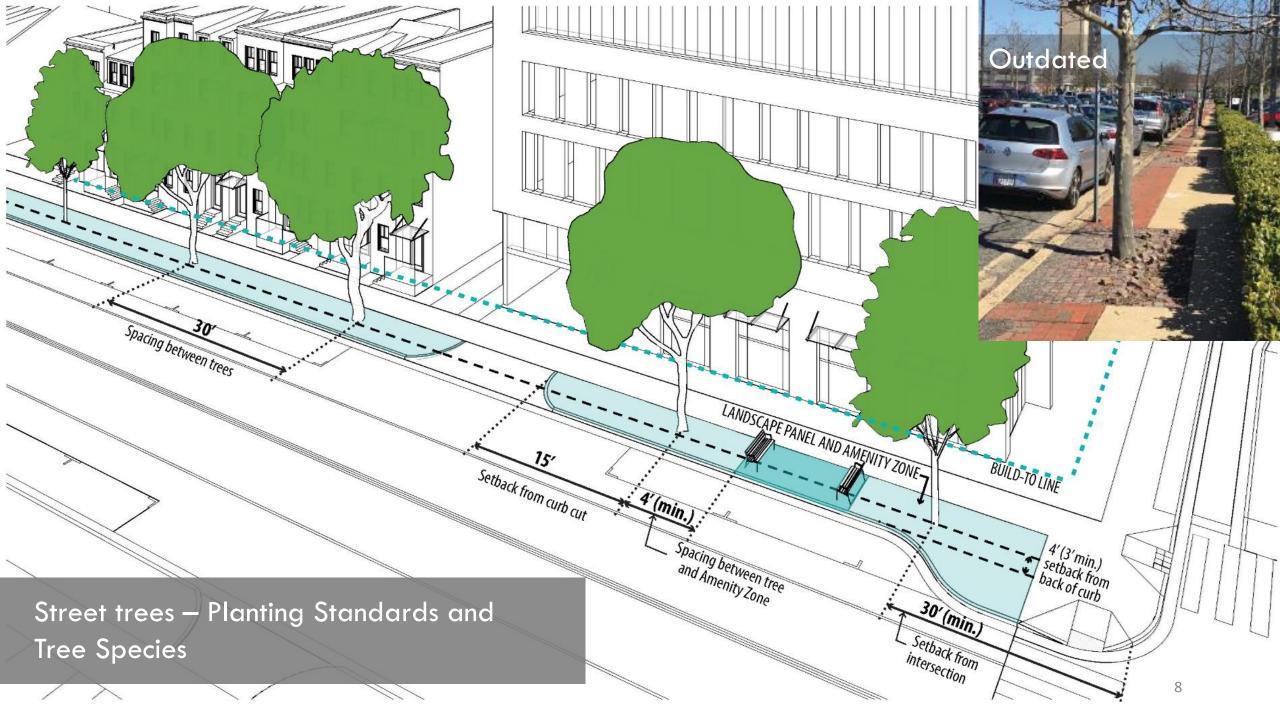
Now, beginning to apply it countywide to a variety of activity centers (ex. Merrifield Suburban Center Study/WFC)





Streetscape and Urban Design Best Practices







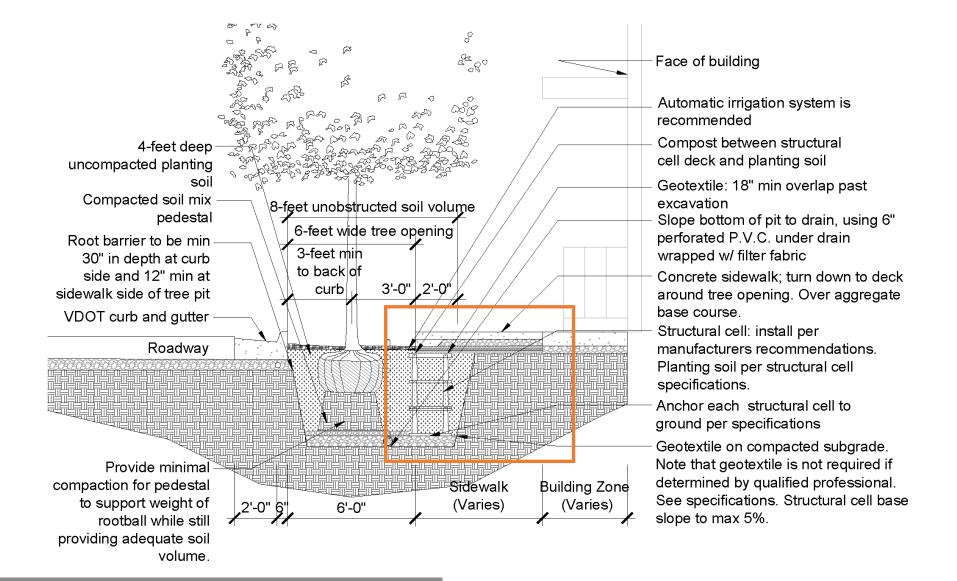








Options for how developers can provide street trees when space is limited



Street trees – Detail developed for the Design Guidelines based on Alternative Strategy #2





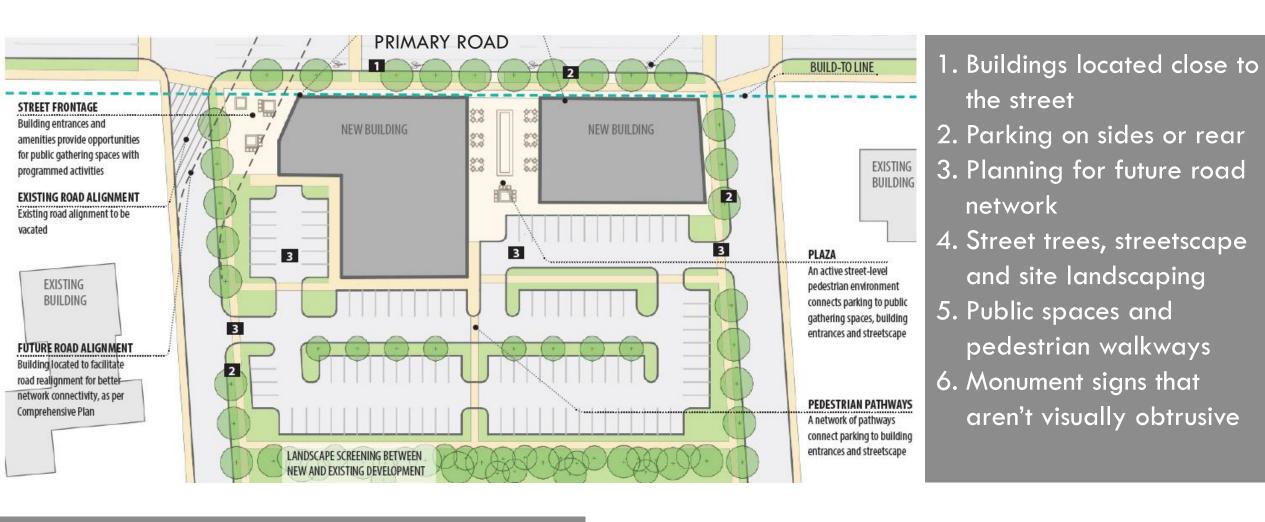


Green Stormwater Infrastructure
Toolkit

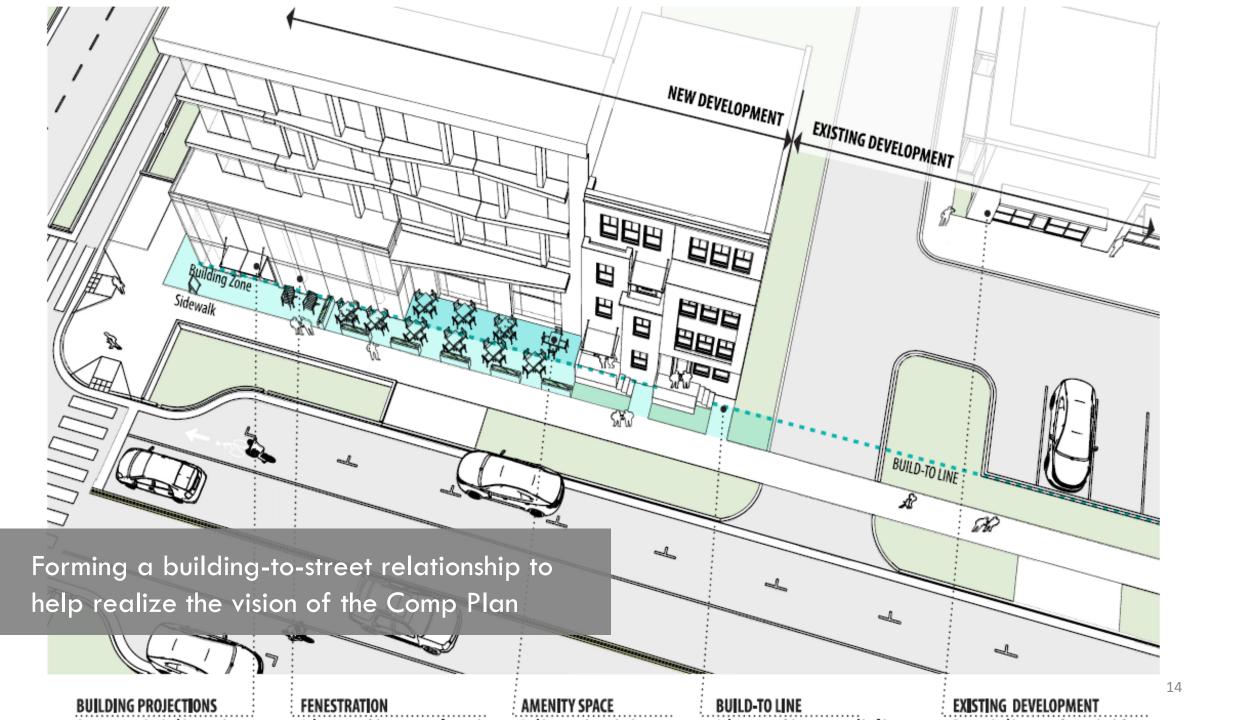








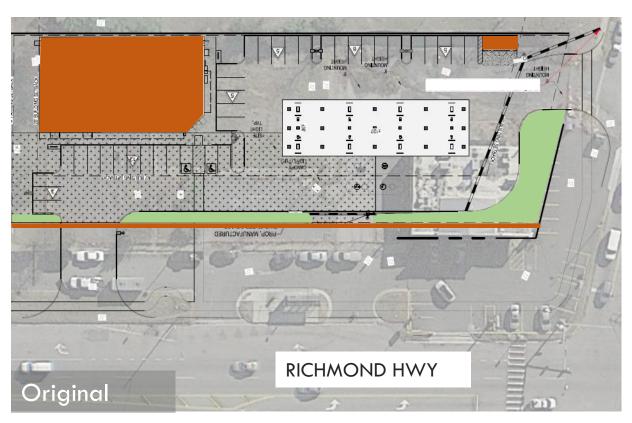
Small-scale and Incremental Development

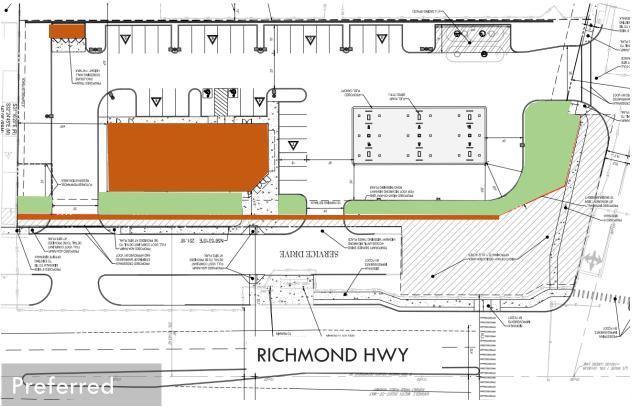






Small-scale and Incremental Development





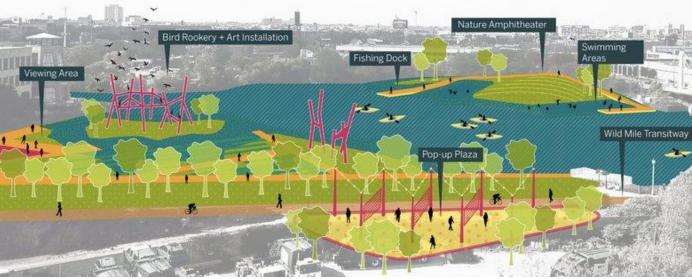
Small-scale and Incremental Development



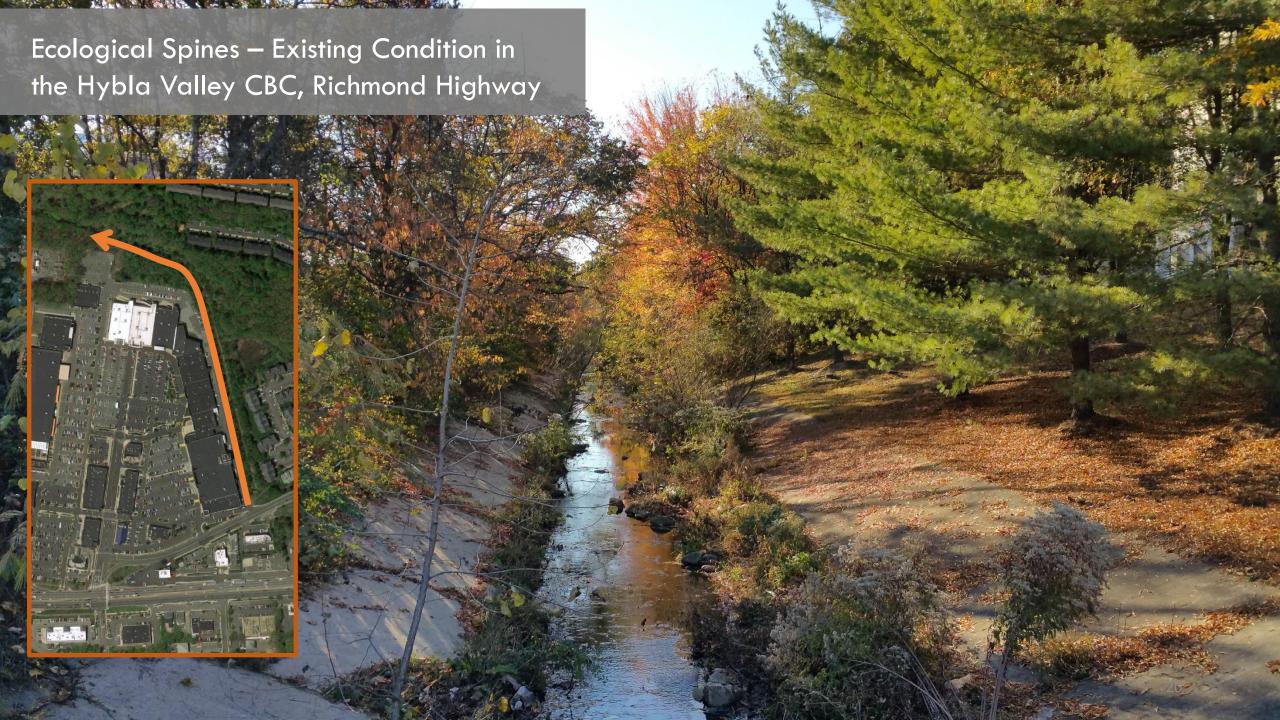
Wild Mile Chicago, IL











Ecological Spines are linear parks and enhanced riparian corridors where there are surface or buried streams. Formed by daylighting covered streams or by enhancing existing streams and riparian buffer areas, Ecological Spines serve a range of environmental, recreational, and educational purposes while connecting people to nature. Some Ecological Spines also include local streets and stormwater management.

Function as resilient and <u>ecologically</u> sound riparian corridors

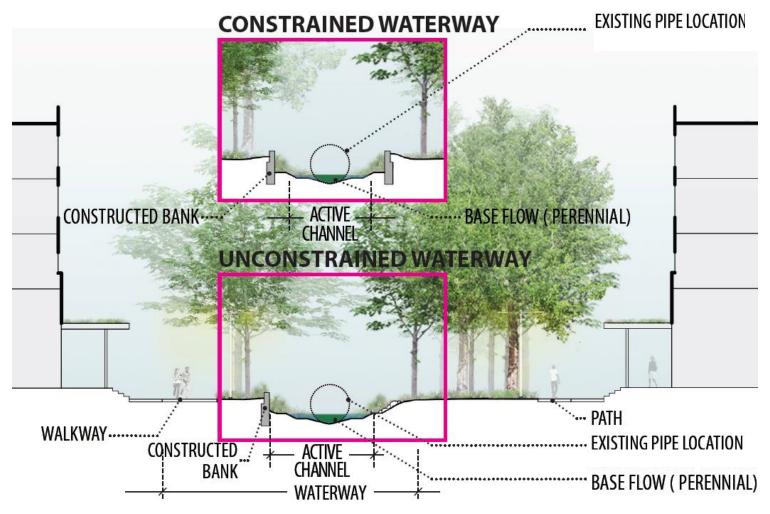
Provide mobility options for pedestrians, cyclists, and in certain instances, low-speed vehicles

Serve as <u>open space amenities</u> that enhance community character and identity Foster strong <u>connections between</u>

<u>people and nature</u> by providing

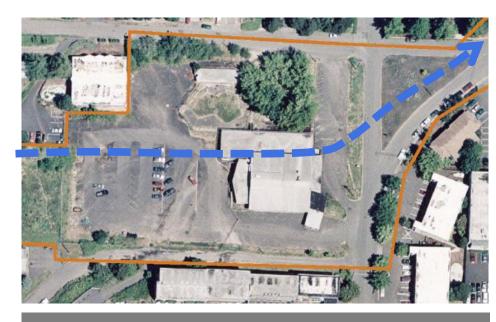
immerse natural experiences

Ecological Spines – Constrained Scenario





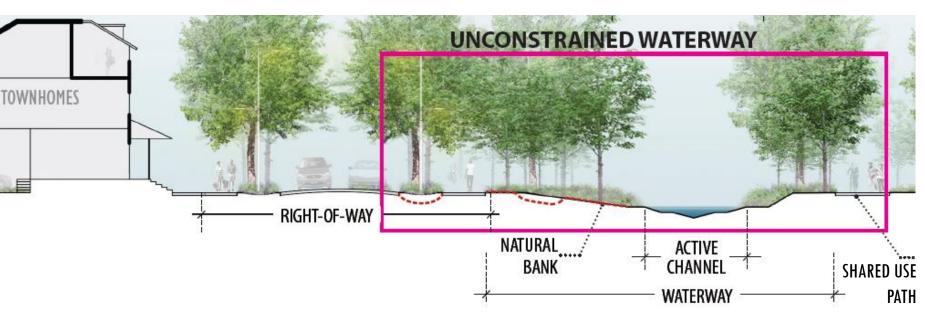
Ecological Spines – Case Study Example Headwaters at Tryon Creek, Portland, OR



Pre-development Condition

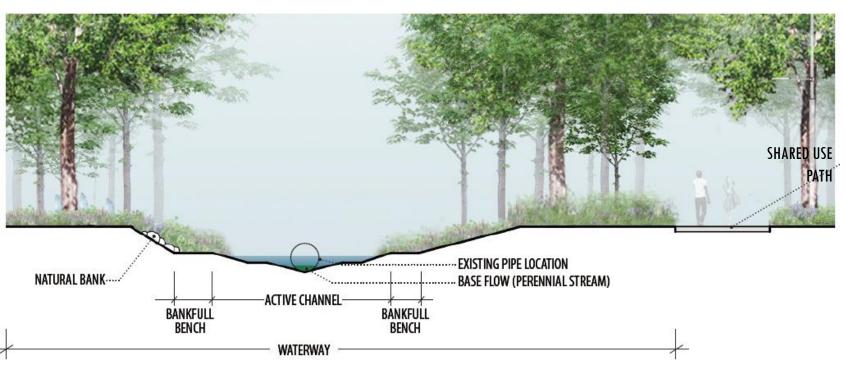


Ecological Spines – Unconstrained Scenario





Ecological Spines – Naturalized Scenario





Ecological Spines – Programming Examples









Ecological Spines - Implementation Challenges

- Creation of an ecological spine is one way for developments to address stormwater guidance in the Comprehensive Plan. It can also help developers address open space and urban parks framework planning guidance
- Maintenance: responsible party, also ensuring durable and floodable designs
- RPA policy
- Research on case studies, Fairfax policies, and floodable designs, and strategies to encourage their implementation continues (ie. getting the barriers out of the way) – we don't have all the answers yet
- County may need to consider partnerships between developers and the county (to address financial or technical challenges), particularly in instances where there are improvements needed to the stream corridor beyond the project

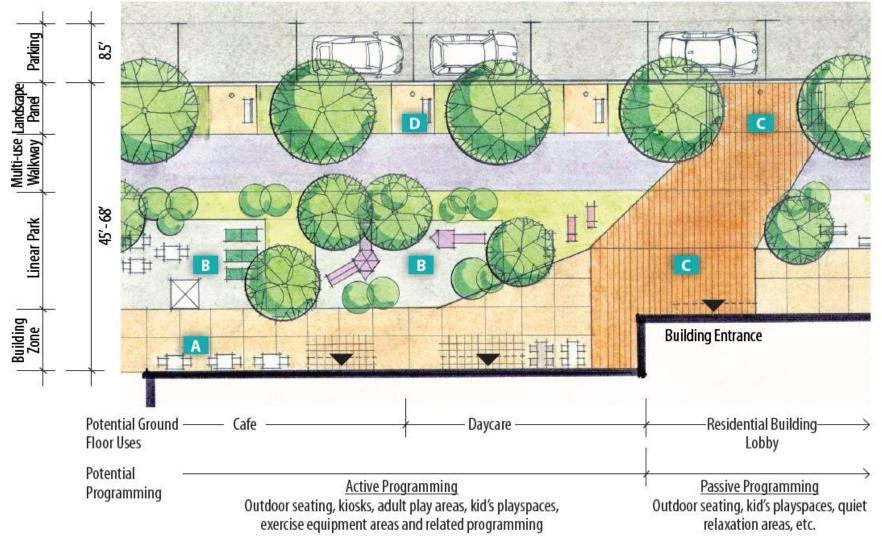
Livability Spines are roadways that include linear green spaces and plazas along their sides and across multiple developments and/or blocks. Livability Spines enhance multimodal mobility by integrating pedestrian and bicycle facilities. As linear parks with outdoor activities and active uses adjacent to the ground floors of buildings, Livability Spines can function as "main streets" and community gathering places as an alternative to very busy thoroughfares.

Create by <u>aggregating park space</u> <u>contributions</u> by individual properties

Accommodate a <u>spectrum of active</u> and passive uses

Foster an <u>active street life</u>

May serve as an alternate 'Main Street' to a busy thoroughfare





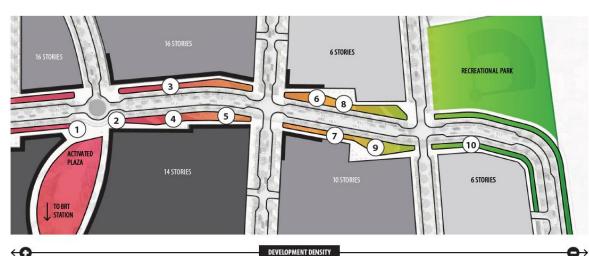




HIGH RISE BUILDING LOW RISE BUILDING

ACTIVE PROGRAMMING

PASSIVE PROGRAMMING DINATED WITH THE SPECTRUM OF PAGE.



More active programming is located near retail/ commercial, higher-density uses, and transit

More passive programming is located near lower density development and single-family residential neighborhoods

ACTIVE PROGRAMMING









MARKETS, FOOD TRUCKS, FESTIVALS

Permanent hardscape or structures that accommodate recurring markets or festivals Image Credit: Stephen Elliot

Water features and fixed or movable games that invite interaction, play, and gathering Image Credit: Elisa Murray

ACTIVE PLAY safe play of all age groups Image Credit: Gehl

Permanent climbing walls or rope courses for Swings, seesaws or movable objects whose movements activate sounds and lights. May accommodate small-scale performances Image Credit: Olivier Blouin, Arlington Now

INFORMAL PLAY Permanent or temporary large-scale board games that do not require specialized play

Image Credit: Gehl

PASSIVE PROGRAMMING











MOVEABLE SEATING AREAS

Hardscape areas with movable chairs, tables and plantings to allow for informal lingering Image Credit: Copley Wolff

OUTDOOR FITNESS Permanently placed fitness equipment stations that allow for self-guided fitness

LAWNS FOR OCCASIONAL EVENTS Flexible lawns that can accommodate occasional special events, but primarily host

Soft and hardscaped areas that invite respite solitary activities or small, organic gatherings Image Credit: Ty Cole Studio, Scape

GARDENS, TREE ALLÉES, NATURALISTIC PLANTINGS WITH SEATING Heavily-planted areas with seating. Plantings might include dense tree canopies or special

Livability Spines – Programming Scheme

Emerging Issues and On-going Work

- Managing needs/competing interests for the curb space
 - balancing comfort/needs of all users
 - minimizing impacts on property owners for additional ROW/land that could inhibit redevelopment
- Evolving mobility options (scooter, curb management)
- Exploring alternative shared-use path/bike facilities materials (other than asphalt)
 that are in keeping with the character of the activity centers
- Keeping up with rapidly changing industry practices for Green Stormwater Infrastructure design
- Considering impacts of One Fairfax policies in decision-making for streetscapes and public spaces
- On-going documentation and research work on Ecological Spines



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