

Green to Cedar Rivers Trail King County

North Segment Community Meeting April 27, 2017 **Shadow Lake Elementary School**





Your Big Backyard





2014-2019 Parks, Trails and Open Space Levy

- Take care of existing parks and trails, ensuring they remain clean, safe and open
- Grow and connect open space and natural lands, protecting habitat and providing recreation
- Improve regional trails and nonmotorized mobility, ensuring connections are completed and trails maintained
- Make parks and recreation
 opportunities more accessible for all
 residents to enjoy



King County's Regional Trails System

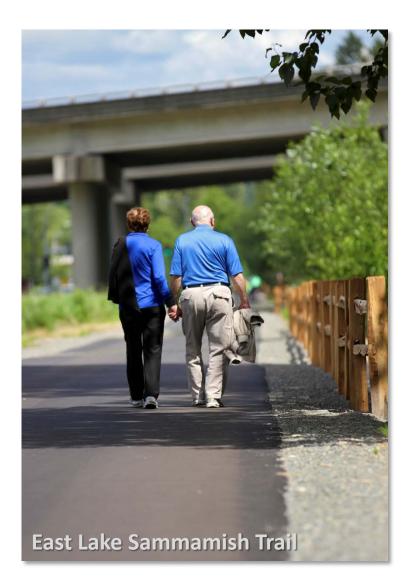
Mission

Expand and steward an accessible, interconnected regional trails network.

Vision

Regional trails for all ages and abilities that connect communities, inspire healthy living, and support a sustainable future.

Expand access and usability for all ages and abilities





Promote active recreation for health and well-being







Connect communities



Wilmott Gateway is a community gathering space along Sammamish River Trail



Volunteers painted colorful mural along
Burke-Gilman Trail



Community plaza along Cross Kirkland Corridor at Google's campus



Wayfinding signs point people to locations and trail connections



Support a sustainable future



Commuter heading to work along Burke-Gilman Trail





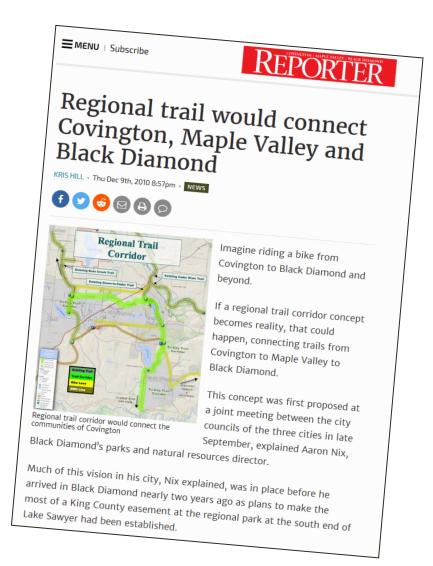












"...the council members were all very enthusiastic about the concept and provided direction for all three cities to move forward and try to make it reality."

- Covington | Maple Valley | Black Diamond Reporter, Dec 9, 2010



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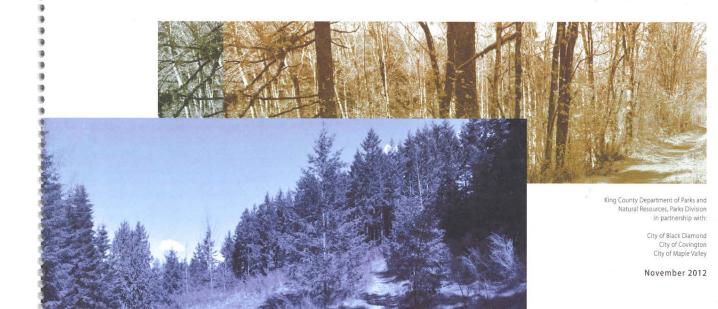






Your Big Backyard

Green to Cedar Rivers Trail

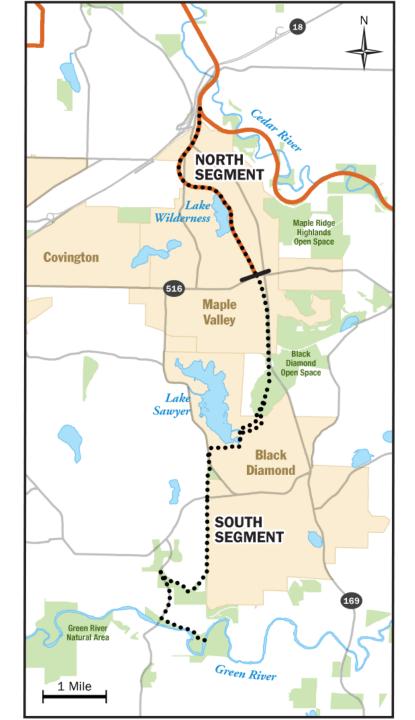


GREEN TO CEDAR RIVERS TRAIL

(FEASIBILITY STUDY

2012





Green to Cedar Rivers Trail







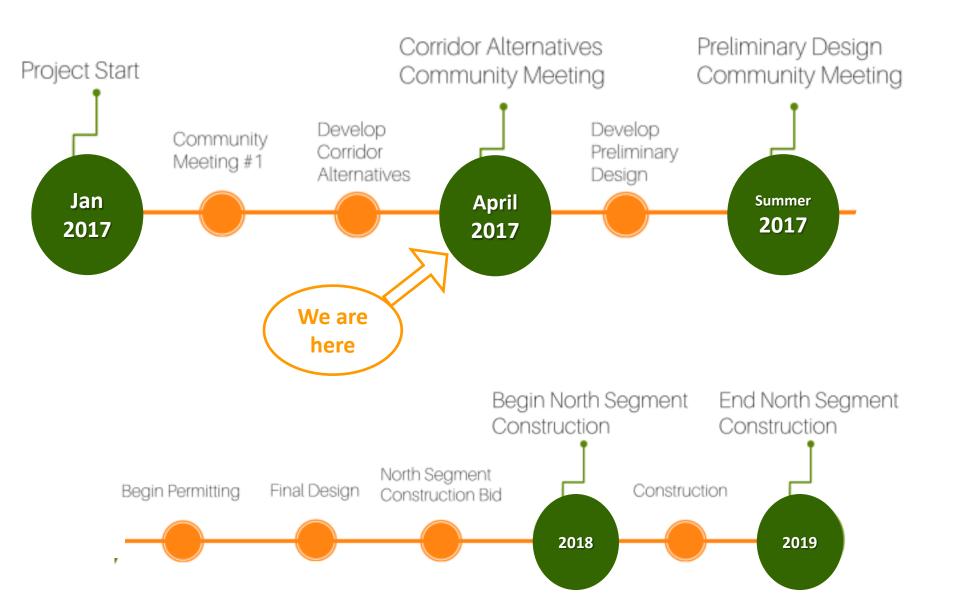


Your Big Backyard

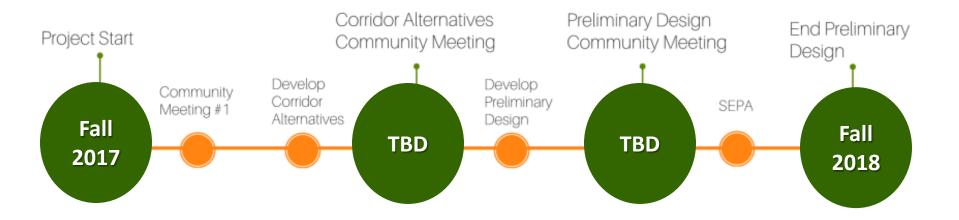
G2C Rivers Trail - North Segment



North Segment Project Timeline



South Segment Project Timeline









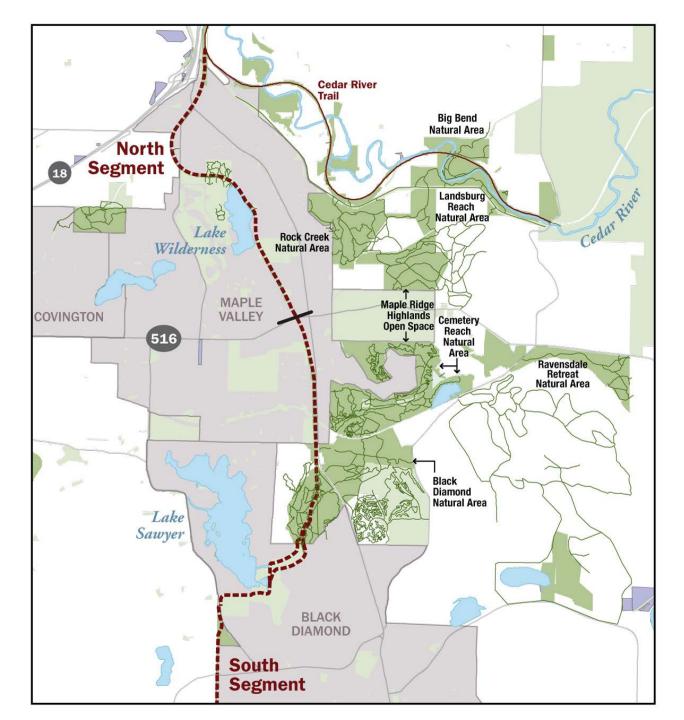
Why a 12-foot-wide paved trail?

- Builds to nationallyrecognized standards
- Increases access for all ages and abilities
- Improves safety
- Anticipates future growth



G2C Rivers Trail – North Segment Community Meeting at Lake Wilderness Lodge, Jan 11, 2017





Trails in Maple Valley Area



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Map created by: KCIT eGov Unit Data: King County Datasets File: 1704_8405w_G2C_backcountry_trails.ai



North Segment – Key Questions

What is the cost of the project and how is it funded?

Estimated cost is \$10 million and funded through the voter-approved 2014-2019 Parks Levy

How is the decision regarding development of the trail made?

G2C trail has been part of long term plan for trails since 1992. It was approved for development as part of 2014-2019 Parks Levy

How long will trail be closed during construction?

Approximately 18 months





Equestrians on the Centennial Trail in Snohomish County





G2C Rivers Trail Stakeholder Meeting, March 28, 2017





G2C Rivers Trail Stakeholder Trail Walk, April 10





Task

Option 1

- Standard trail design identified in feasibility study
- 12' paved trail; 2' shoulders; separated path



Task

Option 1

- Standard trail design identified in feasibility study
- 12' paved trail; 2' shoulders; separated path

Option 2

- Meets criteria for Regional Trail Design
- Responds to <u>public input</u>
- Responds to <u>site conditions</u>





























Infrastructure

Utilities





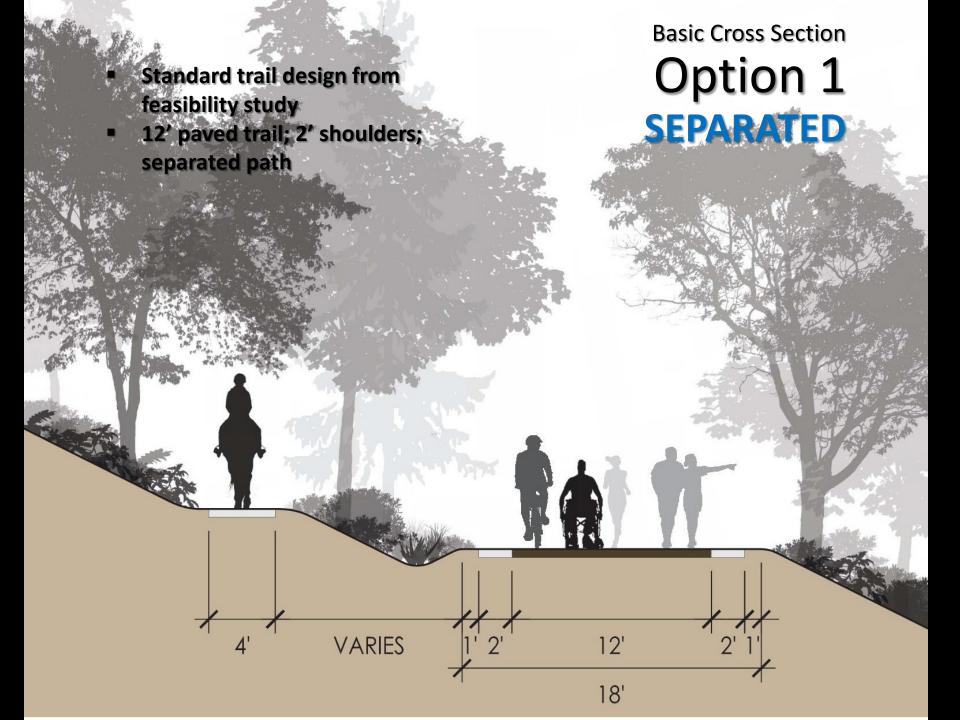














Option 1 - Separated 4 VARIES 1 2 12 2 1 18



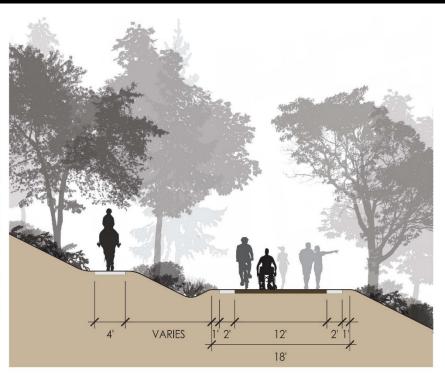
Responding to site conditions

- Topography
- Vegetation
- Infrastructure



Unconstrained & Constrained

Option 1





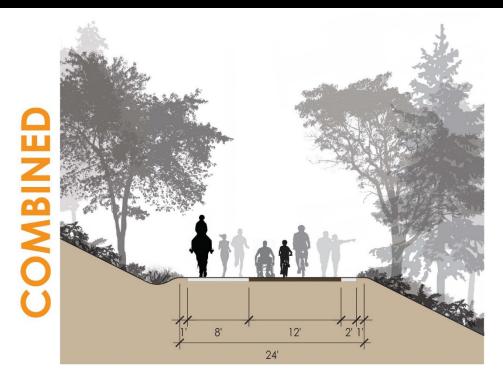
UNCONSTRAINED

CONSTRAINED

SEPARATED

Unconstrained & Constrained

Option 2

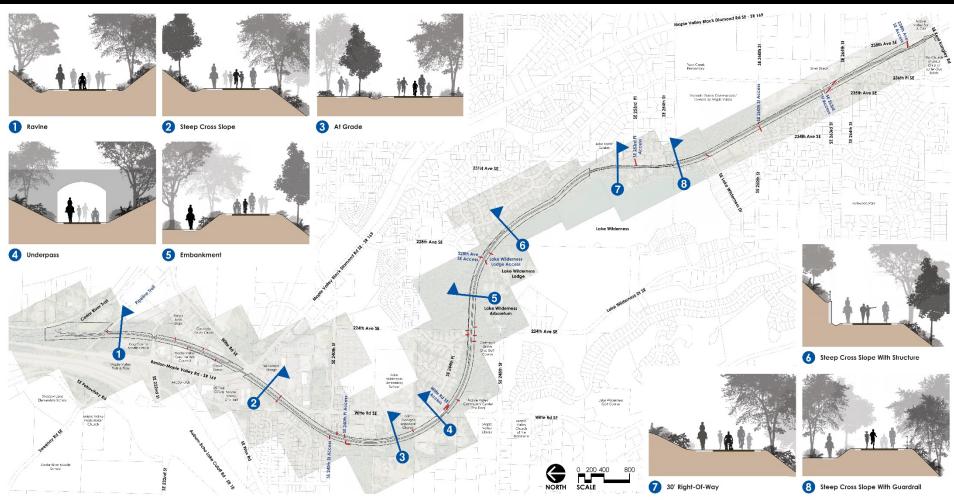




UNCONSTRAINED

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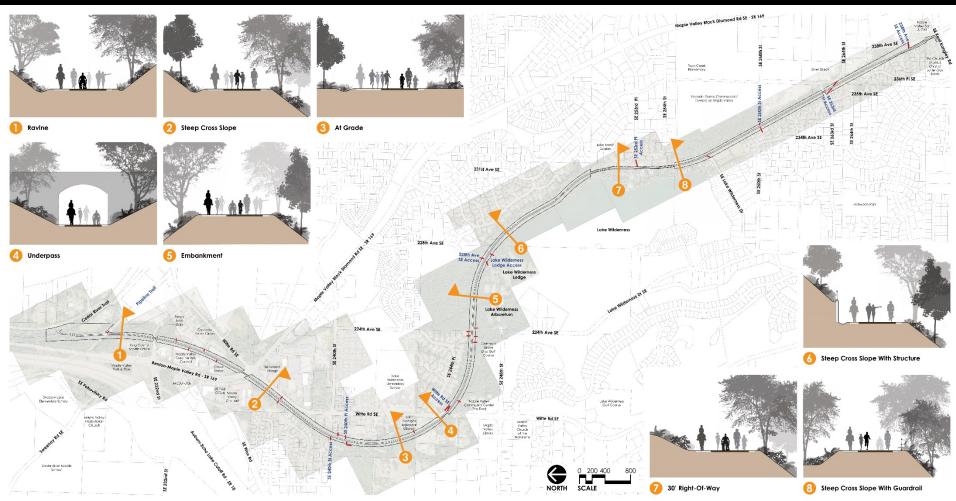
Option 1 **SEPARATED**



SEPARATED TRAIL OPTION
GREEN TO CEDAR RIVERS TRAIL NORTH

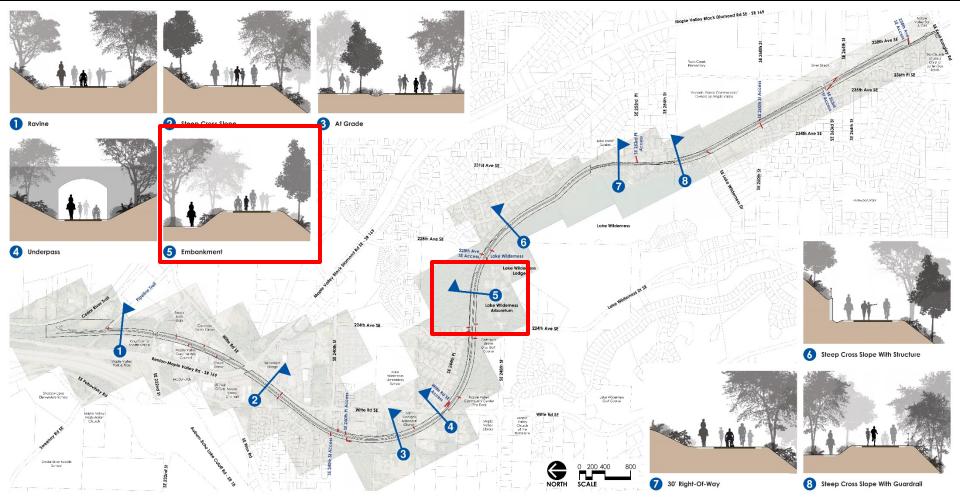


Option 2 **COMBINED**



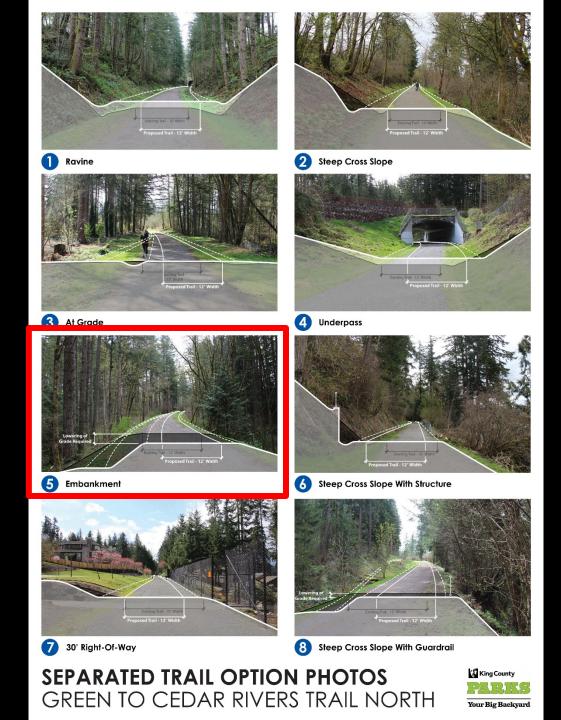
COMBINED TRAIL OPTION
GREEN TO CEDAR RIVERS TRAIL NORTH





SEPARATED TRAIL OPTION
GREEN TO CEDAR RIVERS TRAIL NORTH







Narrower footprint, with impact separated

Less tree removal Less volume and area of grading

- Variability in proximity to main trail

Less tree removal
Less volume and area of g

• Variability in proximity to ma
• Conflict between users
Depends on users; separate trail crosses main trail
• Storm drainage and utilities Depends on users; separated

- Potentially less impervious
- Two corridors to maintain increases level of maintenance



• Wider footprint, combined area of impact

More tree removal More volume and area of grading

- Variability in width
- Conflict between users

Depends on users; soft surface trail is consistently on east side

- Storm drainage and utilities Potentially more impervious
- One corridor to maintain reduces level of maintenance



TRAIL OPTION COMPARISONS GREEN TO CEDAR RIVERS TRAIL NORTH















Rockery

- · Cut or fill wall, may be taller in cut situations
- More natural aesthetic
- · Settlement sensitive
- Not designed for seismic stability; therefore, not recommended where failure would be considered a significant safety hazard
- Typical Height Up to 12'-0"
- Unit Cost \$30/\$F

Gravity Block

- Primarily used for fill walls, may be used for cut walls
- Stacked, often staggered, blocks that resist soil pressure with self-weight
- Blocks can be patterned or colored to create higher aesthetic appeal
- · Allows for intermittent plants and shrubs with crib wall system
- · Settlement sensitive
- Economical for wall heights of about 6'-0" to 12'-0"
- · Unit Cost \$40/SF

Mechanically Stabilized Earth (MSE)

- Primarily used for fill walls. More space required for cut walls
- Segmental concrete blocks or panels supported by alternating layers of backfill soil and reinforcing geotextile material
- Patterned or colored blocks can enhance aesthetic appeal
- · More tolerant of settlement
- Typical Height Up to 20'-0"
- Unit Cost \$40/SF

Gabion

- · Cut or fill wall
- Wire baskets or cages filled with high-quality angular rock
- · Relatively narrow base width in respect to wall height
- Natural aesthetic, variable with type of rock infill
- Can tolerate moderate settlements
- Typical Height Up to 15'-0"
- Unit Cost \$50/\$F

Cast-in-Place (CIP) Cantilever

- · Cut or fill wall, cut wall requires excavation for footing
- · Cut walls typically require less excavation than MSE of similar height
- Versatile wall facade. Textures and patterns can be applied to enhance aesthetic appeal
- · Settlement sensitive
- Typical Height 4'-0" to 20'-0"
- Unit Cost \$75/SF

Soldier Pile

- Typically used for cut walls, but can also be used for fill walls when space constraints limit the use of other wall types
- Steel piles in concrete shafts, typically 6 to 10 feet apart, with timber lagging or concrete facade
- Minimal space requirements and allows trees to remain in place
- Facade may be pattern or design to be more aesthetically pleasing
- Typical Height Up to 15'-0", with tiebacks for greater heights.
- · Unit Cost \$120/SF exposed height

WALL OPTIONS GREEN TO CEDAR RIVERS TRAIL NORTH



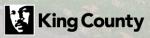
Structural solutions





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