



Working to Restore, Educate, and Advocate for Gills Creek Watershed www. gillscreekwatershed.org

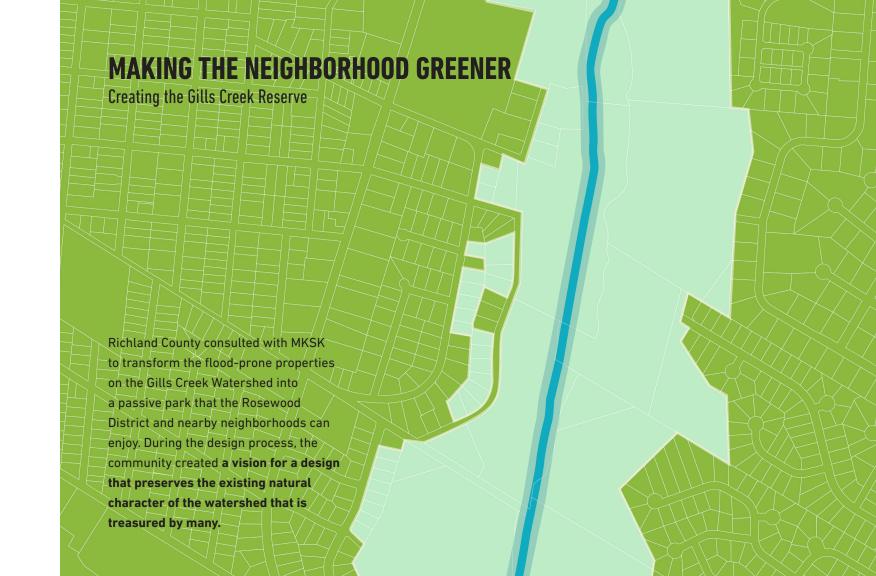


Funded in part by Central Carolina Community Foundation's Connected Communities grant www.yourfoundation.org/

MKSK

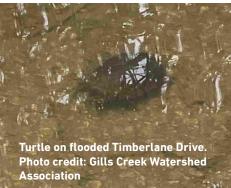
We build on local strengths to create stronger communities and healthier environments www.mkskstudios.com

July 2022



Flooding on Glenhaven Drive in 2015





History | A Dynamic Stream and Watershed

The Gills Creek Watershed flows into the Congaree River through multiple jurisdictions, including the City of Columbia in Richland County. The watershed has over 115 miles of streams from all over the Columbia region, comprising a watershed that covers more than 47.000 acres of land. Within those acres, most of the land is developed with 51% of it being urban, 13.4% agricultural, and only 35.6% being a mix of forested, swamp, water, and marsh. The impacts of urbanization and development have caused negative effects on water quality including excessive stormwater runoff and sedimentation, obstructing access to the stream itself. With growing pressures to develop near Gills Creek, it becomes increasingly more important to preserve its natural beauty and enhance access to the stream.

The Flood

On October 4, 2015, a large storm caused heavy rain that set a record for the greatest rainfall in the history of Columbia: in the Gills Creek area a total of 21.49 inches of rain was recorded. This unprecedented amount of rainfall caused major flooding in surrounding areas of the creek, like Timberlane and Glenhaven Drive, causing damage to existing homes and more stream bank erosion and sediment build-up. In response to the historic flooding, the Gills Creek Watershed Association has helped to increase awareness and educate residents about improving the resilience of the creek system and reducing development pressure in the watershed.

The 2015 flood created an urgency for the City of Columbia and Richland County to acquire properties through the FEMA Hazard Mitigation Grant Program to decrease development in the floodplain.

October 2015 Historic Flooding Timberlane Dr After the flood, the study areas were acquired by Richland County and the Gills Creek Watershed Association spearheaded the effort to preserve and naturalize the Gills Creek corridor. This process was driven by a desire to provide an amenity for residents and showcase opportunities to re-naturalize Waterbody the edges of the stream and remove 2015 Flood existing flood-damaged structures. Study Areas

Sources: https://www.weather.gov/cae/HistoricFloodingOct2015.html www.qillscreekwatershed.org

Process | Partnering with the Local Community

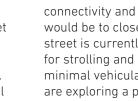
To achieve these goals the Gills Creek Watershed Association and the City of Columbia and Richland County are educating the community about the implications of development and urbanization in the watershed on the water quality and overall health of

the ecosystem of Gills Creek. These efforts were reinforced by Richland County's recent amendments to the Land Development Code that updated the zoning on the properties from Residential-Medium Density to Open Space to support the planned

natural restoration of the site. Gills Creek Watershed Association also partnered with MKSK to refine the vision for a naturalized stream corridor and community amenity. To experience the beauty of the site, MKSK was led by the project team



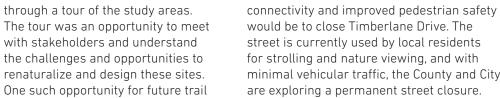






After the site tour in October, the design process included two community engagement sessions and an Advisory Committee meeting that informed the final design development set.

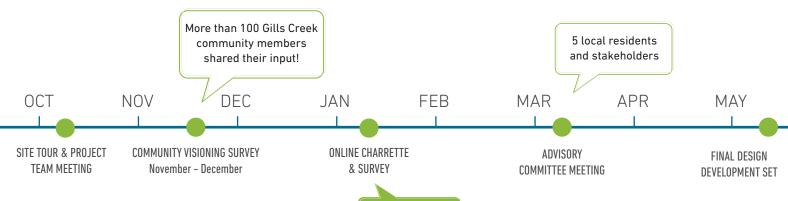












What We Heard | Online Survey & Charrette

"Maybe some kind of boardwalk that goes over Gills Creek swamp areas to have an up close look at the ecosystem and wildlife."

"I would love for the area to feature native plants and be a good place for birds and pollinators. Nature viewing and flood control."

"I would bicycle to it from the

Rosewood neighborhood. Also, I would possibly move to

Rosewood to be near the park."

"For exercise. To

enjoy nature. To walk my dog."

"Keep the vegetation that is currently there as much and as possible."

"Peaceful place to enjoy

the natural creek and

mature trees, walking

or picnicking"

"Signage to include a

brief history of the area

including the flood."

"I would use it as a green

space and park with my children. We would like to

walk and ride bikes there."

possible and if planting is needed keep it as true to the neighborhood

spaces for children to experience nature within city limits"

"Walking for

exercise and wildlife

photography"

"The nature viewing platform and the community area. Also more trail length."

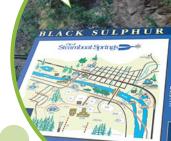


Preferred Concept

Concept 1: Concept 2: Nature Trail Neighborhood Hub

Other

"We need more

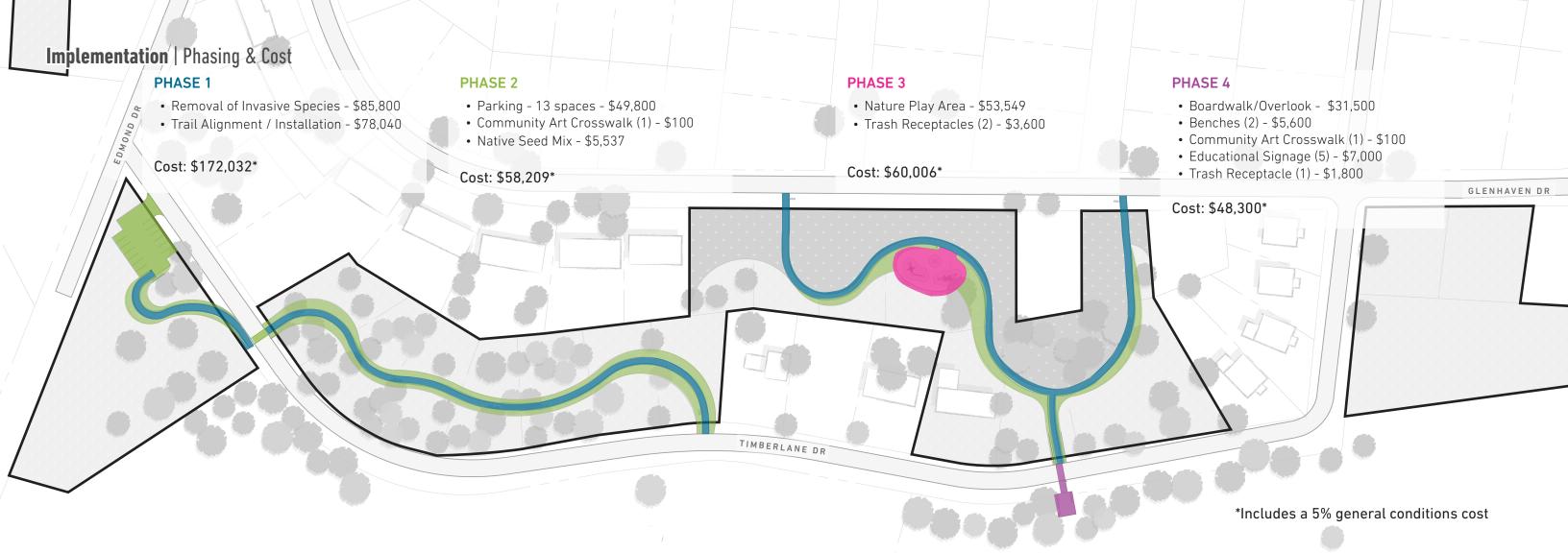




Vision | Experiencing the Reserve









www. gillscreekwatershed.org