Kingwood Park- Preliminary Design Ideas
Kingwood Park- Buffer Area

- **Primary**
  - Nutrient Reduction
  - Evapotranspiration
  - Reduce Sedimentation
  - Increase Roughness
  - Increase Ponding
  - Mitigate flows

- **Secondary**
  - Species Diversity
  - Habitat
  - Aesthetics
  - Other Recreation
  - Soil Health
Kingwood Park- Buffer Area

• Double species diversity
• Restore vegetative strata
• Eliminate areas of concentrated flow through buffer
• Add food and shelter (birds) (amphibians)
Stream Buffer

Buffer Enhancement

- Wet meadow revegetation
- Gully plug/repair
- Bank stabilization

Stabilize discharge
Wet Meadow Area

Trees
Shrubs
Wet Meadow
Old turf to native grass
BMP’s – Rain Gardens, Bio Swale, Constructed Wetland

- Water quality
- P & Fecal Reductions
- Evapotranspiration
- Explore Recharge
- Habitat
- Education
- Innovation & Adaptation
- Retrofitting
Kingwood Park

Rain Gardens
1. Deer Resistant
2. All Grass/sedge
3. All Native
Rain Gardens

Urban Rainfall

Rain gardens brighten up yards and help keep Anchorage's creeks flowing cleanly and smoothly.

A Natural Filter

A rain garden is a garden in one spot that helps prevent pollutants from entering surface water and groundwater. Rain gardens are a simple way to reduce pollution from stormwater runoff. Rain gardens are a natural way to filter pollutants from the water. Rain gardens are a natural way to filter pollutants from the water.

Build Your Own Rain Garden

With a little effort, you can build a rain garden that will help reduce water pollution. Rain gardens are simple to build and do not require much maintenance. Rain gardens can be built in a variety of places, such as a yard, a street, or a park.

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Kingwood Park - Rain Garden
Bio-Swale
Bio-Swale
Bio-swales
Gravel Wetlands
Gravel Wetlands
NOTE: ALL RISER PIPES CONTAIN 4 3/4 PERFORATIONS AT 90 DEGREES TO EACH OTHER ON 3" CENTERS.

6" ADS CLEANOUT TO BE PERFORATED ONLY TO THE TOP OF GRAVEL.

6" ADS PERFORATED STANDPIPE WITH MUSGAMCOUPLING TO 1" ORIFICE (SEE DETAILS).

FLOW PATH & INW @ 25.5'

SELECT FILL

APPROX. EL. OF SUBGRADE (SEE SHEET 5)

EXISTING SOIL

6" WETLAND SOIL

8" WETLAND SOIL

2' STONE

8" ADS UNDERDRAIN INV = 79.0

8" ADS INV = 78.8

3" DIA RISER W/ OPEN GATE

6" DIA GALVANIZED RISER

4" DIA PBCD

4" DIA PERFORATED SUBDRAIN

5" DIA INNER

55" 8"
Thanks

- Questions?
- Better look at Gravel Wetlands?