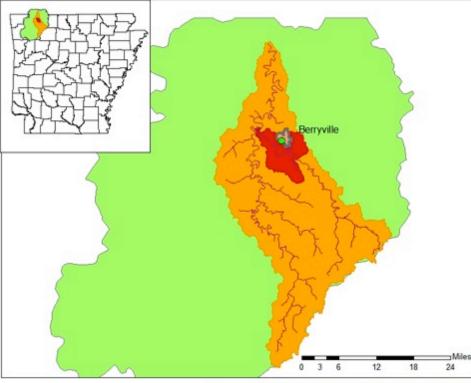


Project Location



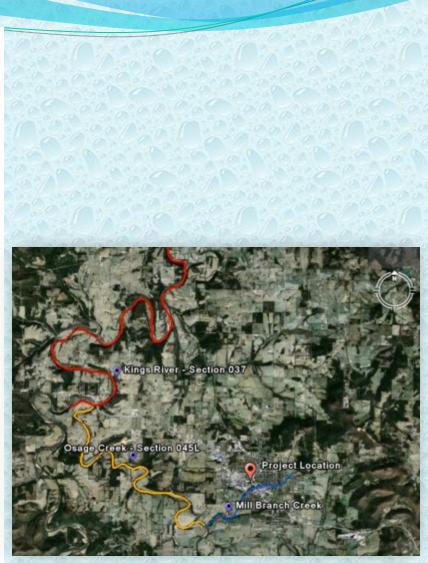
Mill Branch Project Location



HUC 12 Warden Branch-Osage Creek

HUC 8 Beaver Reservoir Mill Branch Reach





Project GOALS

◆Decrease Sediment Flow;
 >through erosion control (rock weirs/cross veins) and
 >bank stabilization

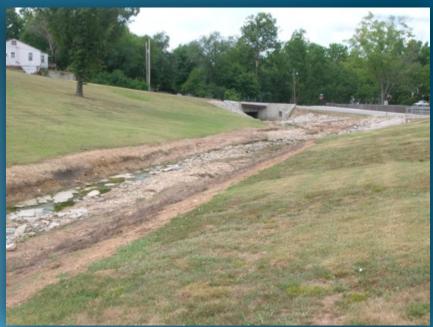
Restore the Riparian zone
 Creating urban green space
 Restore streamside ecology

Showcase best management practices
 Increase public awareness about steam bank erosion
 Reduction of sediment load (est. at 7000 cubic ft/year) to the Kings...

Before project work...

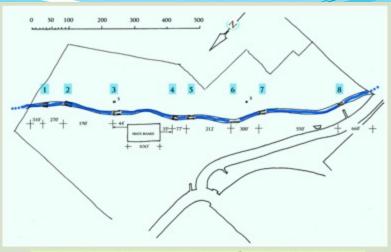


Mill Creek Branch, Berryville AR; Berryville Community Center Park -- Looking upstream



-- Looking downstream

Rock Weirs redirect water flow to center channel; create water fall (step) and pooling, slow water and capture sediment.

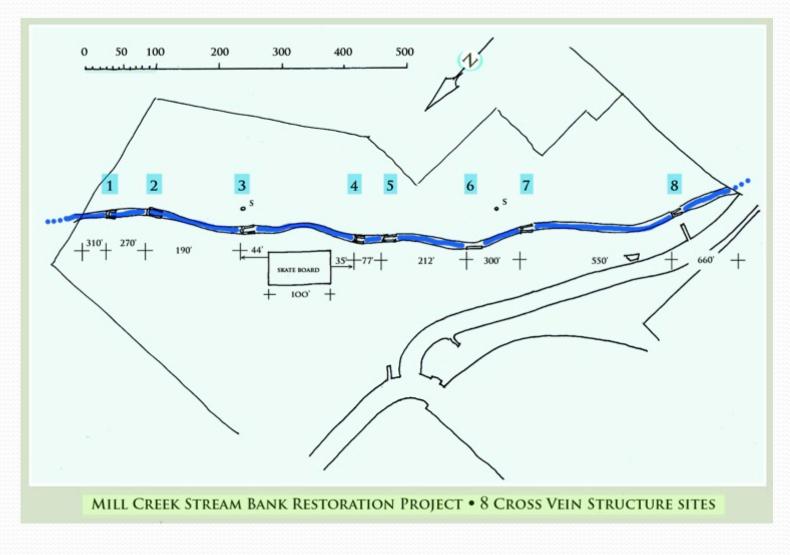


MILL CREEK STREAM BANK RESTORATION PROJECT • 8 CROSS VEIN STRUCTURE SITES





Rock Weirs, redirect water flow to center channel; create water fall (step) and pooling, slow water and capture sediment.

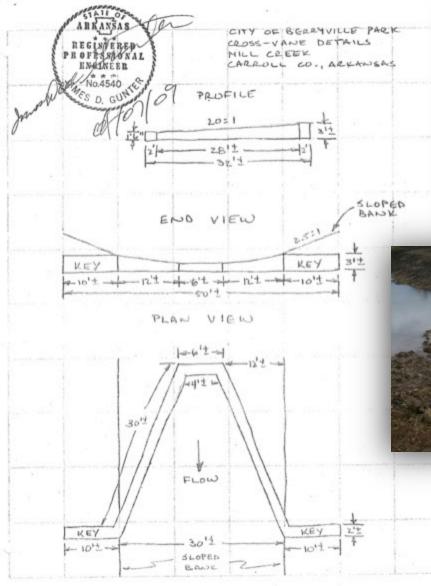








The rock structures...







Rock Weir / Cross Veins Structure Shape to focus stream flow Step/Fall & Pooling Keys & Dowels to anchor structure to bank side and bed



Rock Weirs









Re-Vegetation

- Plants chosen to: Restore stream bank stabilization soil stability; erosion control; provide habitat and food source – birds, insects, animals...; added benefit as well to restore this urban green space / parkscape.
- Plants include 500 shrubs donated by U of A Cooperative Ext. Services, John Pennington, and others donated by Dave Evans, AR Fish and Game Commission. Plants from Forrest Keeling Nursery, MO.
- First Phase to include aprox. 1,500 plants, to include:

Shrubs: (most as 18" bare root stock)
 Shrub Indigo, Amorpha fruiticosa
 Buttonbush, Cephalanthus
 occidentalis
 Redosier Dogwood, Cornus
 stolonifera (sericea)
 Eastern Witch Hazel, Hamamelis
 virginiana
 Gray Dogwood, Cornus foemina
 (racemosa)
 Silky Dogwood, Cornus amomum
 Ninebark, Physocarpus opulifolius
 Southern Arrowwood, Viburnum

Trees: (Containers)

Red Maple, Acer rubrum (red sunset) X Bur/White Swamp Oak, Quercus x schuettei (Kimberley Oak) Northern Red Oak, Quercus rubra Triumph Elm, Ulmus X (Morton Glossy) Black Gum, Nyssa sylvatica Sycamore, Platanus occidentalis

Where we go from here & now... Celebrate the PROGRESS of this urban stream rehabilitation! Saturday, April 9th 2 pm to 4 pm Here at Berryville Community Center Lot overlooking the Branch

The original grant requirments: > Demonstration Workshop > Monitoring > Reporting, including Final Report

VOLUNTEER !!! Please help us plant, several phases, may start April 2nd or April 7th, 8th, or even the 9th a.m.

Sign up sheet in back - we will contact you.

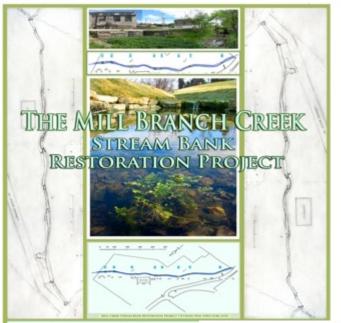












2011 - 2013 Wildlife Observation Trails Grant





AR Game & Fish Commision

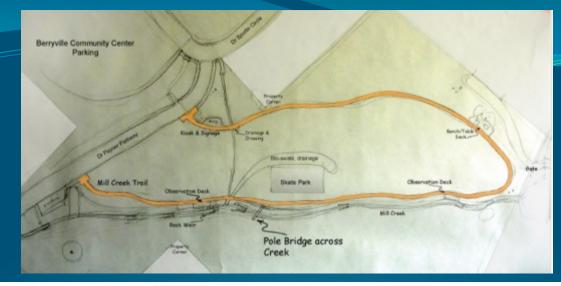
Mill Branch Creek Berryville AR

Wildlife Observation Trail Grant

BEREIVILLE COMMUNITY CENTER + JANUARY 2010

The City of Berryville has submitted for a Wildlife Observation Trail Grant, funded by AR Game & Fish, via the AR Dept. of Parks & Tourism – to create a trail corridor and access along the branch; as extension of the City's Master Plan Urban Trail System.

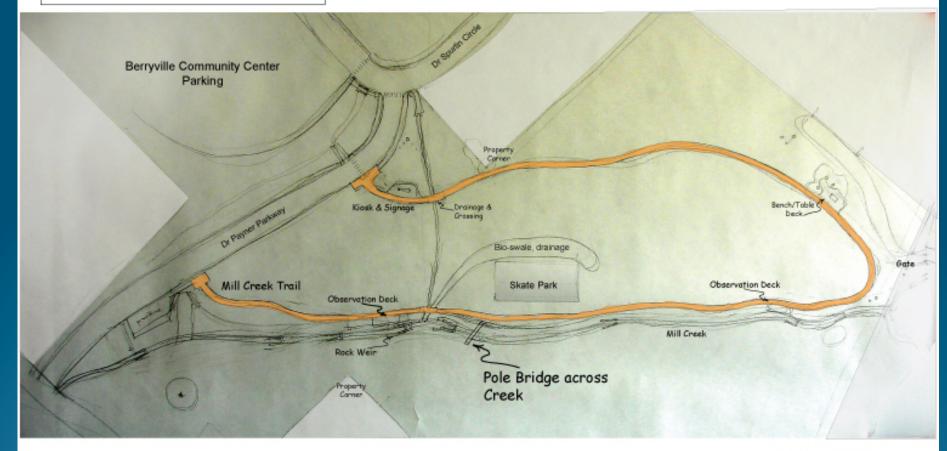




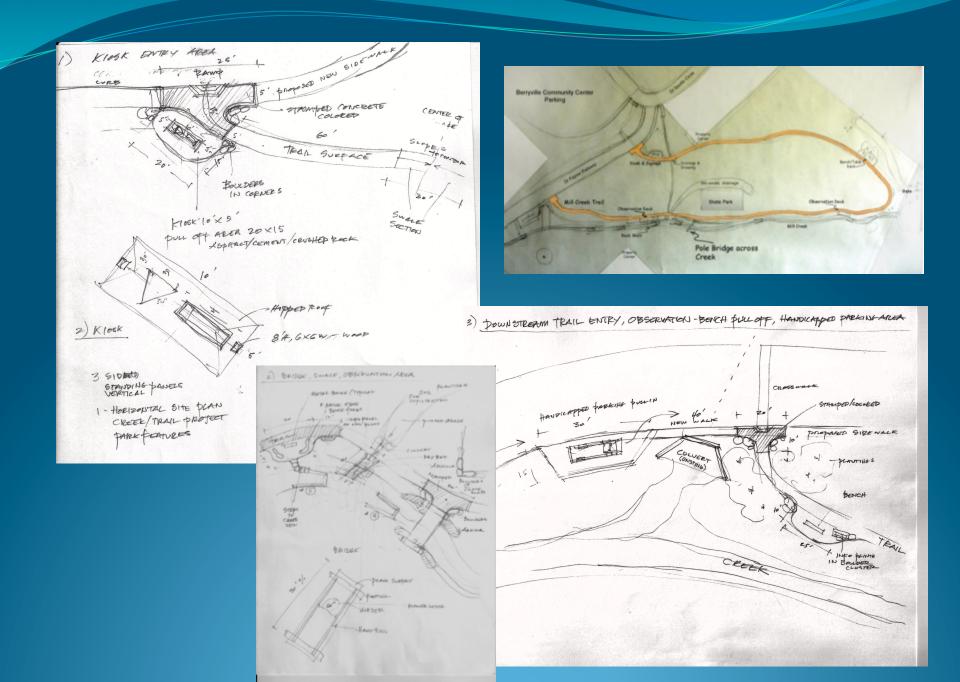




Mill Creek Wildlife Observation Trail Berryville Community Center Berryville, AR



Site Plan Sketch/H. Orig. - Chris Fisher, jps Jan. 2012



THANK YOU !!!

The Kings River Watershed Partnership

is doing good. and having fun Write a letter of THANKS to:

- Jimmy Jones, and Jimmy Jones Excavation
- Dave Evans with AR Game & Fish Stream
 Team

 City of Berryville, Mayor Tim McKinney & Council Members