

Downtown Newland Clean Water Community Park

USDA-CSREES National Water Conference

Presented by

NC State University

Biological & Agricultural Engineering

A & T State University

NC Cooperative Extension

Town of Newland

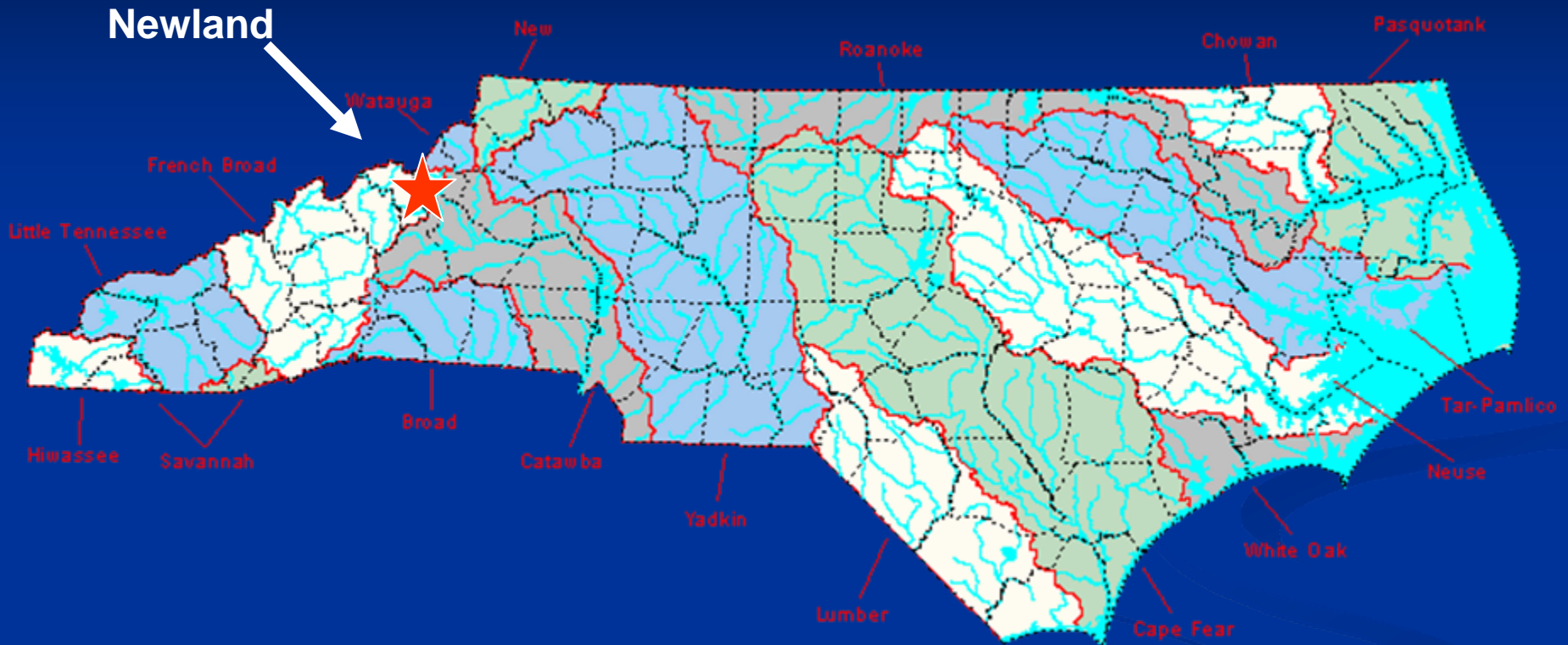


North Carolina Department of Environment and Natural Resources

Division of Water Resources



The State of North Carolina



Newland is located at the Headwaters of the French Broad Watershed in the Mountains of Western North Carolina

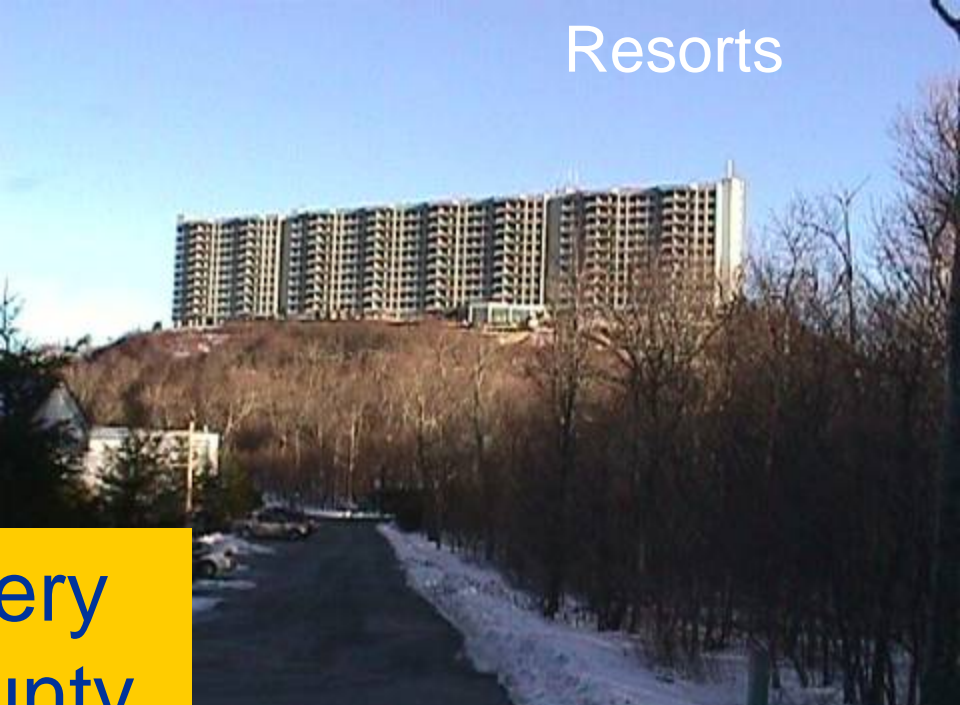
Beautiful Small Town America

Elevation is 3,606 feet. Highest county seat east of the Mississippi.
The estimated population, in 2003, was 706.





Skiing

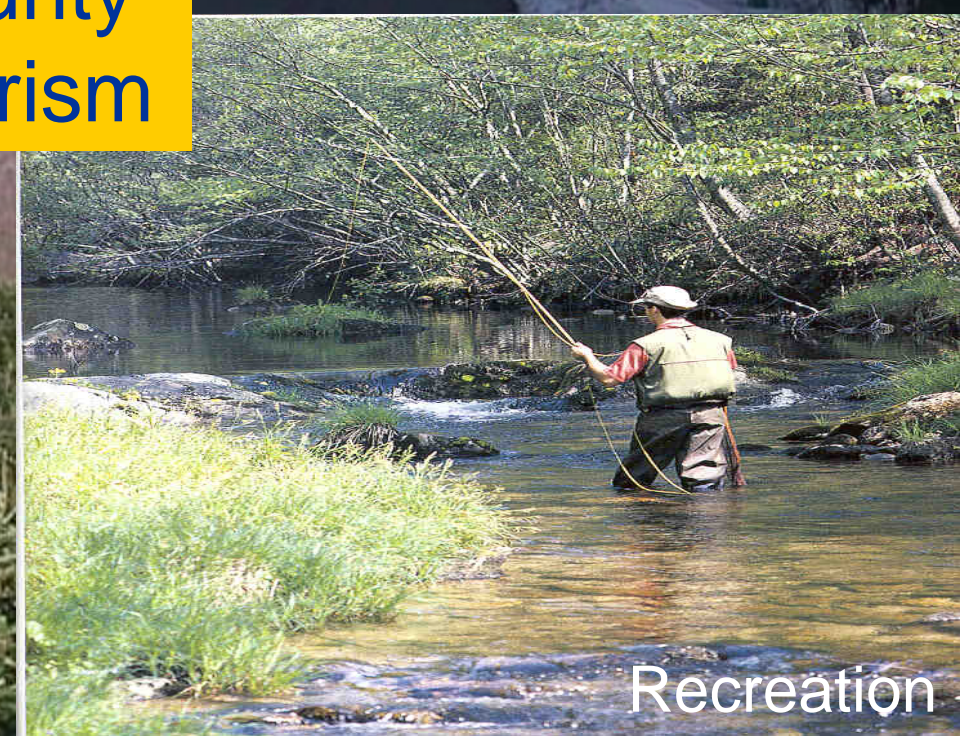


Resorts

Avery
County
Tourism



Agriculture - Choose & Cut



Recreation

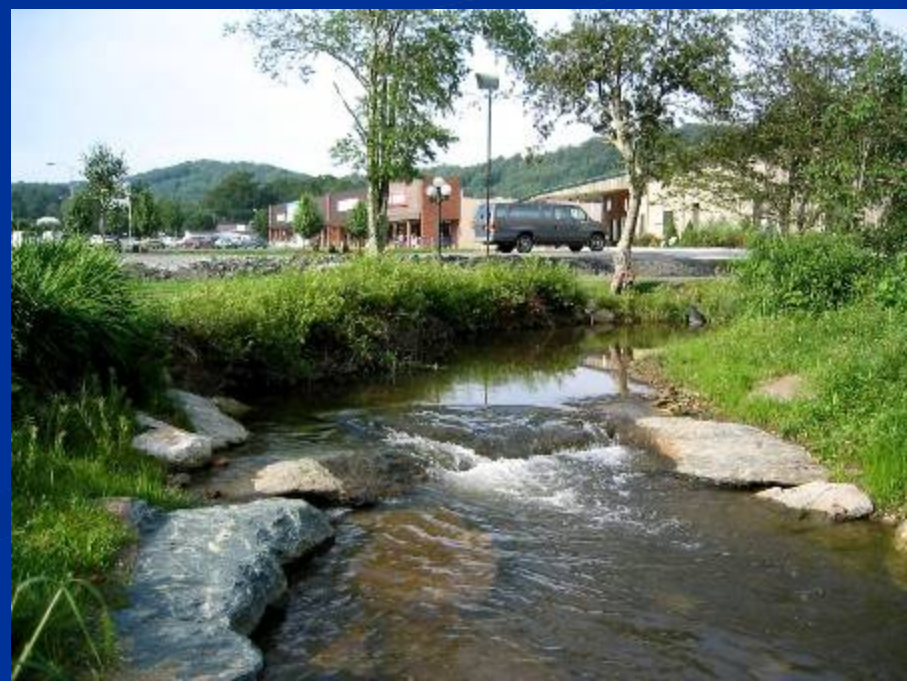


Kentucky Creek Stream Stabilization Project – Just upstream from stormwater project





Completed in Spring 2004



Fall 2004 back to back floods



**Hurricane Ivan
100 yr event
with 16.5"**

**Hurricane
Frances
500 yr event
with 22.5"**

Business Area Redevelopment Plan



- North Carolina General Assembly passed Senate Bill 7, the Hurricane Recovery Act of 2005. Authorizing 5 million in grants for economic recovery and redevelopment activities.
- Newland received funding for building repair, property acquisition, relocating town wells, sealing manholes, and curb and guttering.
- Meetings with Town Administration and Operations, Division of Water Resources, NCSU BAE staff, NCSU College of Design, & NC Wildlife Resources.



RAILROAD ST

HILLCREST ST

PHARMACY ST

BARDEE AVENUE

PINEOLA ST

LINDALE ST

HOWLAND ST







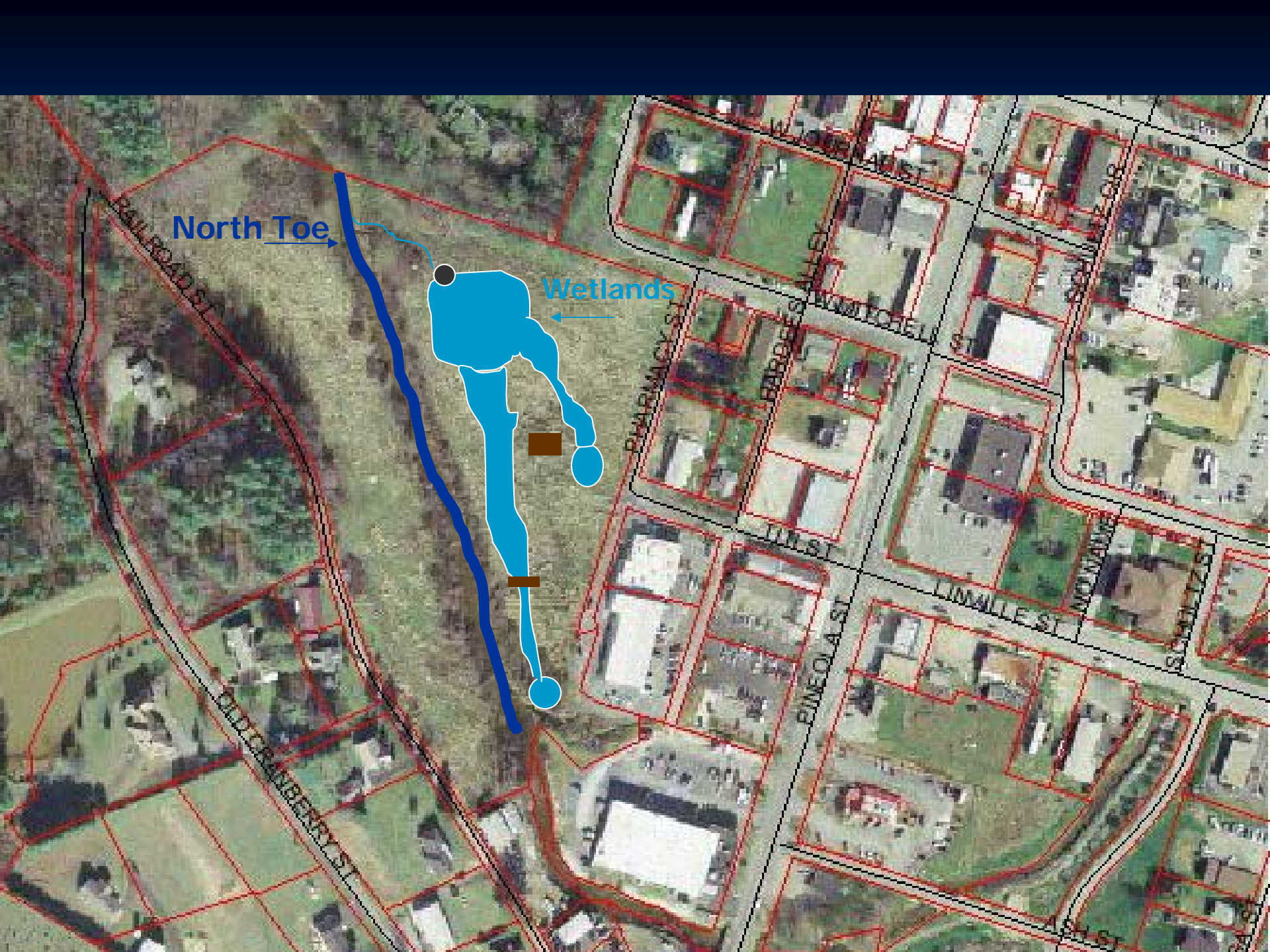
North Toe River



Newland



Floodplain



North Toe

Wetlands

RAILROAD ST

MIDCRAWBERRY ST

PHARMACY ST

BIRDEE ST

LIN ST

PINEOLA ST

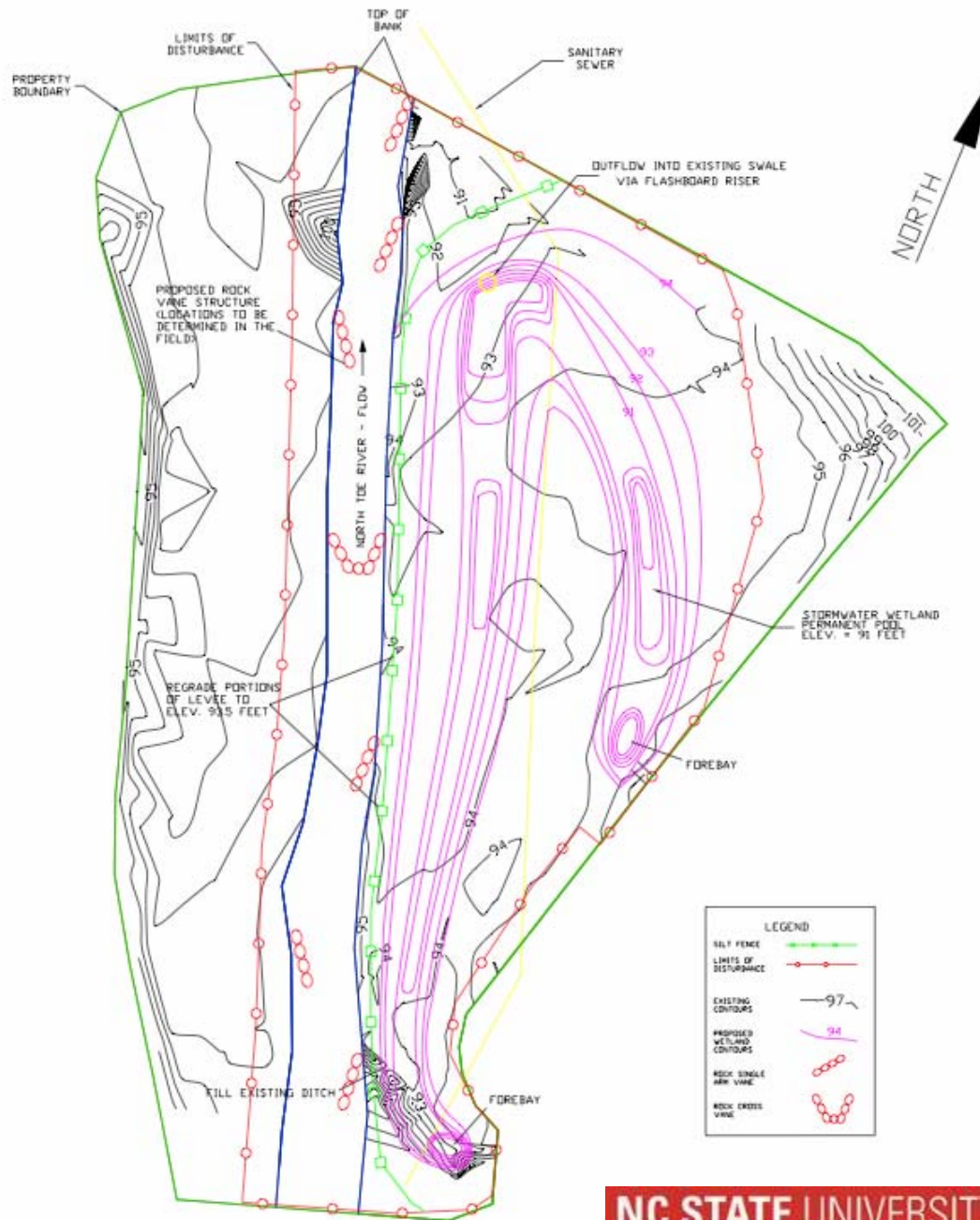
WILSON ST

MAYNOR ST

LINALLE ST

NORMAN ST

SCHOENLICKS ST



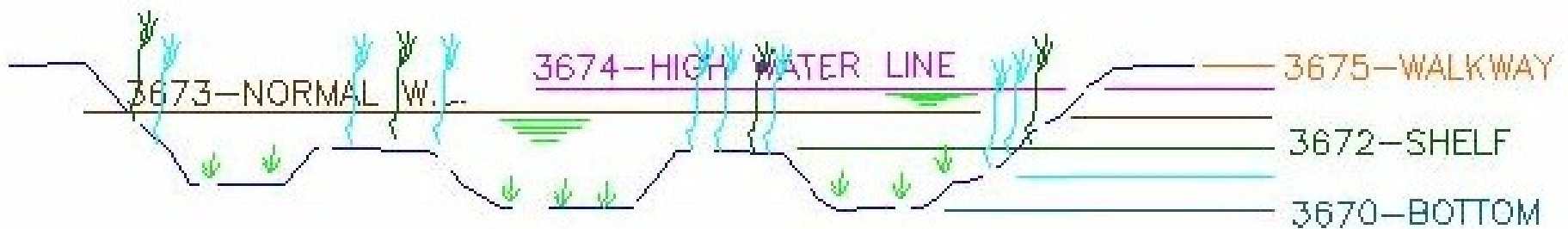
17 acre drainage







Cross sectional view of Stormwater Wetland



Looking Through The Ground—Sectional View

Not To Scale

Pools and shelves create a diverse habitat for many different plants and animals to live.





















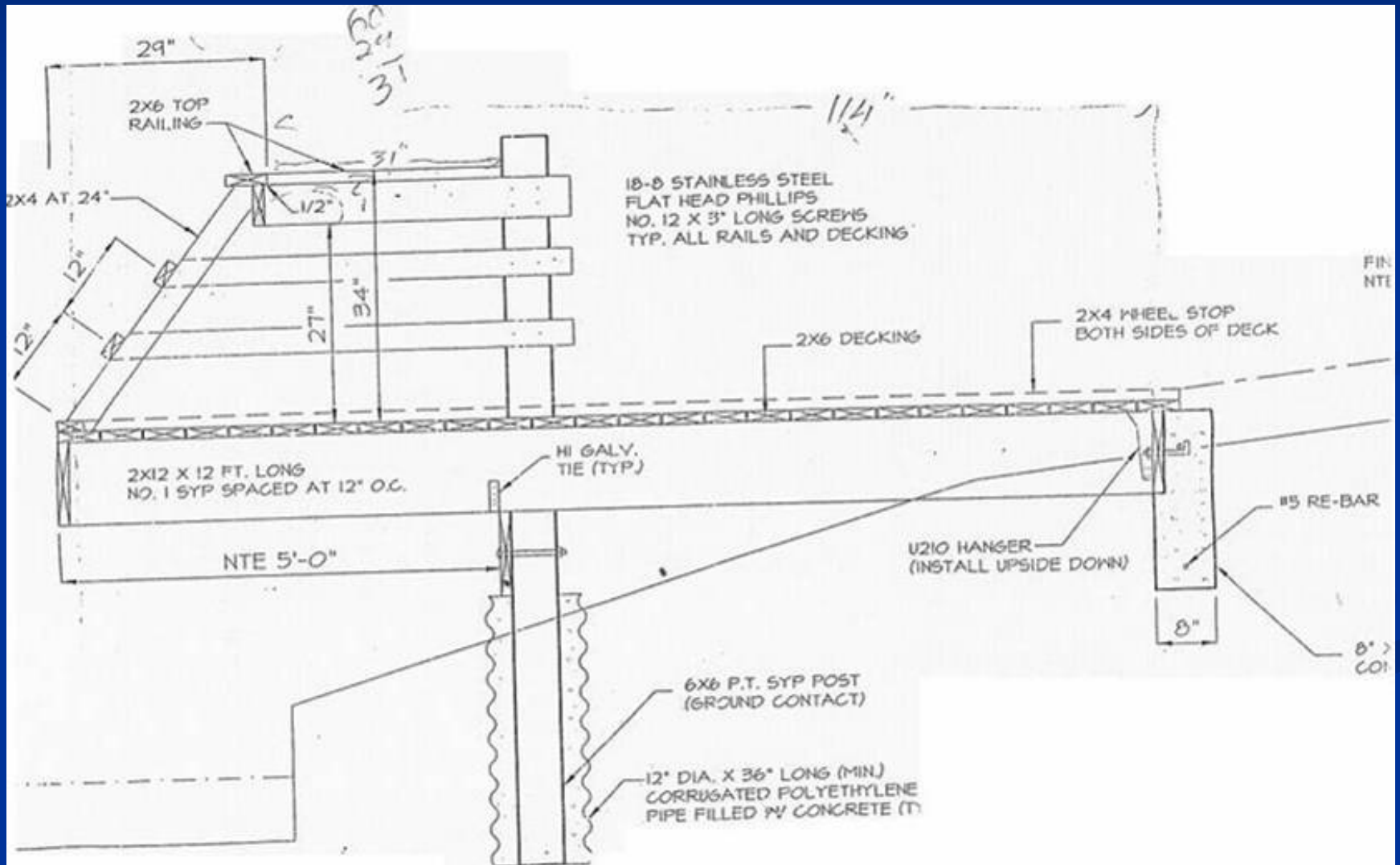








Handicapped Accessible Fishing Piers Installed by the NC Wildlife Resources Commission









Goals of the Constructed Stormwater Wetland

- Education- from elementary school to engineering firms and University studies
- Final cleansing stage of the stormwater
- Serve as a model for other towns in Western NC that have similar needs for stormwater control
- Provide a diverse habitat for birds, plants, insects, and amphibians.
- Enhance the beauty of the town park

Photo courtesy of Bill Hunt



Kids in the Creek



Avery County Middle School students help clean up the site before the construction started.





EXIT 144

Stinking Creek Rd





Thanks to Jason Zink, Zan Price, Justin Church, Greg Jennings, and NC DWR.

Special Thanks to the Town of Newland Council and Employees

Roby Shomaker Wetlands and Family Recreation Park

Valerie Jaynes

Brenda Pittman

Donetta McKinney

Stanley Hollifield

Rufus Henley

Roxanne Roberson

Rick Stapleton

Keith Hoilman

