PRESENTATION FOR THE BLACKBERRY CREEK WATERSHED COMMITTEE

Illinois River Basin Restoration SECTION 519
BLACKBERRY CREEK FISHPASSAGE PROJECT

Hank DeHaan *Program Manager Section 519*

John Ortlieb *Study Manager/ Planner*

Anthony Heddelsten, P.E. *Project Engineer*

USACE- ROCK ISLAND DISTRICT

16 November, 2010

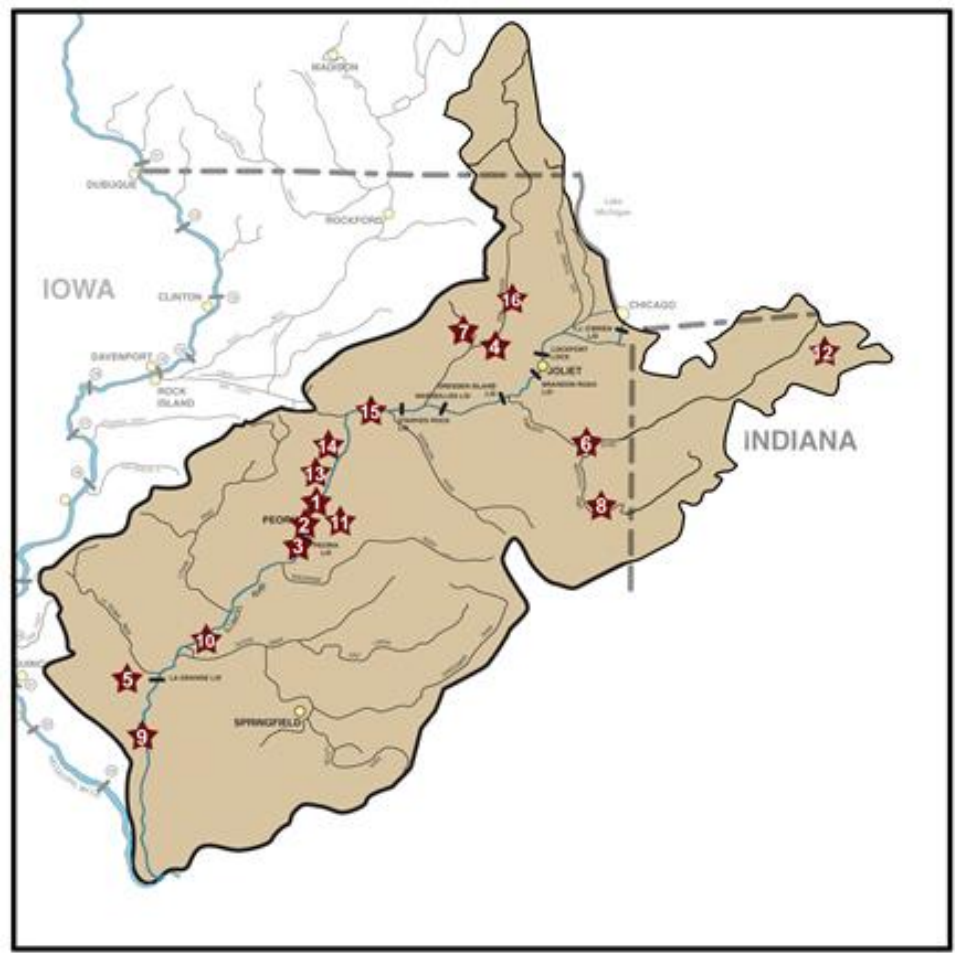
US Army Corps of Engineers
BUILDING STRONG®

ILLINOIS DEPARTMENT OF NATURAL RESOURCES

AUTHORITY

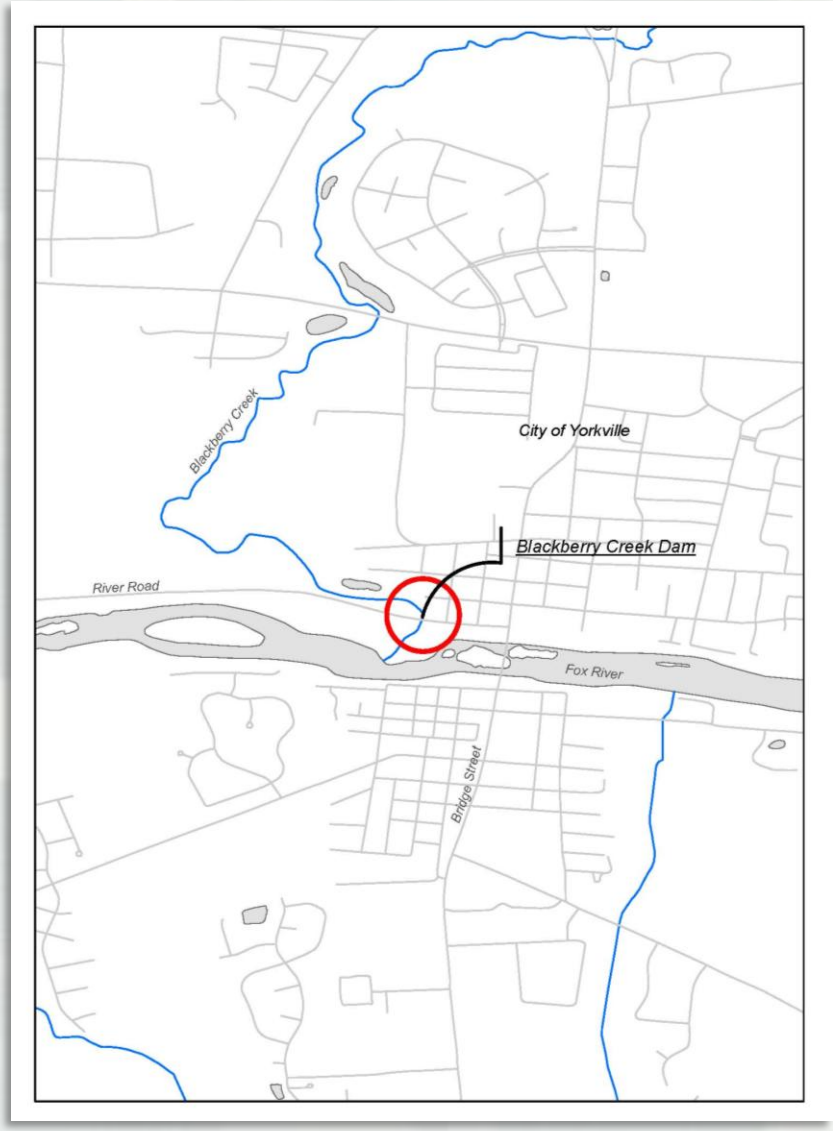
- Illinois River Basin Restoration, Section 519 of the Water Resources Development Act of 2000.
- Authorizes implementation of critical restoration projects that produce independent , immediate, and substantial restoration goals of increasing connectivity of aquatic habitat, restoring floodplain habitat, and maintaining viable populations of native species.

Illinois River Basin Critical Restoration Projects (Section 519)



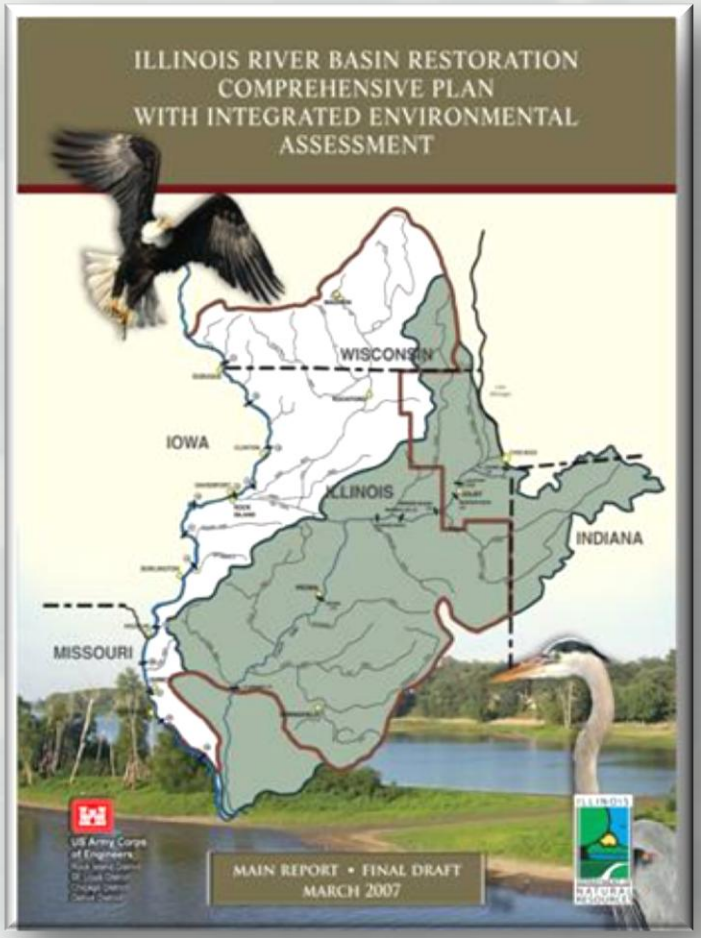
1) Peoria Riverfront (Upper Island)
   ASA approved 27 February 2004
2) Pekin Lake (North) **ASA approved 05 May 2006**
3) Pekin Lake (south)
4) Waubonsie Creek **ASA approved 16 June 2010**
5) McKee Creek
6) Kankakee River
7) **Blackberry Creek**
8) Iroquois River
9) Alton Pool Side Channels & Islands
10) LaGrange Pool Side Channels & Islands
11) Tenmile Creek
12) Yellow River
13) Senachwine Creek
14) Crow Creek West
15) Starved Rock Pool Side Channels & Islands
16) Fox River Fish Passage

PROJECT LOCATION



BUILDING STRONG®

SIGNIFICANCE



- **WRDA 1986 – Illinois River system a "nationally significant ecosystem" part of Upper Mississippi River System.**

- **National Academy of Science identified Illinois River as one of few world-class floodplain ecosystems.**

- **The State of Illinois developed *Integrated Management Plan for the Illinois River Watershed (1997)* working with multiple local, state, and Federal groups and enacted the Illinois River Watershed Restoration Act (1997).**

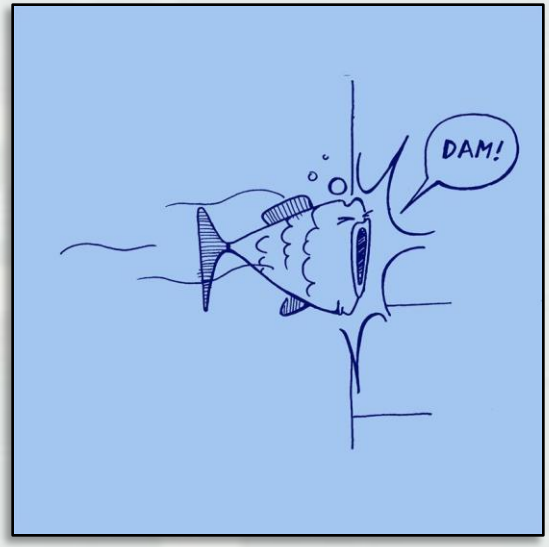
- **Illinois River Basin Restoration Comprehensive Plan 2007 established system limiting factors like reduction of tributary connectivity and goals for restoration.**

PROBLEM: Loss of Connectivity and Species Diversity/ Habitat

- The creeks and rivers that flow into the Illinois River are segmented by impassable barriers for native species of wildlife.

- These barriers prevent fish from utilizing valuable spawning habitat and prevent recolonization of fish and mussels from the Fox River (a major tributary to the Illinois River) after extreme flow events.

- Many of these impediments are in disrepair. Some are failing causing dangerous conditions for water recreation users of the area in the form of large concrete debris and exposed rebar.



Goals of the Restoration Project

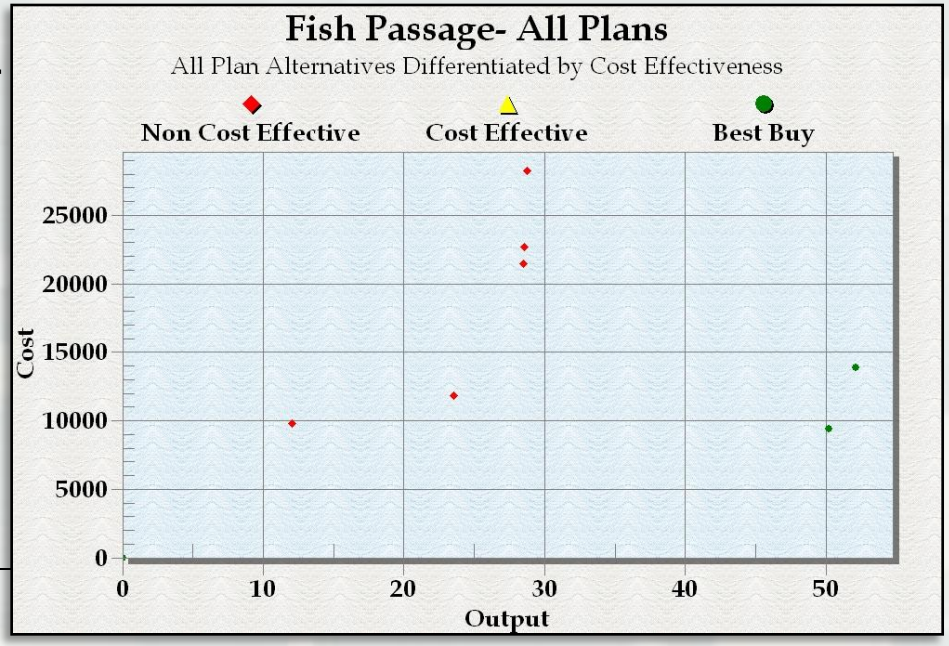
1) Restore aquatic habitat.

2) Restore connectivity.

Objectives

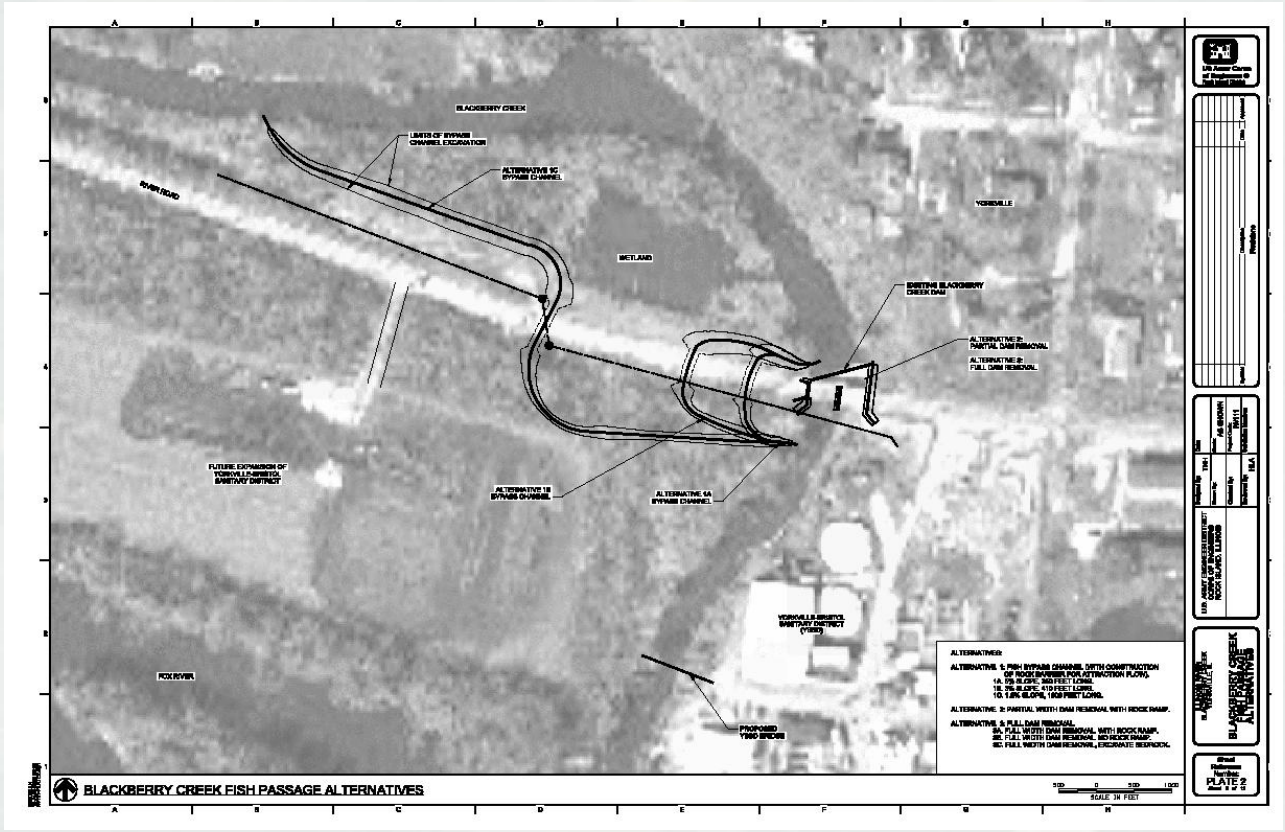
- The recommended plan would restore connectivity between the Fox River and 32 miles of tributary habitat on Blackberry Creek.

- Alternatives screened through IWR Plan Software.
  - ► CE/ICA (Cost Effectiveness/ Incremental Cost Analysis)
  - ► No other plan provides the same output (habitat units) for less cost
  - ► No other plan provides a higher output level for the same or less cost



Proposed Project Features Include:

1) By-pass channel (3 possible layouts)
2) Removal of Blackberry Creek Dam



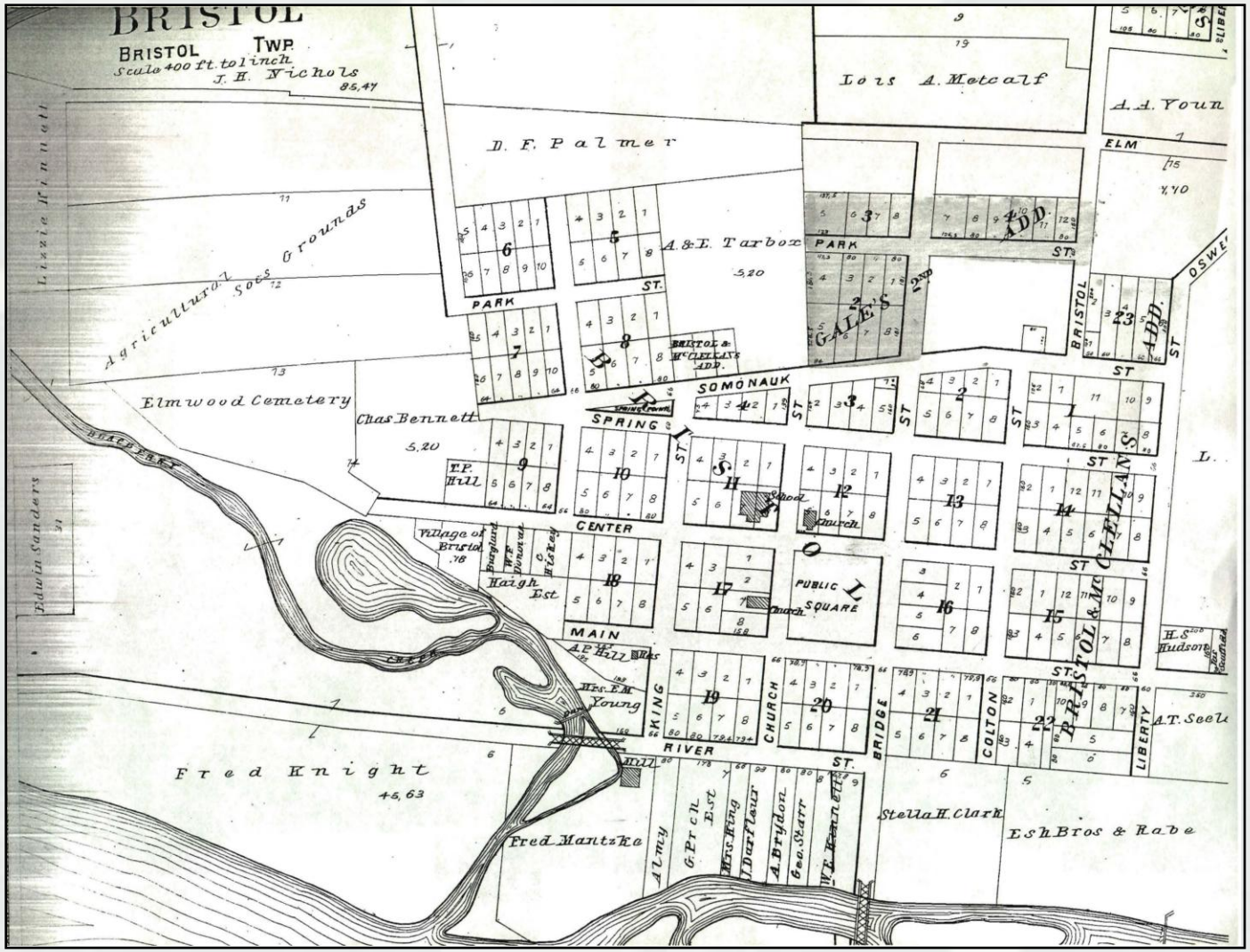
Historic Layout 1842

1834 Dam constructed by John Schneider to power a saw mill.

Historic Layout 1870

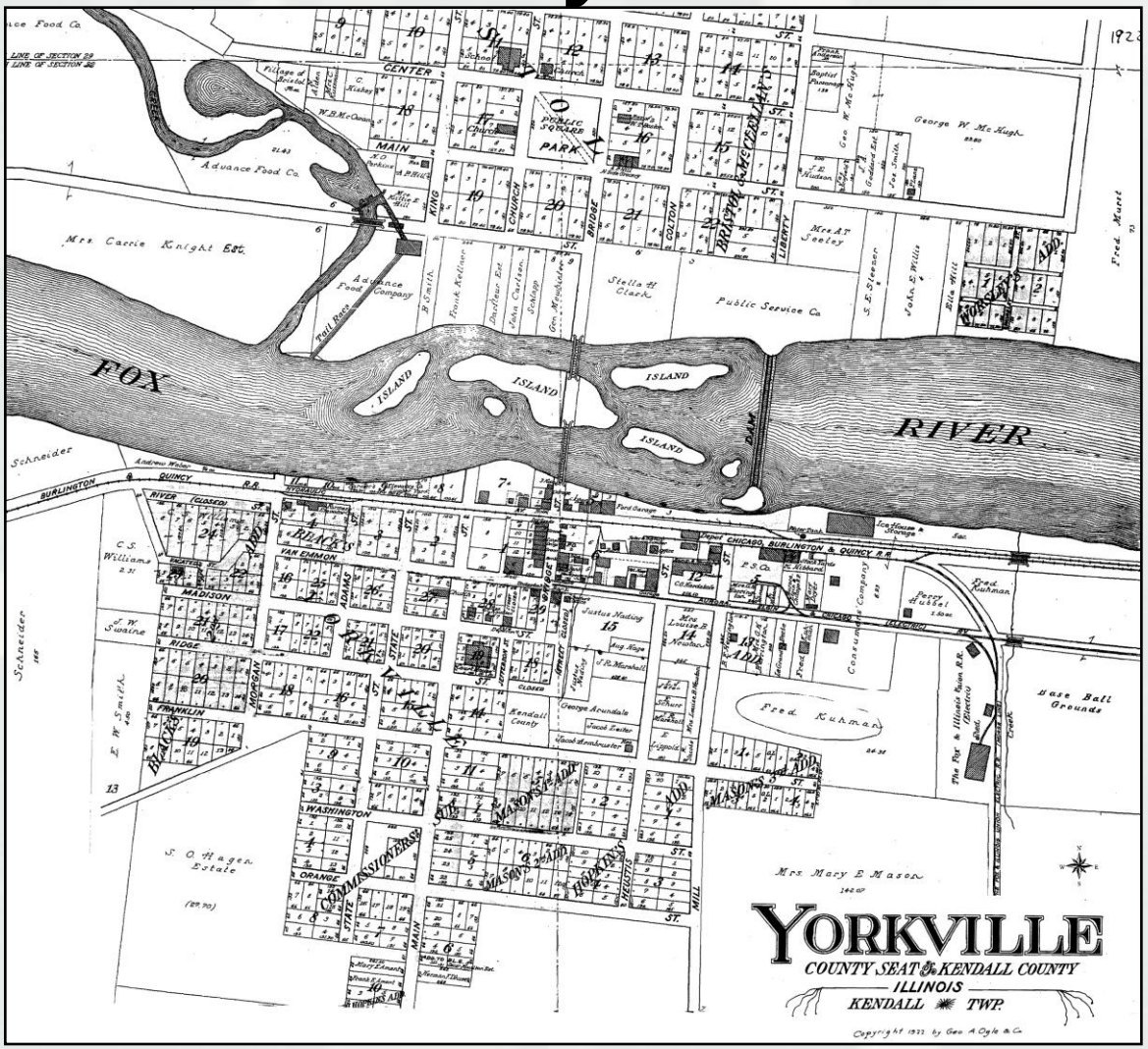
BUILDING STRONG®

Historic Layout 1903



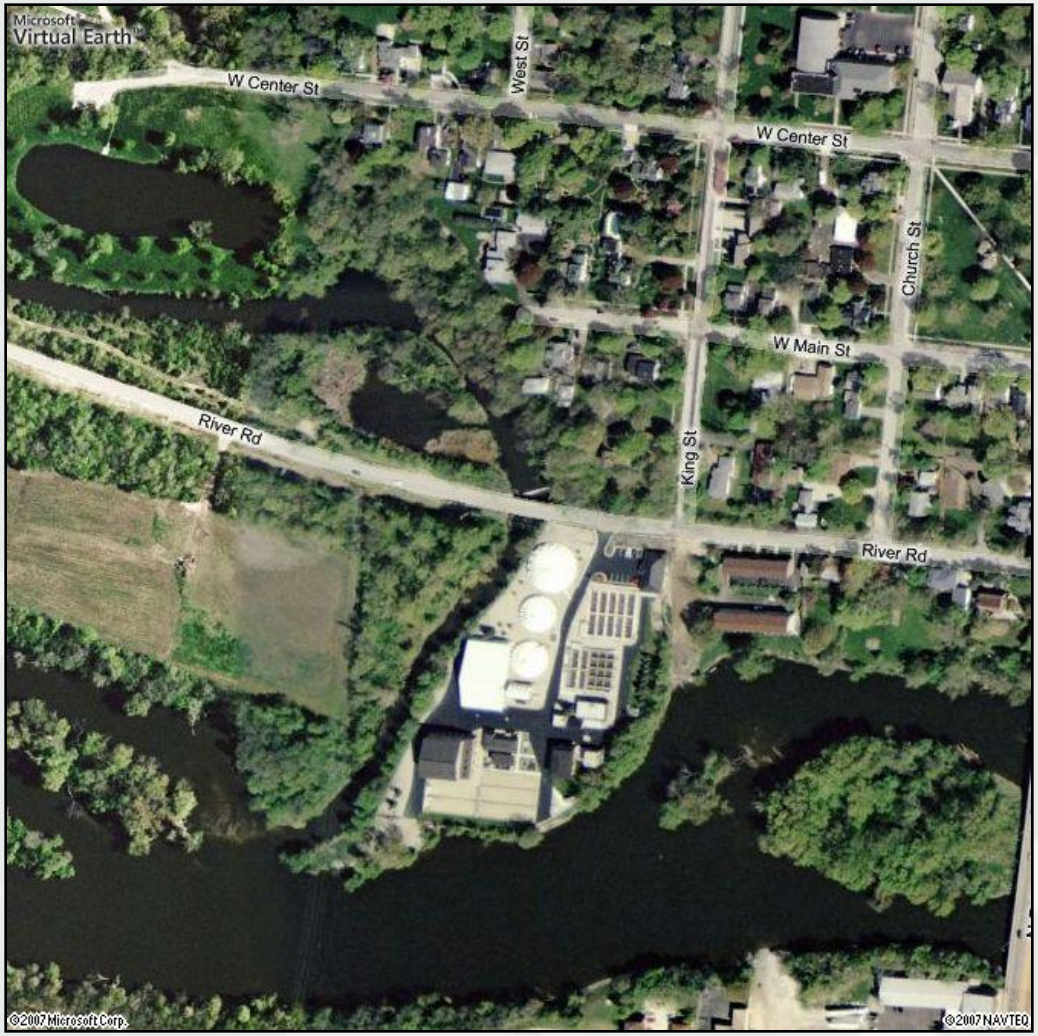
BUILDING STRONG®

Historic Layout 1922

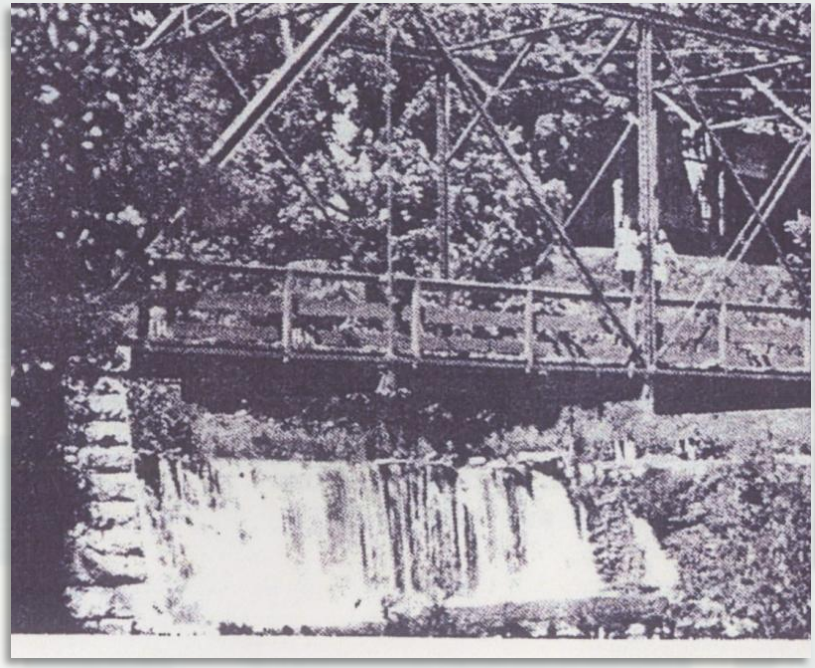


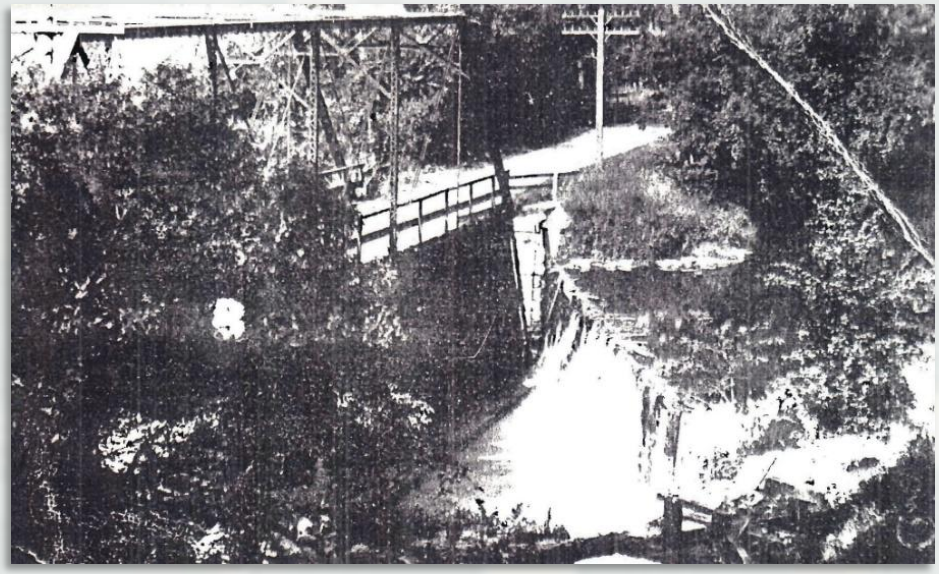
BUILDING STRONG®

Blackberry Creek 2007



Old Steel Bridge (River Road)





Circa 1900 Blackberry Creek Dam.
(A Bicentennial History of Kendall County, 1976.)

Project Cost

- Est. Project Cost: $300,000- $500,000
- Federal Cost (65%): $195,000
- Non-Federal Cost: $105,000

Schedule

Feasibility Study

Activity/Milestone	Milestone	Start Date	End Date	Milestone	Duration (Days)			Comments
					Current	Agr.	Cons.	
Develop Feasibility Report		**Complete**			**90**	60	90	Work on initial draft of Feasibility Report. Duration ends with completion of PRP.
	Post Approved Peer Review Plan		**Complete**	CW035				
Complete Draft Feasibility Report		**1-Oct-10**	**30-May-11**		**241**	varies	varies	Complete draft Feasibility Report ready for ATR. Duration ends with completion of report and VE/VM. (VE/VM is only required for projects > $2M, takes about 30-60 days)
	Draft Feasibility Report		**30-May-11**	CW150				
	Feasibility VE/VM Complete		**30-May-11**	CW290				
Conduct ATR		**31-May-11**	**1-Oct-11**		**123**	90	120	Complete ATR. Send report package to MVD & HQ and conduct IPR (i.e., planning charette/AFB). MVD concurrently performs policy compliance review and generates Division Cmndr's Endors.
	HQ In-Progress Review (IPR)		**1-Oct-11**	CW190				
	Feas. Div. Cmndr's Endorsement		**1-Oct-11**	CW260				
Prepare for Public Review		**2-Oct-11**	**1-Nov-11**		**30**	15	30	Prepare for and schedule public review.
	Feas. Public Review Period Start		**1-Nov-11**	CW250				
Conduct Public Review **Feas. State/Agency Review**		**1-Nov-11**	**10-Jan-12**		**70**	30	60	Complete public review and state/agency review at same time. Duration ends with submission of Final Feasibility Report to MVD and USACE HQ for HQ review.
	Complete Agency/Public Review		**10-Jan-12**	CW250				
	Submit Final Feasibility Report		**10-Jan-12**	CW160				
HQ Policy Compliance Review		**11-Jan-12**	**10-Jul-12**		**181**	120	180	Perform HQ review (producing final report and PGM). Then perform final ASA review resulting in HQ and ASA (CW) approval.
	Feasibility Report Approval		**10-Jul-12**	CW170				

Thank you all for your time. Questions?

John Ortlieb
Study Manager/ Planner, Rock Island District
john.t.ortlieb@usace.army.mil
(309)794-5007