

# Agenda

- Review Outcomes of CAC 1
- Review Alternatives for Echo/Franz & Canal
- 3. Group Work SWOT of Alternatives
- 4. Focus Group Nominations



### **Review Outcomes of CAC 1**



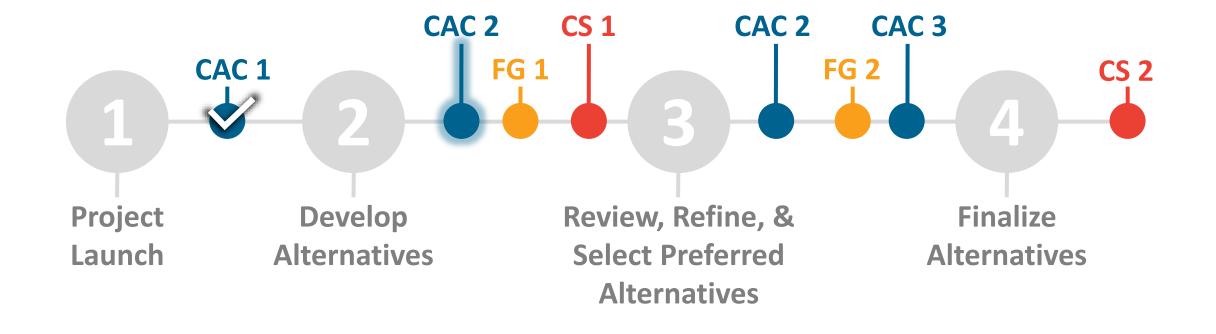
# Schedule + **Next Steps**

Focus Group Round 1 - August, 2022

**Community Summit 1 - August, 2022** 

**CAC Meeting 3** - Monday, August 22nd, 2022 (Tentative)

Dates may be subject to change.



**CAC** – Citizen Advisory Committee **FG** – Focus Group **CS** – Community Summit

## **Outcomes of CAC Meeting 1**

- A need to take a step back and review all of the alternatives in detail
- Discussions with ODNR on exceptions to the regulations
  - City has reached out to ODNR (scheduling to meet in the coming weeks)

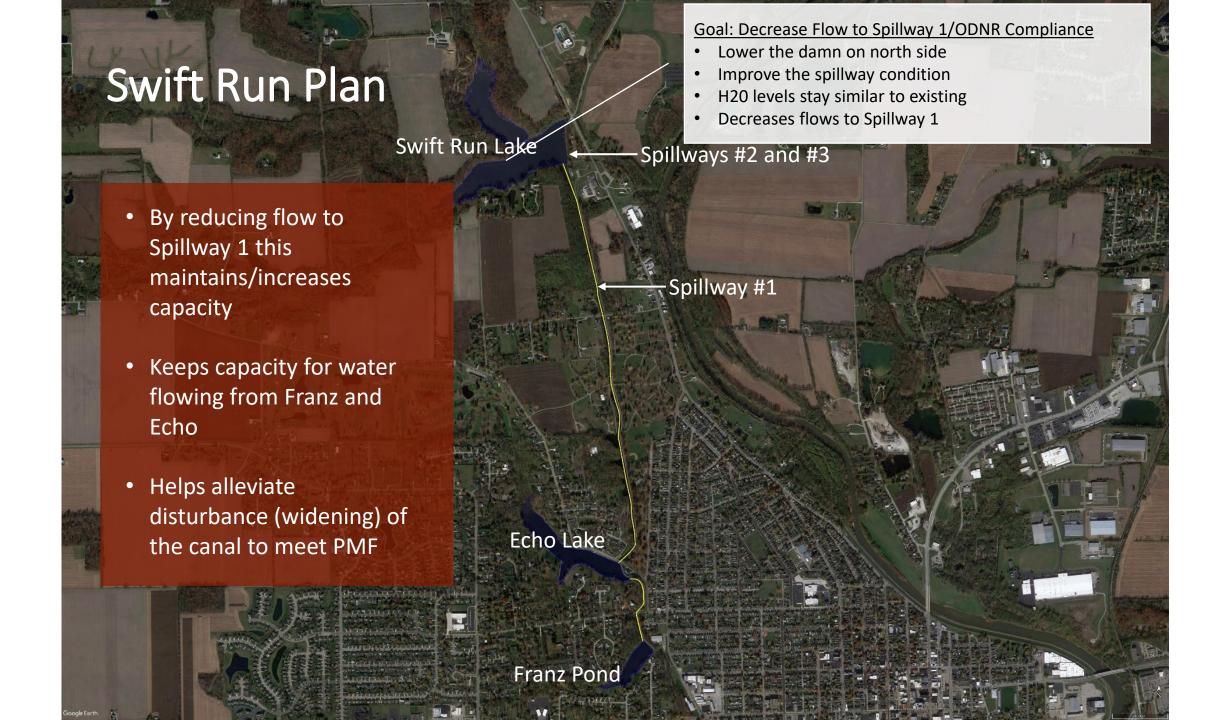
# Last Time We Reviewed Select Alternatives for Echo/Franz & Canal

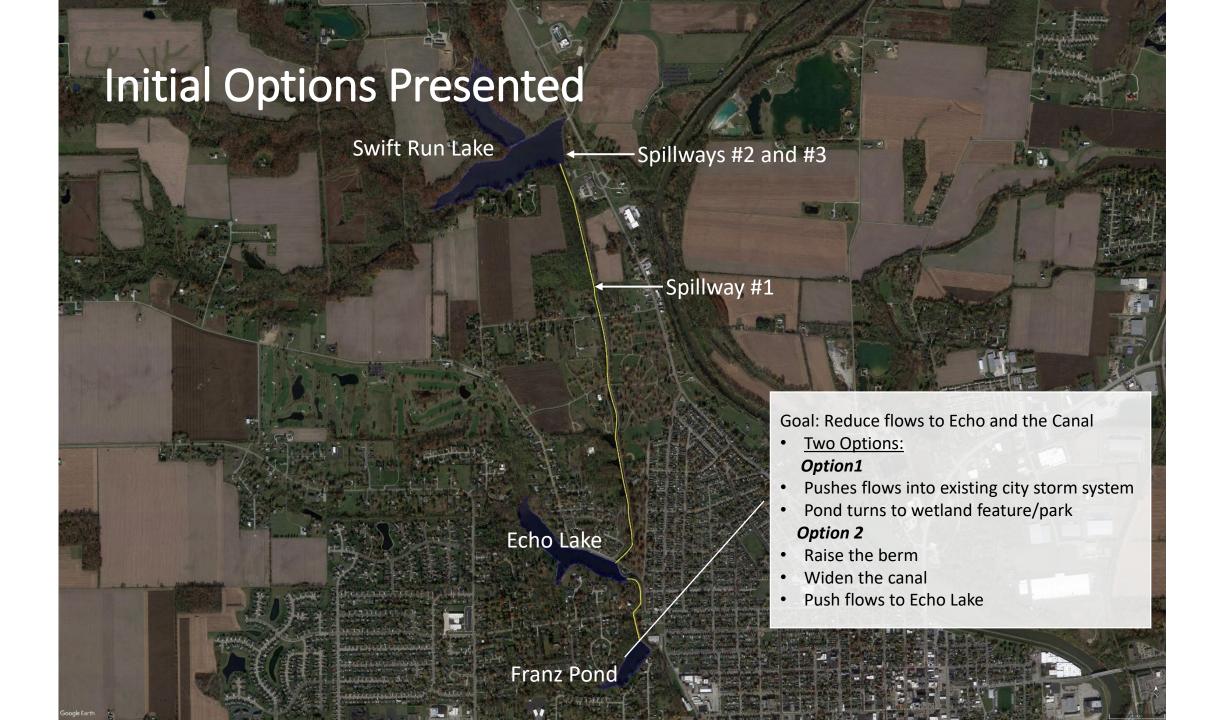


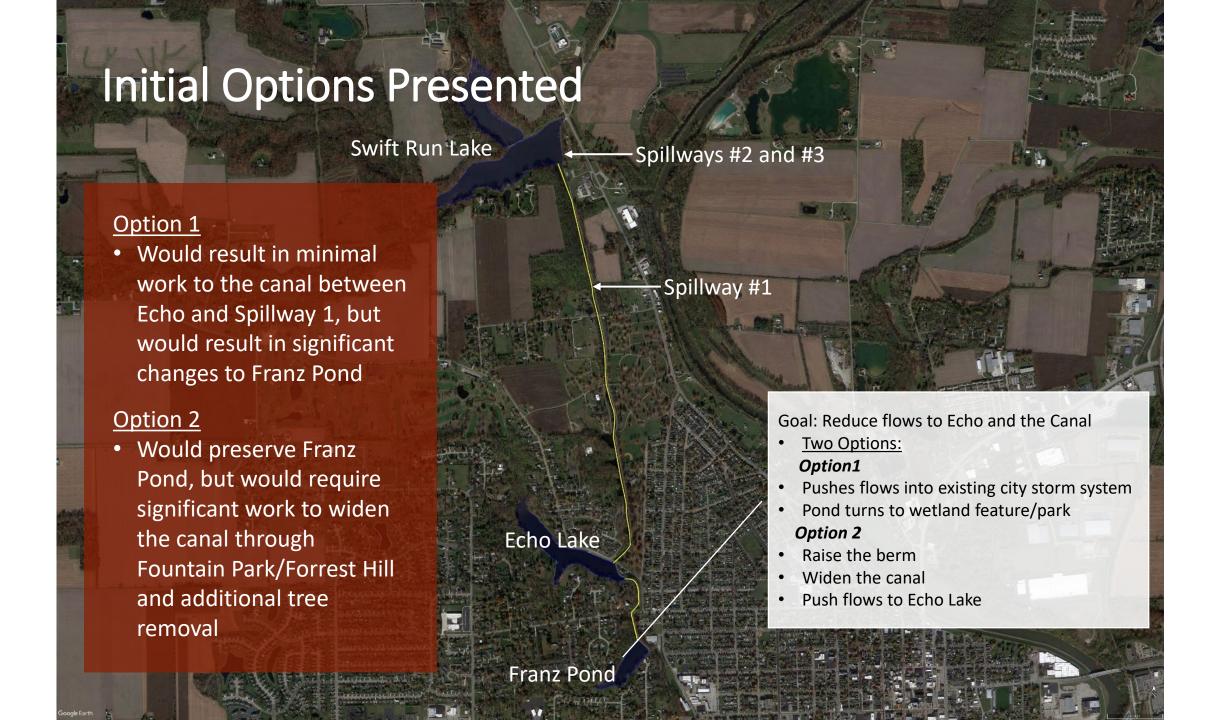
### The plan and options were:

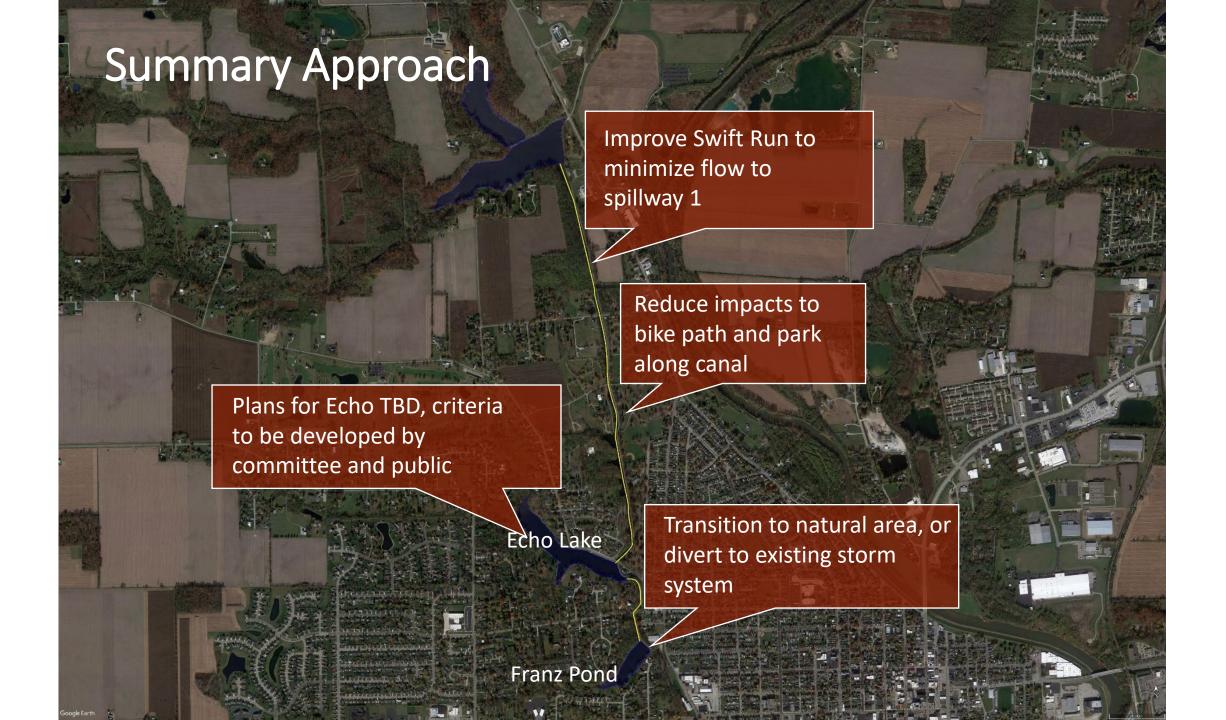
- 1. First start with the preferred alternative for Swift Run
  - Decrease outflow to Spillway 1 to increase capacity for other lakes
- 2. Second, address Franz Pond outflow
  - Outflow flows to Echo Lake, so we need to address this next
- 3. Third, address Echo Lake and the canal system
  - Carefully address the dam and outflow for minimum disturbance













Let's take a step back.



### Alternatives Presented in Dec. 2021

#### **Swift Run**

- Property Easements / Acquisition
- Additional Spillway Capacity
- New Auxiliary/Emergency Spillways
- Overtopping Protection (RCC)
- Re-Classification of Dam

#### **Echo Lake/Franz Pond**

- New Spillway(s) at Dam Location(s)
- New Spillways at Alternate Locations
- New Culvert System
- New Auxiliary/Emergency Spillways
- Raise Dam/Canal Embankments
- Overtopping Protection(Roller Compacted Concrete)
- Short Wall (selected locations or entire)
- Control Inflow (large diversion ditches)
- Property Acquisition
- Upstream Lake Control (interior berm, supplemental dam, etc.)
- Decommission Dam / Lower Pool Levels and/or Fill in portion of Lake

#### **Hydraulic Canal**

- Flatten Canal Downstream Slopes
   / Modify Upstream Slopes
- Conduit Canal System Widening
- Conduit Canal System Deepening
- Crest Wall Installation
- Additional Flow Control (new gates, etc.)
- Overtopping Protection (RCC)
- Property Acquisition

### **Group Work**

- Stantec to **briefly** present each alternative
- Group discussion and recording of ideas
- Dot exercise
  - Green For consideration
  - Yellow Consider with caution
  - Red Eliminate

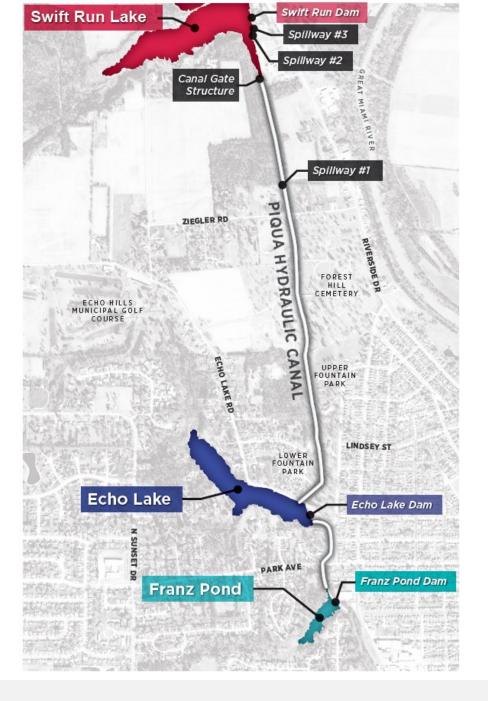
PIQUA HYDRAULIC CANAL AND DAM SAFETY DESIGN PROJECT | JULY 18, 202

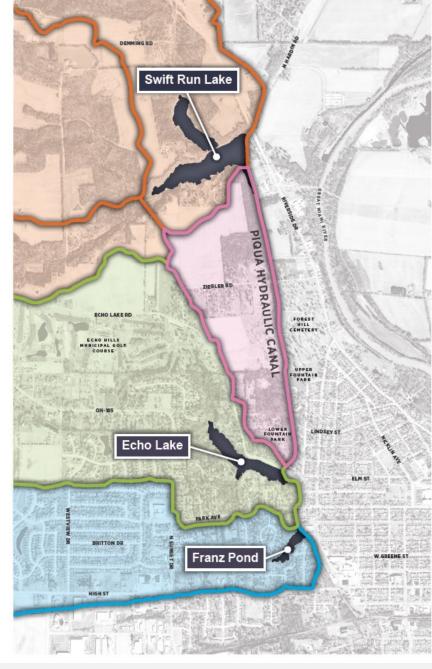
#### Citizen Advisory Committee Meeting #2



ECHO LAKE / FRANZ POND				
SOLUTION	FEASIBILITY	CONSULTANT TEAM OBSERVATIONS	CAC OBSERVATIONS / COMMENTS	
New Spiliway(s) at Dam Location(s)	Not Feasible	Due to downstream hazards.     No flow paths available through city.		
New Spillways at Alternate Locations	High	Evaluating at multiple park locations.		
New Culvert System	Low	Due to significant capacity required.		
New Auxiliary/ Emergency Spiliways	Medium	Still have issue with downstream hazards.     No optimal locations.		
Raise Dam/ Canal Embankments	Medium	Modification of the hydraulic canals is a budget concern due to their lengths and heights.		
Overtopping Protection (Roller Compacted Concrete)	Medium	At selected locations as part of a combination of multiple improvements.     Acceptable with ODNR Dam Safety.     Reduces improvements to downstream flood inundation.		
Short Wall (selected locations or entire)	Medium	Still have concerns with stability of hydraulic canal embankments.		
Control Inflow (large diversion ditches)	Medium	Only solves part of the storage capacity issue.		
Property Acquisition	High	May not be public friendly.     Includes home on Echo Lake Dam,     Fountain Park, other downstream     properties.		

# Reference Maps







### **Focus Group Nominations**



### **Next Steps**



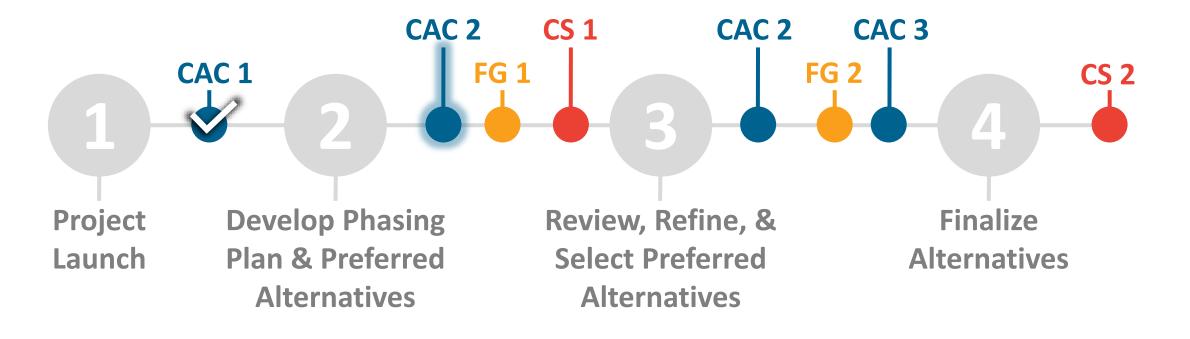
### **Next Steps**

Focus Group Round 1 - August, 2022

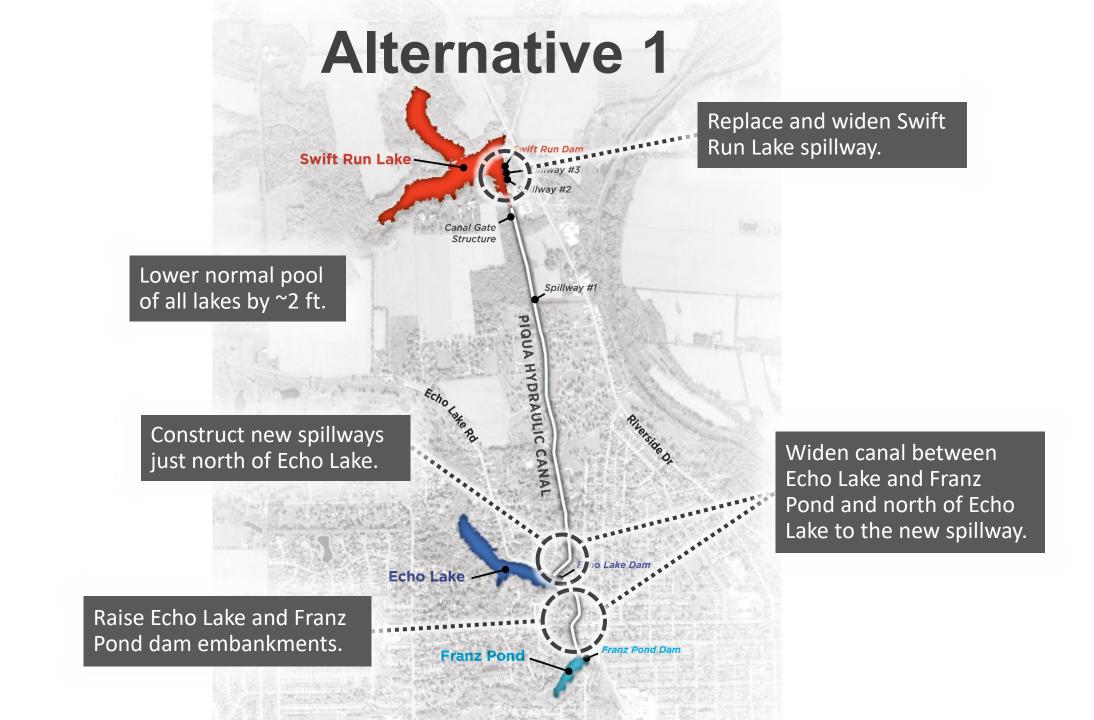
**Community Summit 1 - August, 2022** 

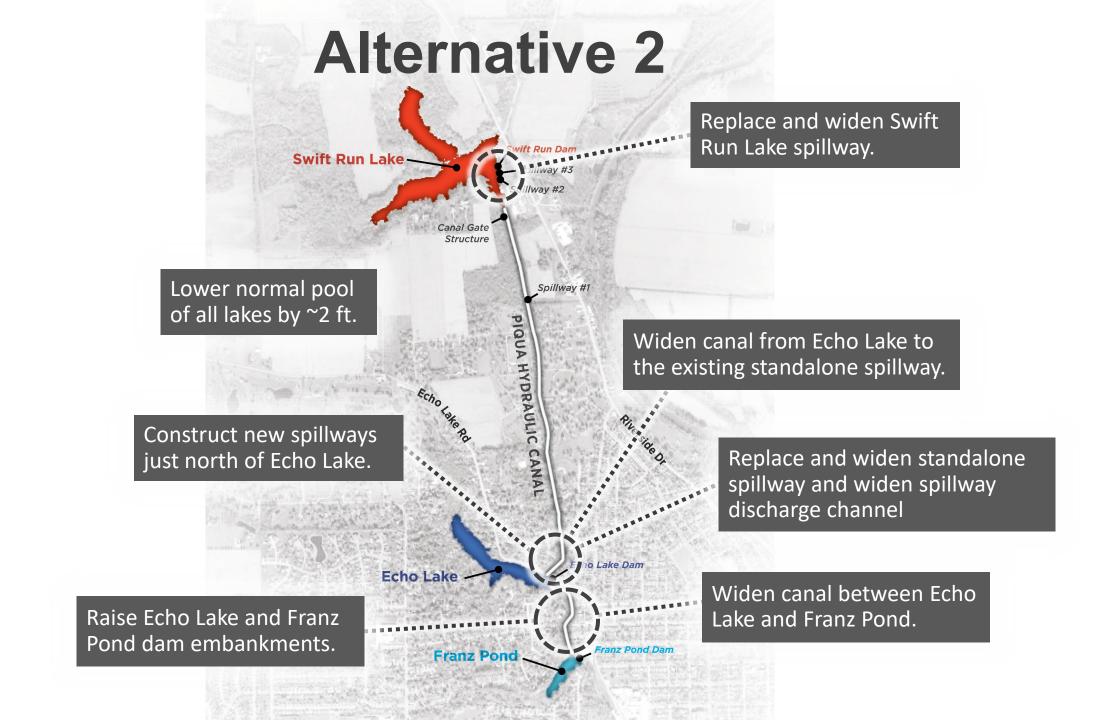
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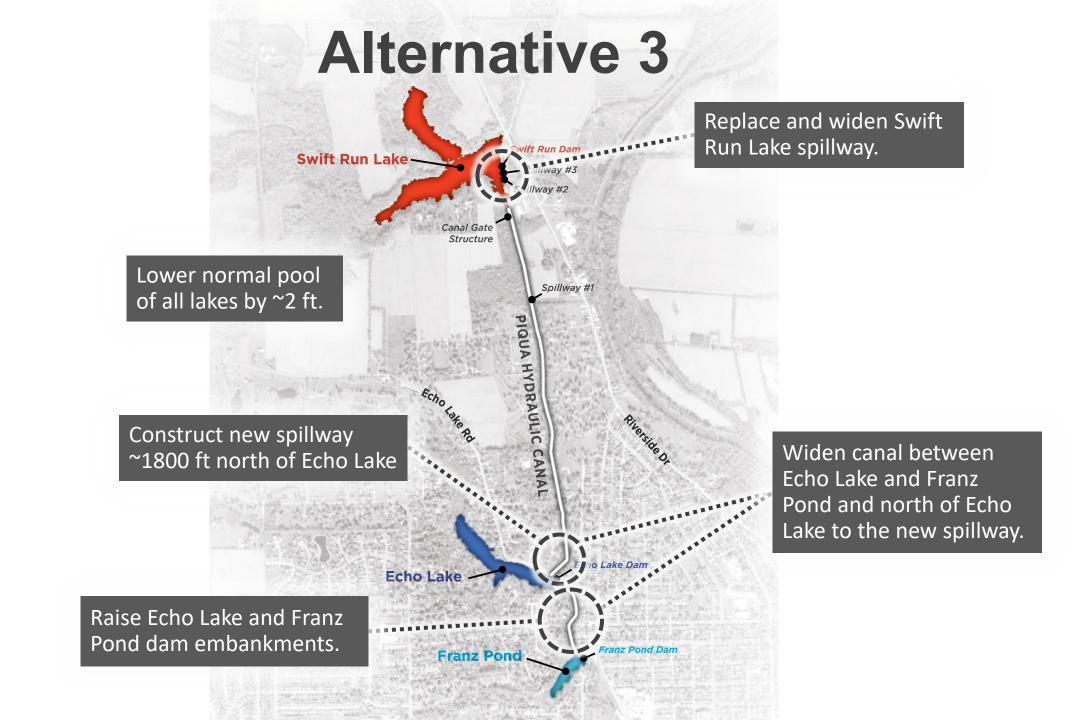
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### **Alternative Costs**

Feature	Potential Improvements	Estimated Construction Costs
Franz Pond Dam	Raise dam and canal improvements (structural). New bridge crossing. Property acquisition.	\$6-12 M
Echo Lake Dam	Raise dam and canal improvements (structural). New bridge crossing. Property acquisition. New spillway constructed in Park.	\$ 15 – 25 M
Swift Run Lake Dam	Construct new spillway (may replace existing). Property acquisition.	\$4-8 M