

**IOWA**

# Lake Fisher Park: Recreational and Environmental Rehabilitation

**Final Proposal**

December 15, 2025



# Project Team

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**Carson Merten**



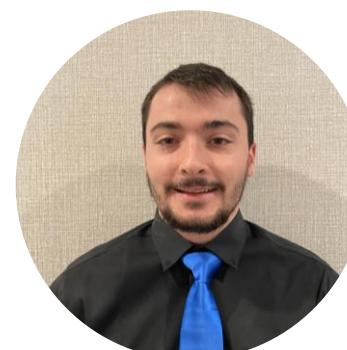
**Luke Althaus**



**Fernando Carrillo**



**John Crane**



**Thomas Holzapfel**



**Idris Kecira**



**Elise McKee**



**Dylan Seiffert**



**Kristin Stein**



**David Verastegui**

# Overview

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**Project Goals**

**Design Elements**

**Cost Estimate &  
Phasing**

# Project Goals

## Develop Recreational Infrastructure



## Preserve Environmental Integrity



# Design Elements - Civil Engineering

- Recreational Areas
  - Basketball Court, Tennis/Pickleball Courts
  - Dog Park
  - Green Playground
  - Softball Field Replacement
- RV Campground
  - Expansion, Realigned
- Beaches and Waterfront Access
  - Sand Volleyball, Swimming
  - Boat Ramps/Docks, Kayak Launches
- Parking
  - Accessible Parking Near All Site Features
- Trail System
  - ADA-Accessible Shared Use Path
  - Designated Biking Paths
  - Workout Areas
- Site Survey
  - LiDAR Drone Scan
  - Seiler Geospatial



# Site Survey

**SEILER**  
GEOSPATIAL



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Lake Fisher Recreation Area

# Site Survey

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GEOSPATIAL



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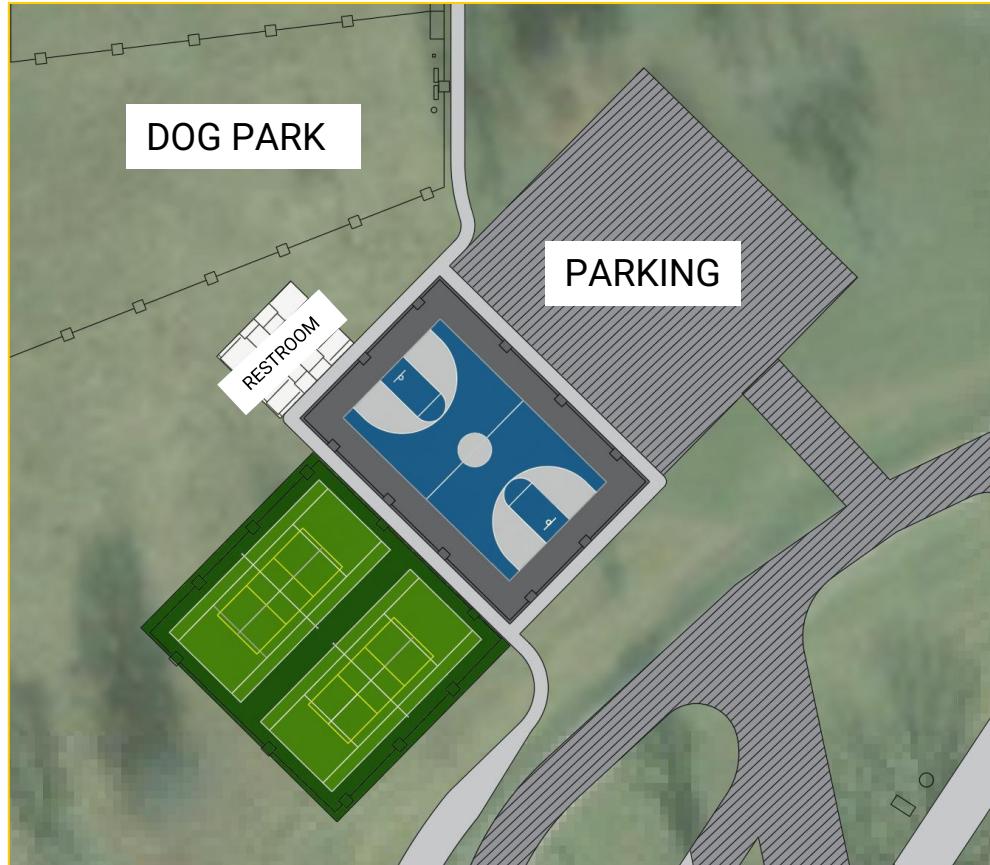
# Softball Field Replacement



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Lake Fisher Recreation Area

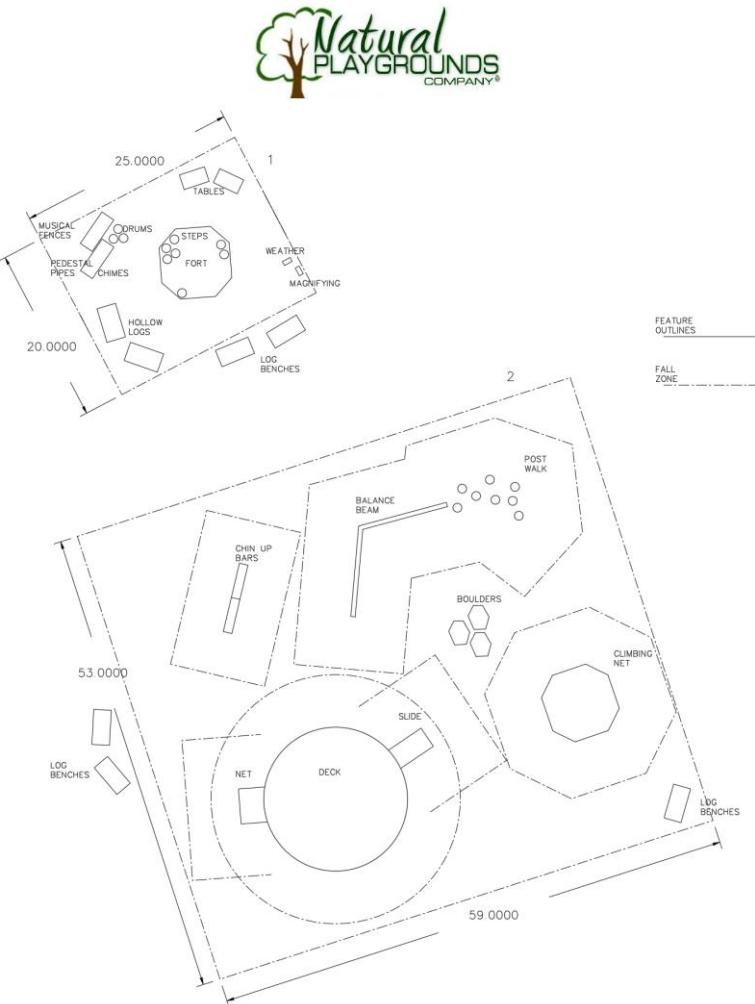
# Proposed Recreation Area



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# Green Playground



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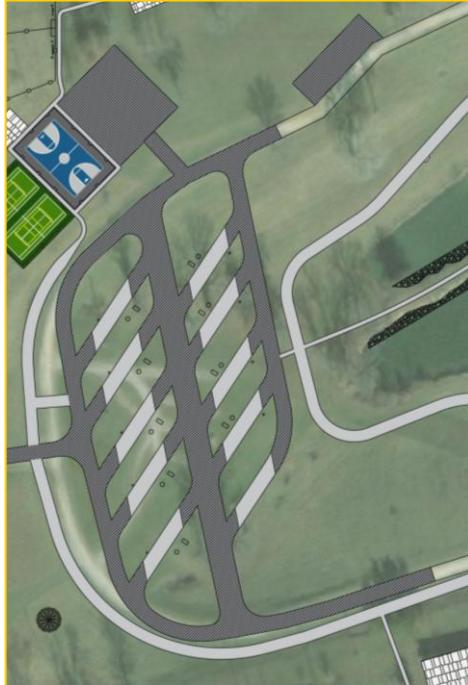
Lake Fisher Recreation Area

# RV Campground

## RV Hookups – Electrical & Water



## Expansion & Realignment of Existing Site



## Pull-Through Parking



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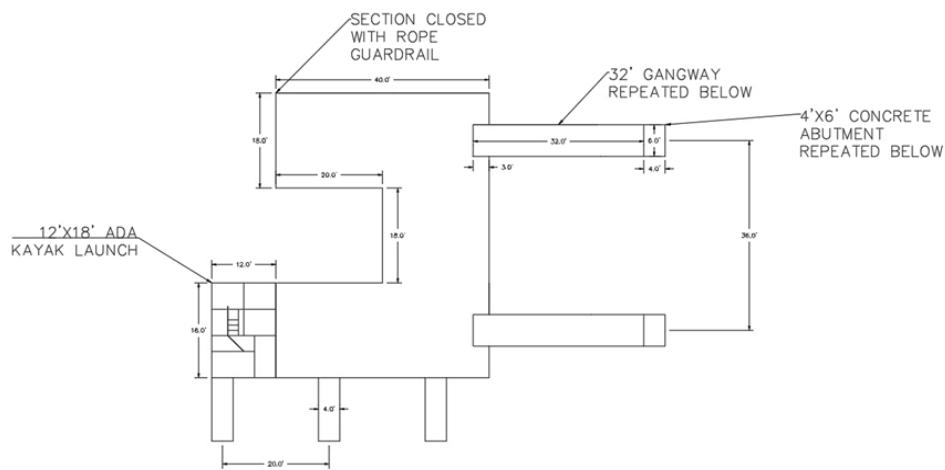
# Beaches



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Lake Fisher Recreation Area

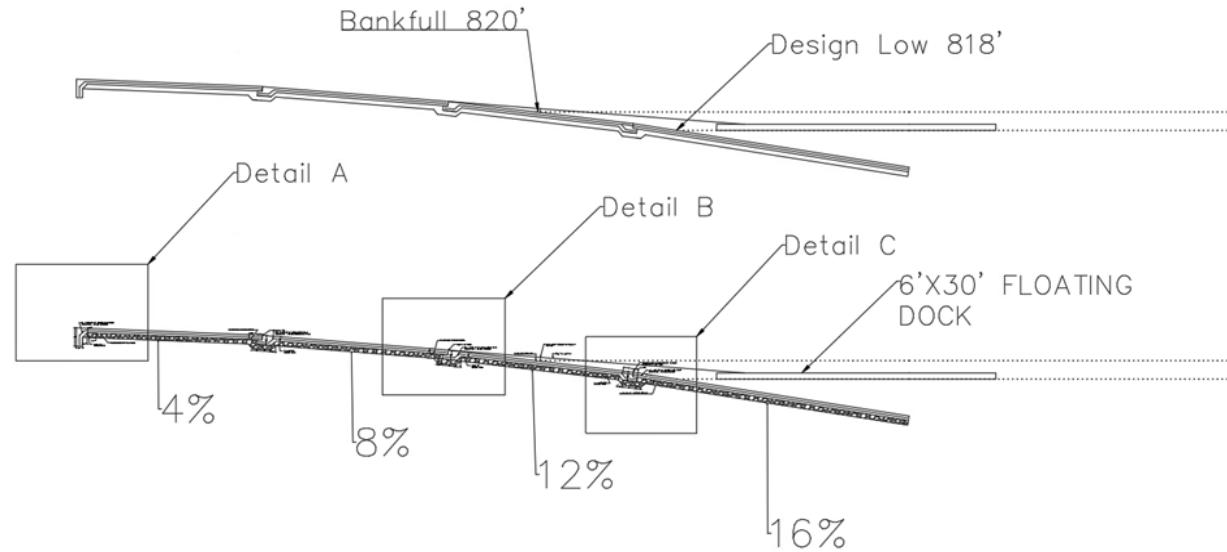
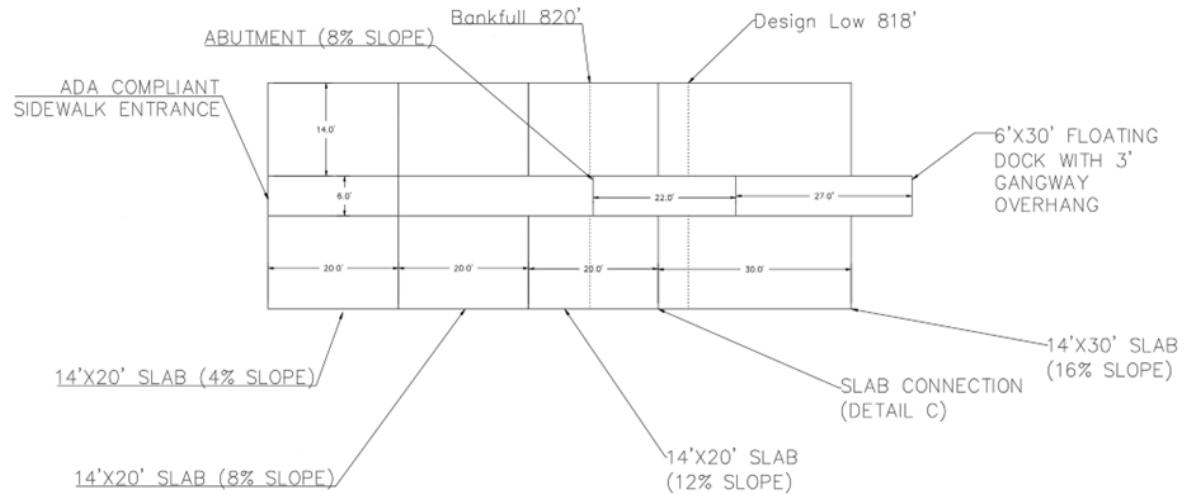
# Docks



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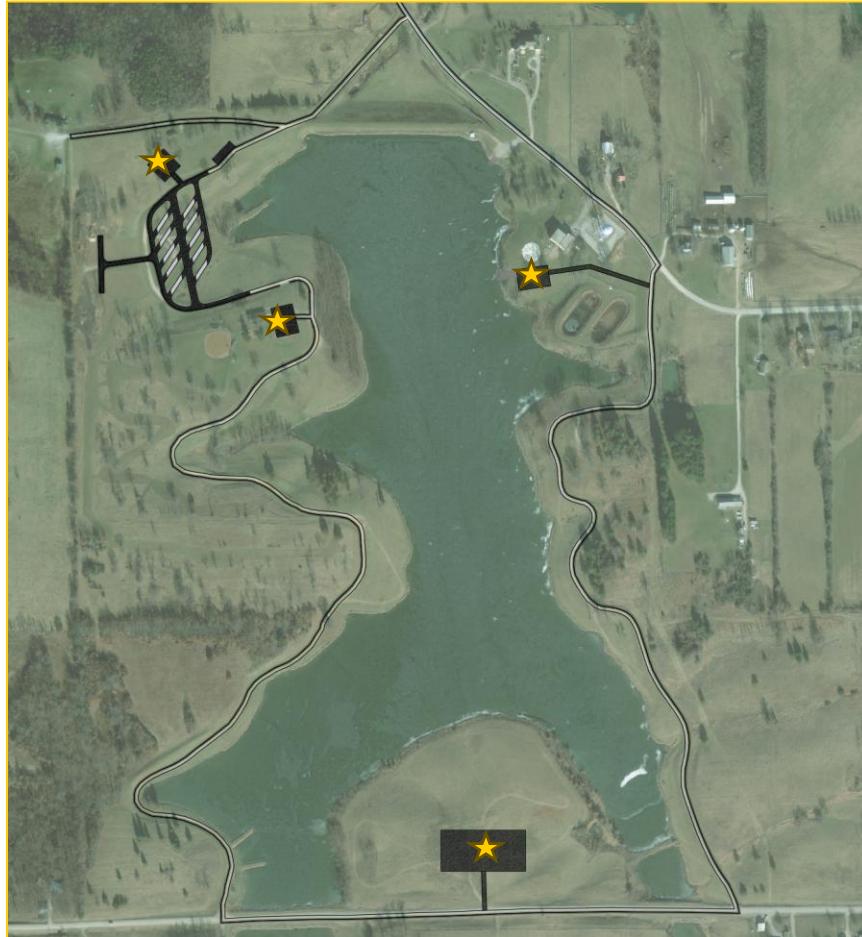
# Boat Ramp



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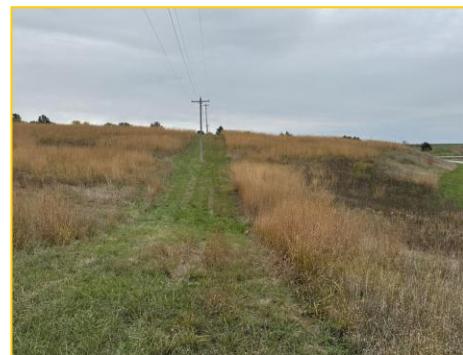
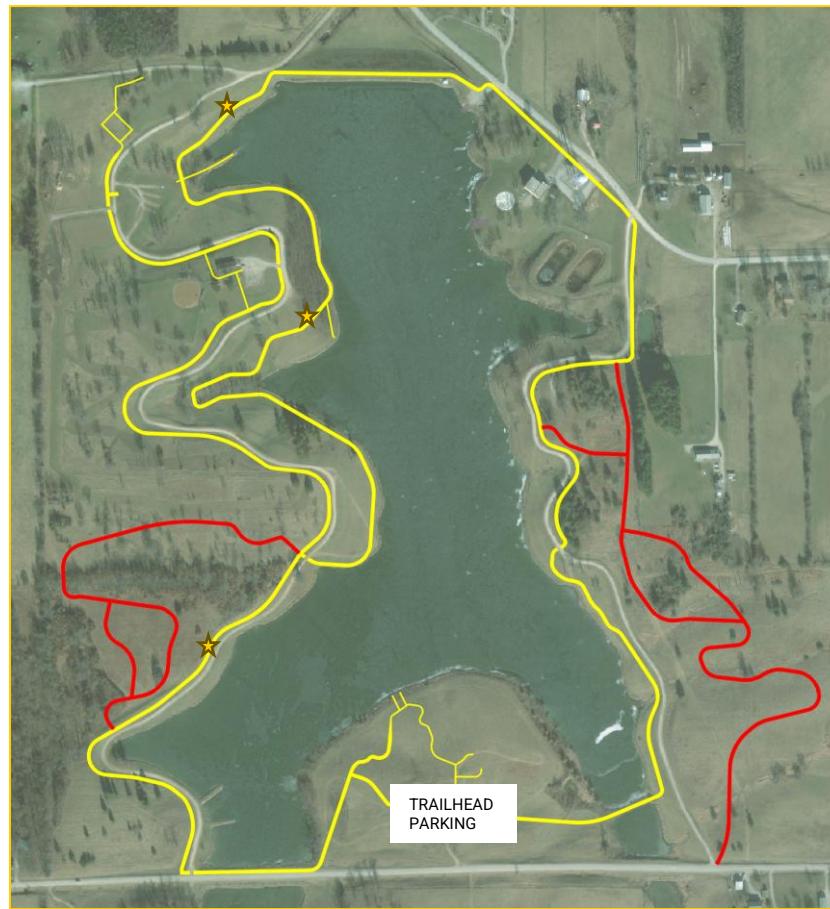
# Parking



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# Trail System



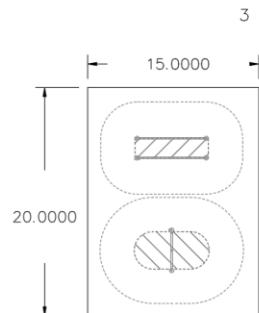
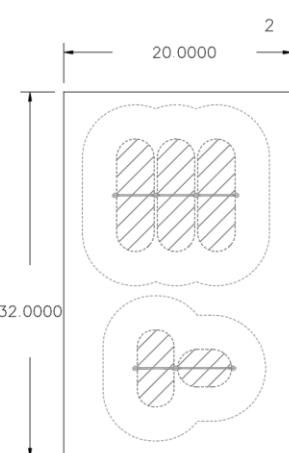
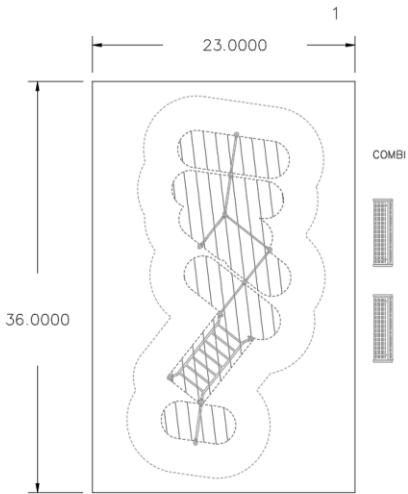
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# Workout Areas

**CROUCH**  
RECREATION

**KOMPAN**



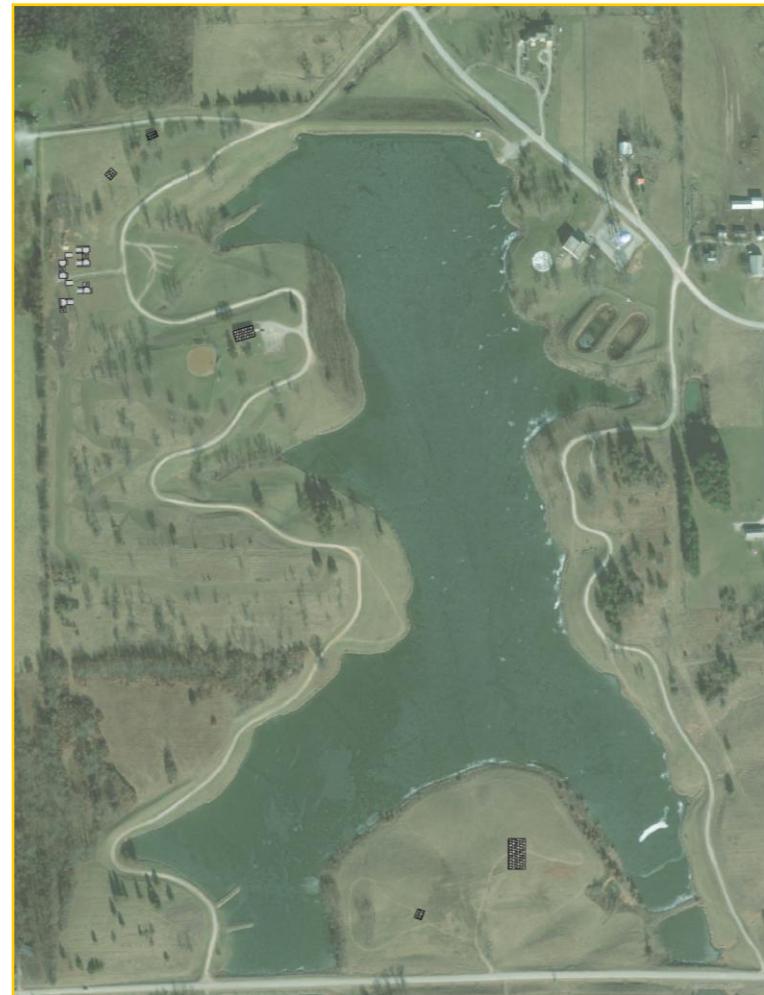
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Lake Fisher Recreation Area

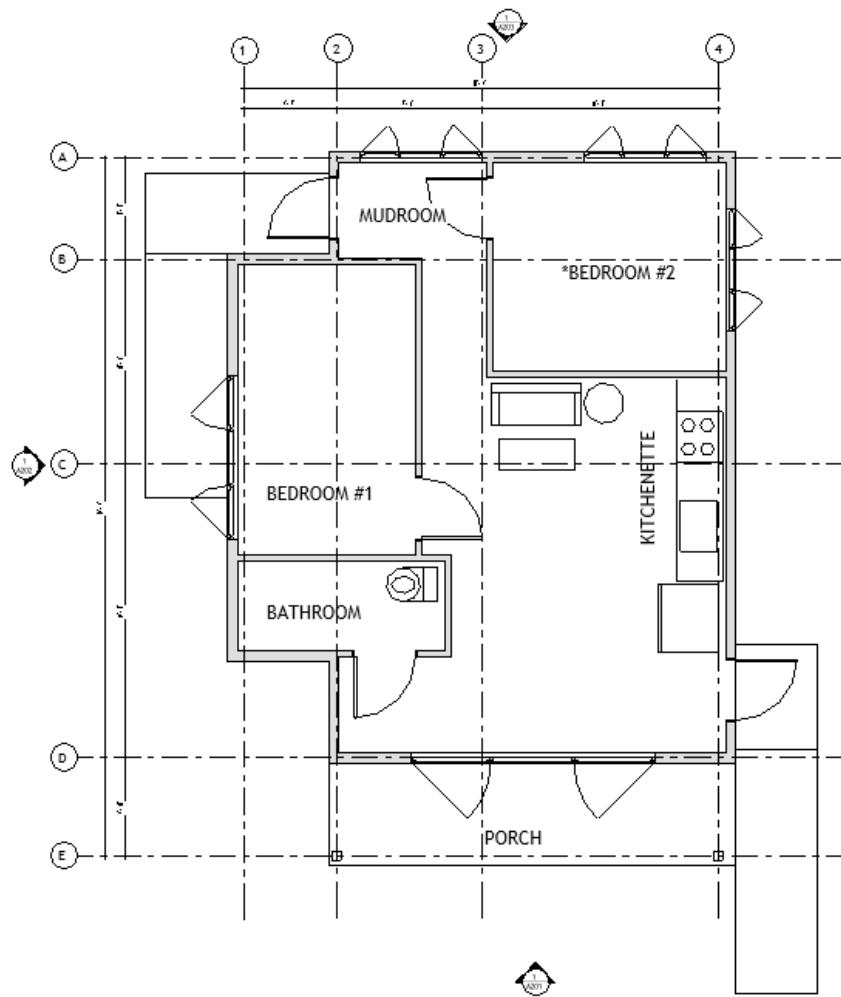
# Design Elements -Structural Engineering

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- Cabins
- Pavilion
  - Events
  - Large Gatherings
- Park Bathrooms
  - Pavilion
  - Recreational Area & RV Campground
  - Softball Field & Existing Shelter



# Cabins

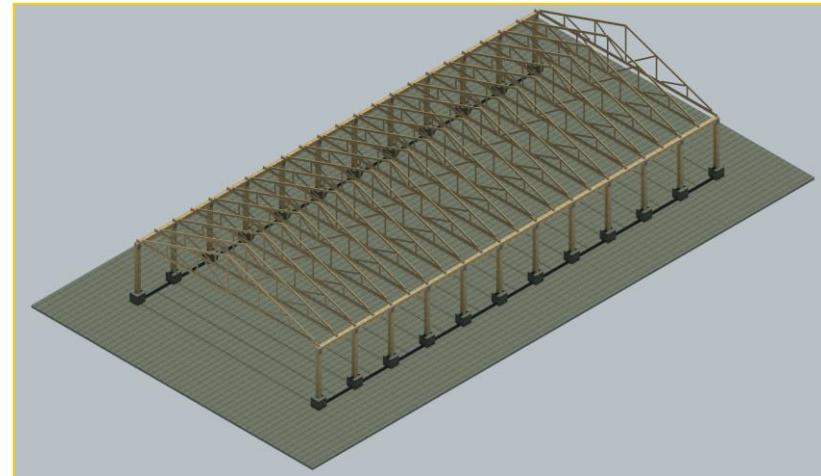
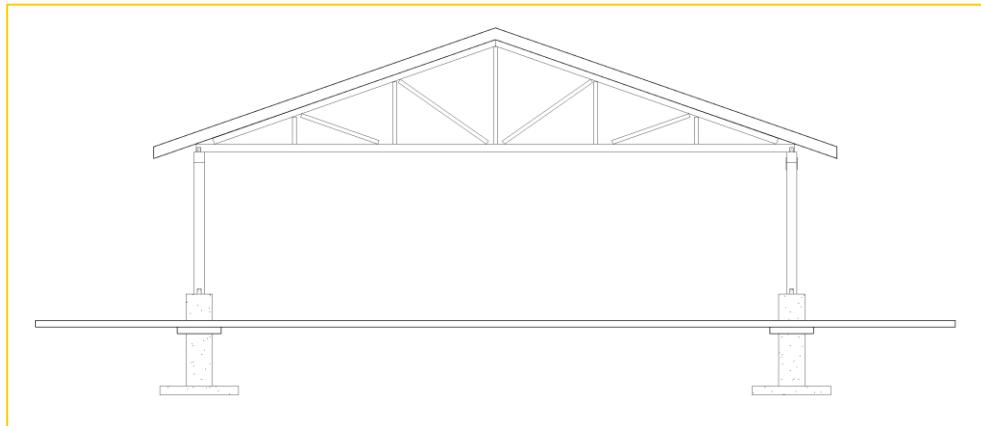


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# Venue

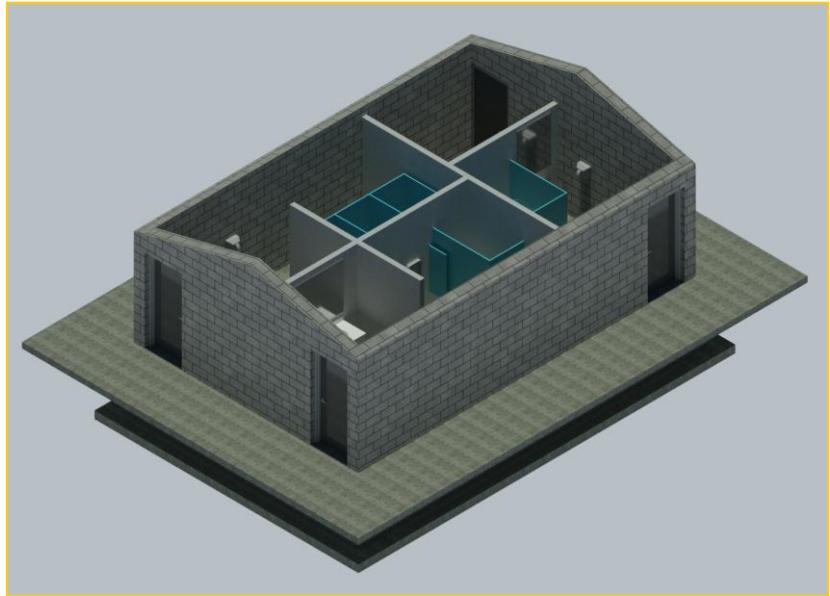
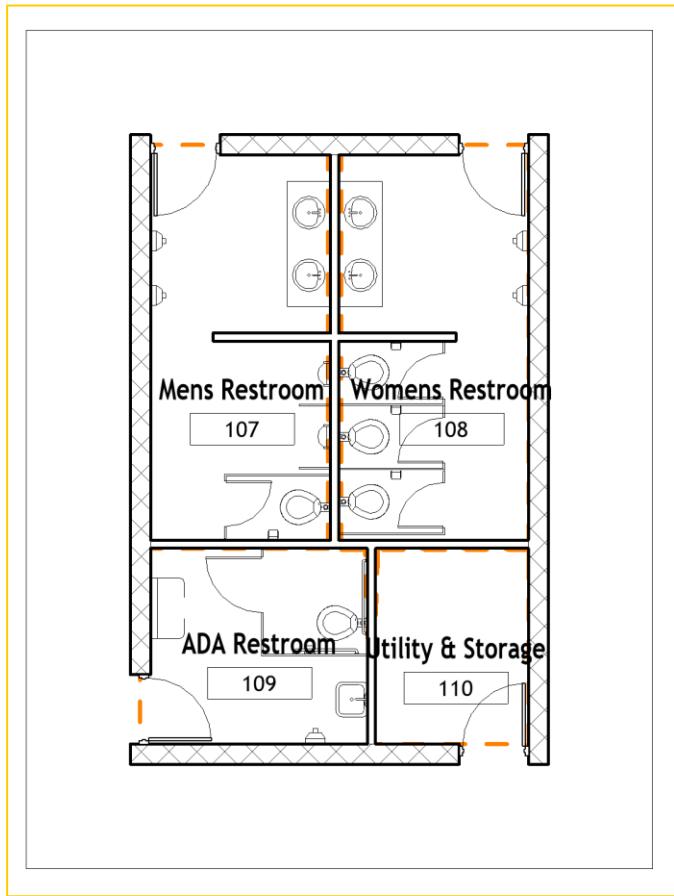
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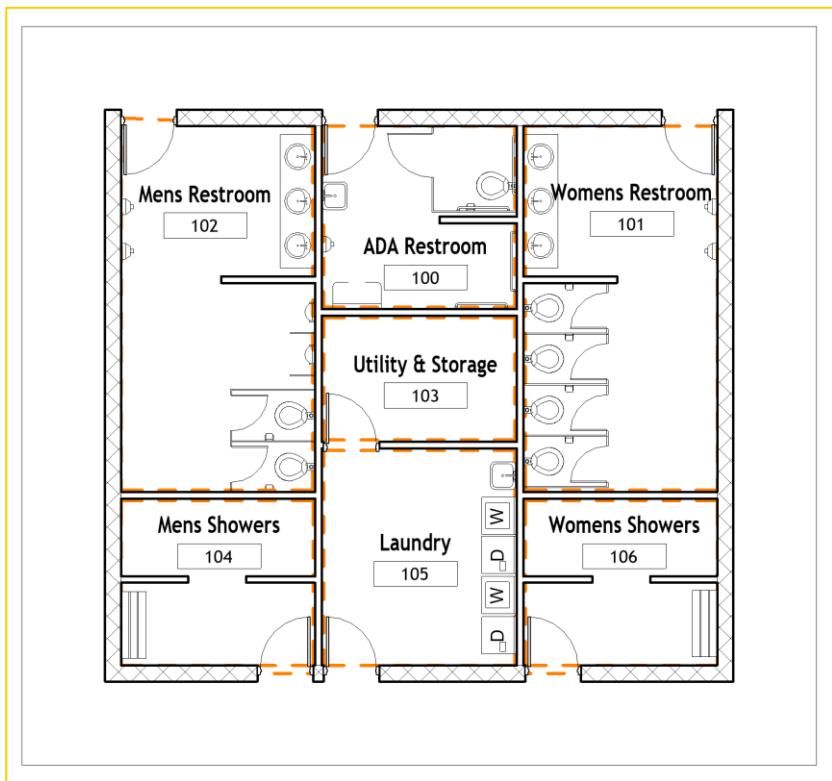
# Trail Head Bathroom



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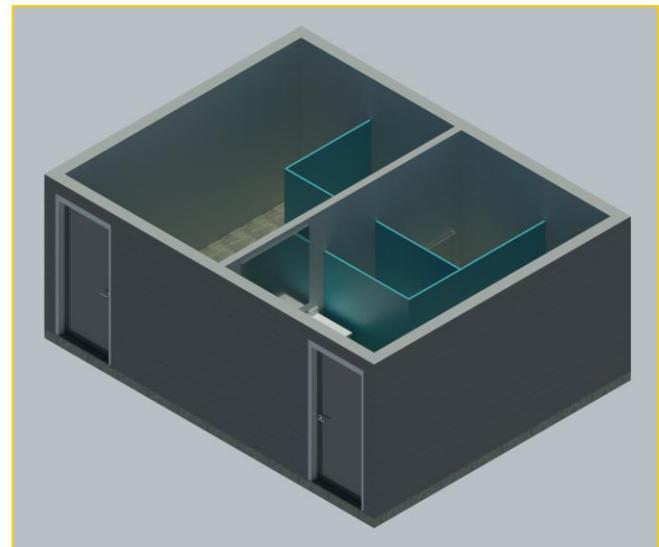
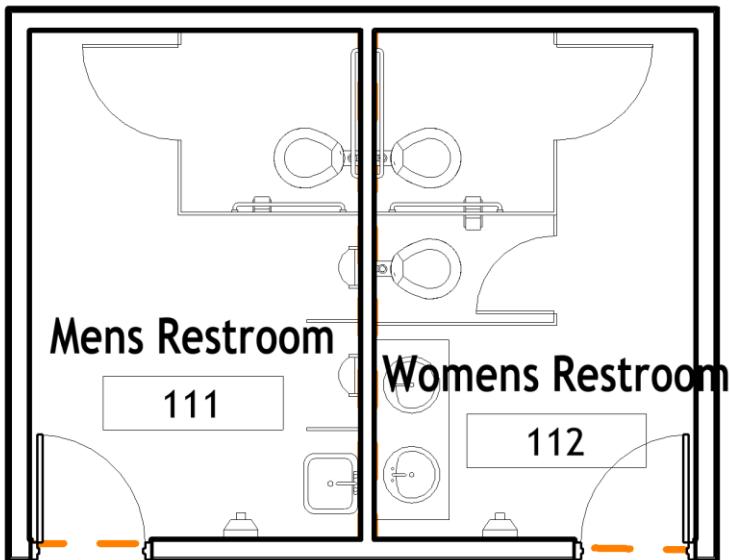
# Recreation Area Bathroom



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# Softball Field Bathroom



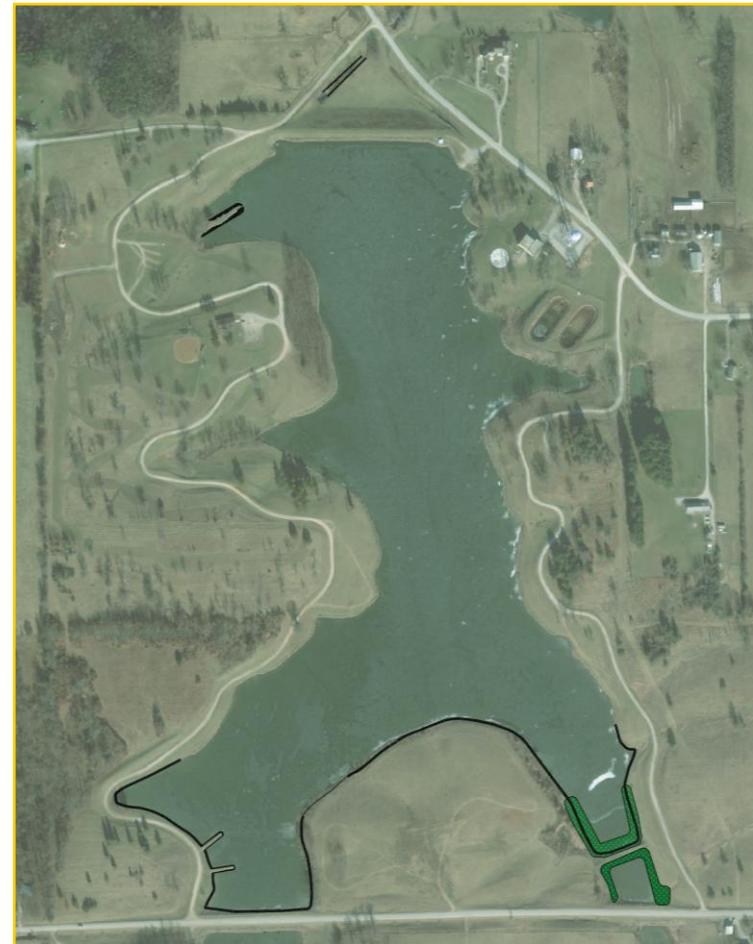
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Lake Fisher Recreation Area

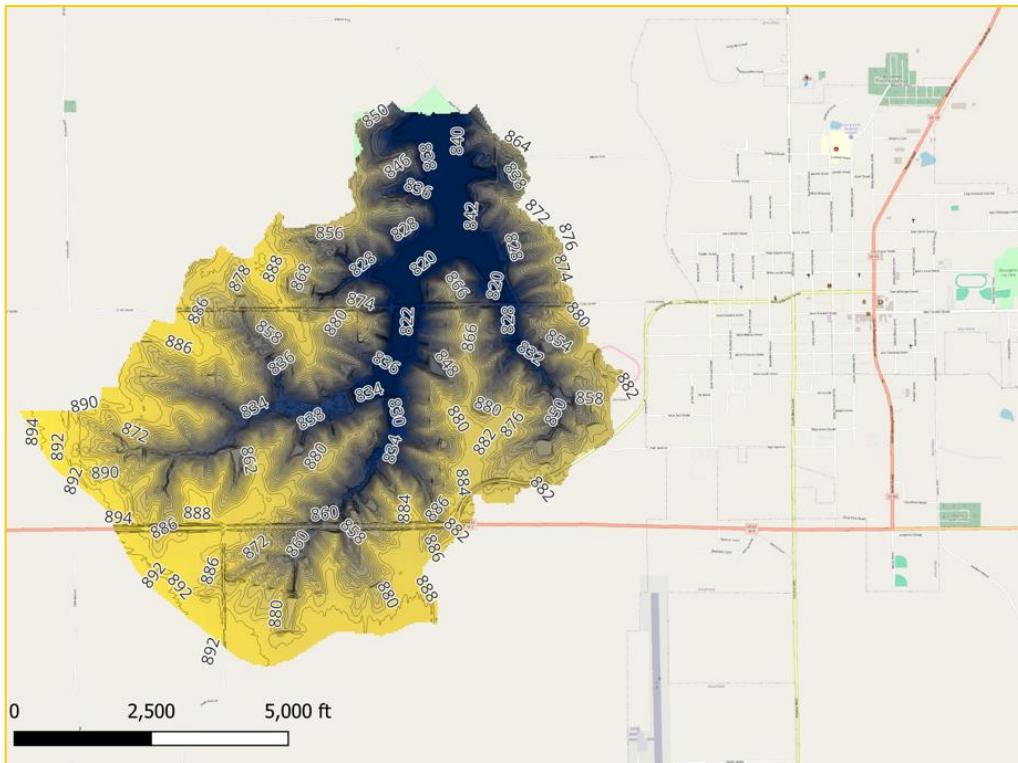
# Design Elements - Environmental Engineering

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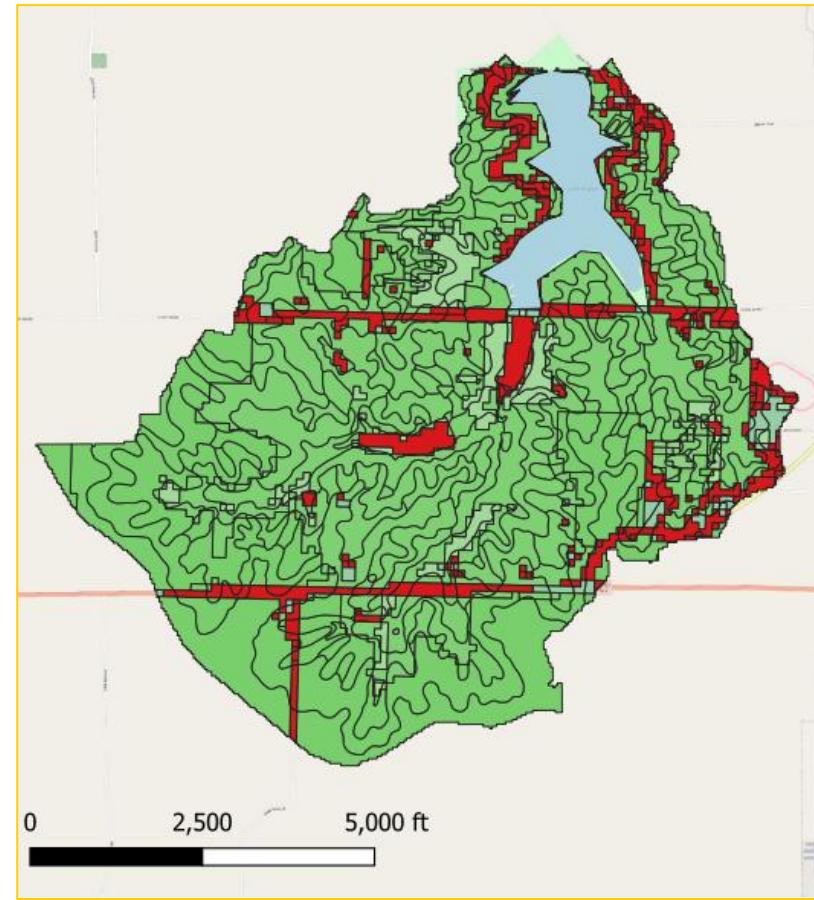
- Stormwater Analysis
- Erosion Control
  - Protective Rip-Rap
- Water Quality Analysis
  - Wetlands
- Septic Tank Design
  - Cabins, RV Campground, Restrooms



# Stormwater



1422 acres  
2.22 square miles



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# Stormwater

100-year storm: 1% chance per year  
7.77 inches of rain

Water elevation: 824.5 ft: 4.5 ft above lake bank

Main concerns:  
SW Roadways



# Erosion Control



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# Erosion Control

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# Erosion Control



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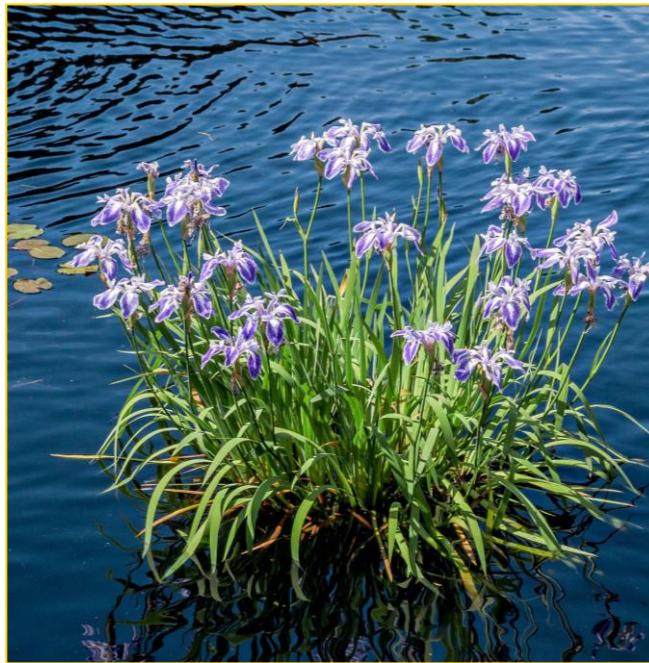
Lake Fisher Recreation Area

# Water Quality Analysis

Units	MPNs	mg/L N	mg/L	ng/L	ng/L	ng/L
Source	Total E. Coli	TN	TP	PFAS	Metolachlor	Imidacloprid
Limits/ Typical Conc.	235	1	0.05	10 (Typical)	700 (Typical)	25 (Typical)
<b>N Outlet</b>	9.8	0.368	.010	14.18	ND	3.37
<b>W Center</b>	3.1	0.461	.012	14.43	570.48	3.78
<b>SW Inlet</b>	8.6	0.501	0.011	13.82	34.23	3.52
<b>SE Inlet</b>	33.1	0.585	0.009	17.41	ND	73.86
<b>N of Berm</b>	20.4	0.399	<0.0079	13.99	465.05	3.93



# Wetlands

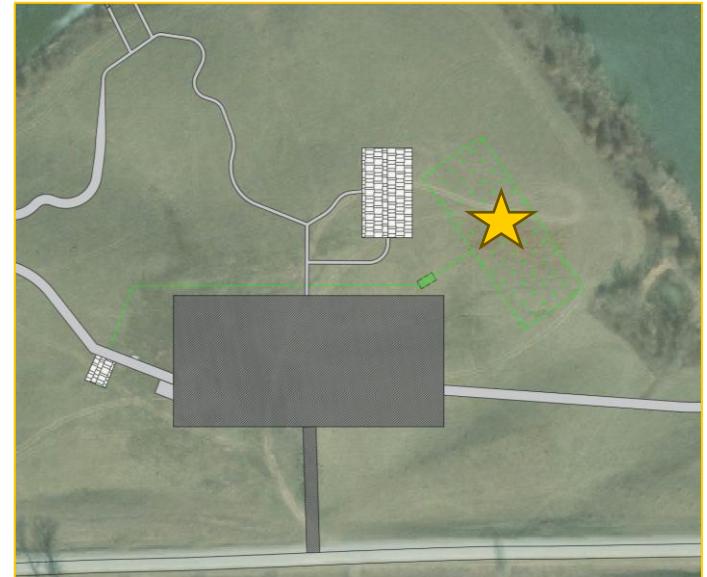


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# Septic Tank Design

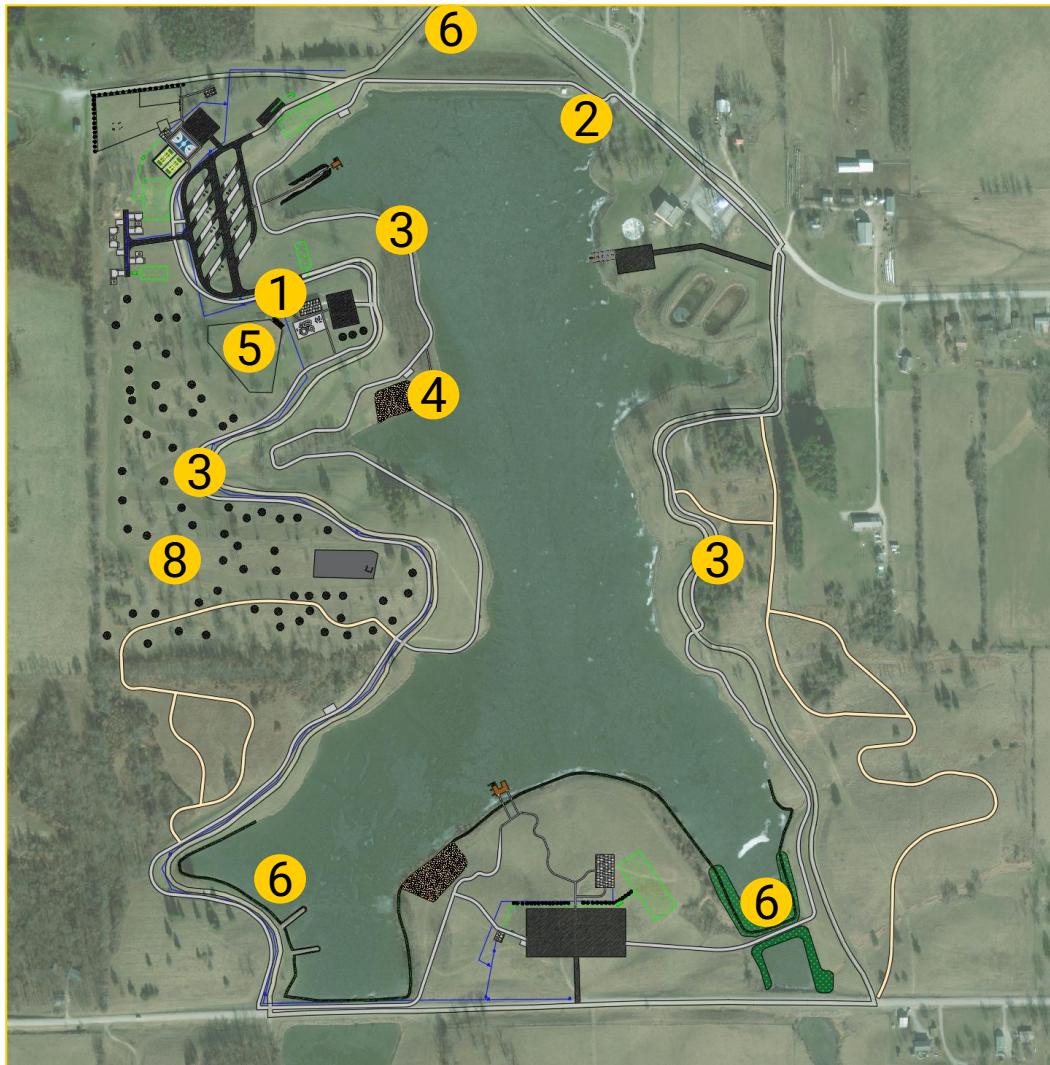
- Five septic tanks total
- Cabins
- RVs
- South Restrooms
- NW Restrooms
- NW Restrooms, Shower, Laundry



Cost: ~\$2,114,721.00

# Phase 1

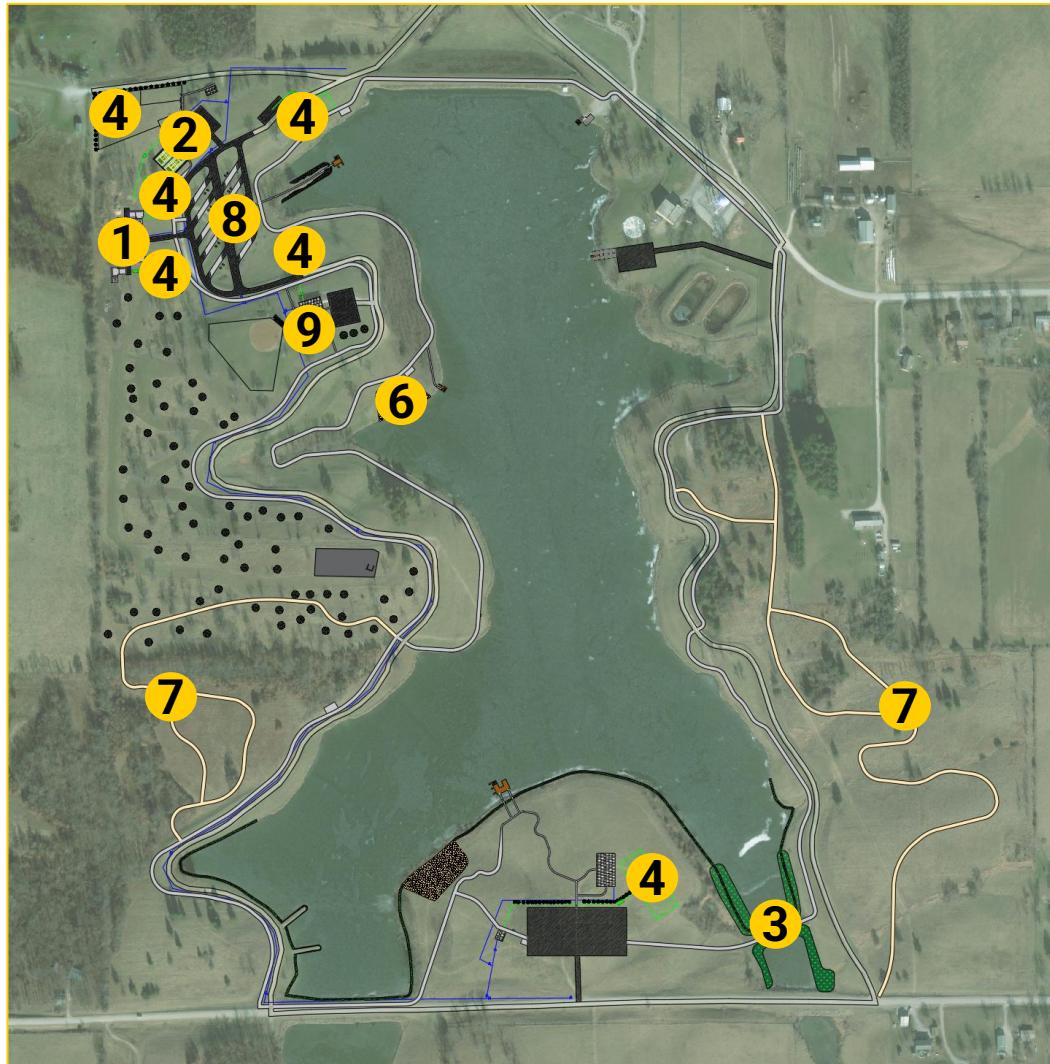
1. Restroom & Septic for West Pavilion
2. Existing Boat Ramp Enhancements
3. Walking Trails
4. West Dock
5. Softball Bleachers
6. Trees & Erosion Control
7. Utilities
8. Frisbee Golf Upgrades



Cost:~\$2,754,731.00

# Phase 2

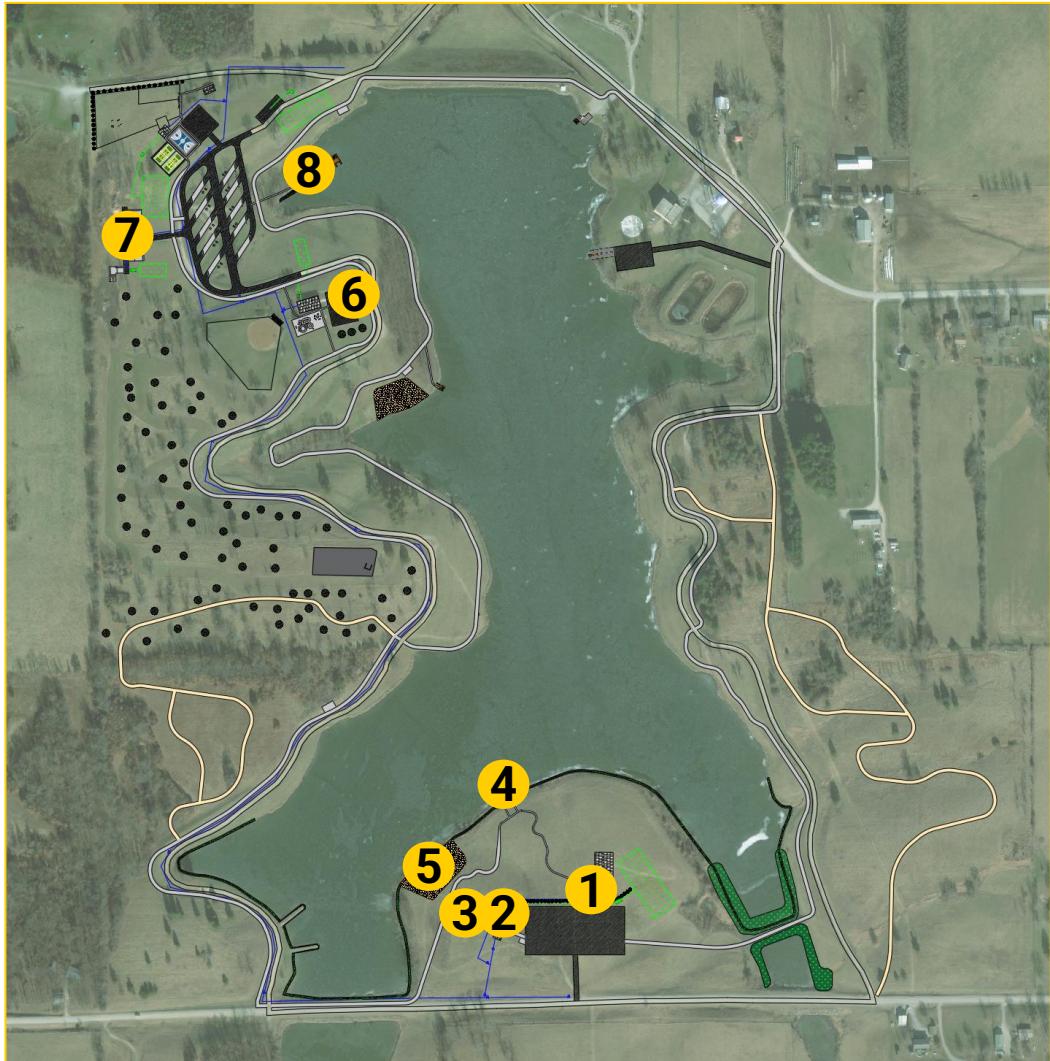
- 1. Two Cabins
- 2. Recreation Area with Parking
- 3. Implement Wetlands
- 4. Natives on Septic Fields
- 5. Dog Park
- 6. First Beach
- 7. Biking trails
- 8. RV Park, Dump Station, Restroom, and Septic
- 9. Green Playgrounds



# Phase 3

Cost:~\$1,989,246.00

1. Venue & Parking
2. South Restroom and Septic
3. Trail Head
4. South Dock
5. Second Beach
6. Existing Pavillion Parking Improvements
7. Two Additional Cabins
8. Northwest Dock

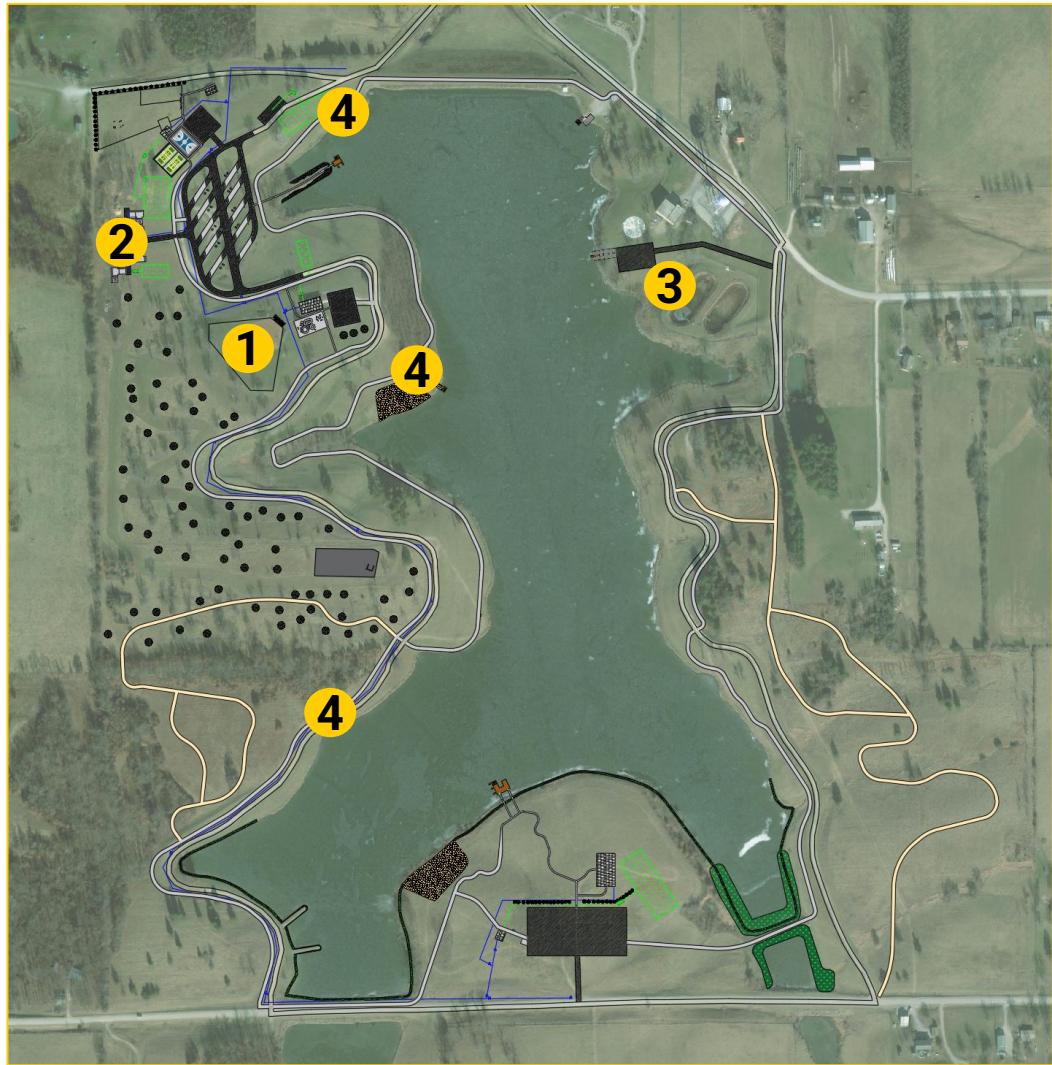


Cost:~\$1,305,962.00

# Phase 4

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1. Softball field Improvements
2. Final Two Cabins
3. Permanent East Boat Ramp
4. Workout Areas



# Cost Estimation

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Phase	Cost
1	\$ 2,114,721.00
2	\$ 2,754,731.00
3	\$ 1,989,246.00
4	\$ 1,305,962.00
Total	\$ 8,164,660.00

LAKE FISHER  
PARK

SPD LIMIT  
25MPH

CLOSED  
10:30PM

PUBLIC • ACCESS

LAKE FISHER CLOSED  
10:00 P.M. TO 5:00 A.M.  
NO SWIMMING

DEPT. OF NATURAL RESOURCES

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