

**IOWA**

# Lake Fisher Park: Recreational and Environmental Rehabilitation

**Final Proposal**

December 15, 2025



# Project Team

---



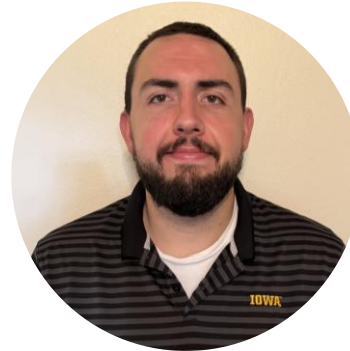
**Carson Merten**



**Luke Althaus**



**Fernando Carrillo**



**John Crane**



**Thomas Holzapfel**



**Idris Kecira**



**Elise McKee**



**Dylan Seiffert**



**Kristin Stein**



**David Verastegui**

# Overview

---



**Project Goals**



**Design Elements**



**Cost Estimate &  
Phasing**



# Project Goals

## Develop Recreational Infrastructure

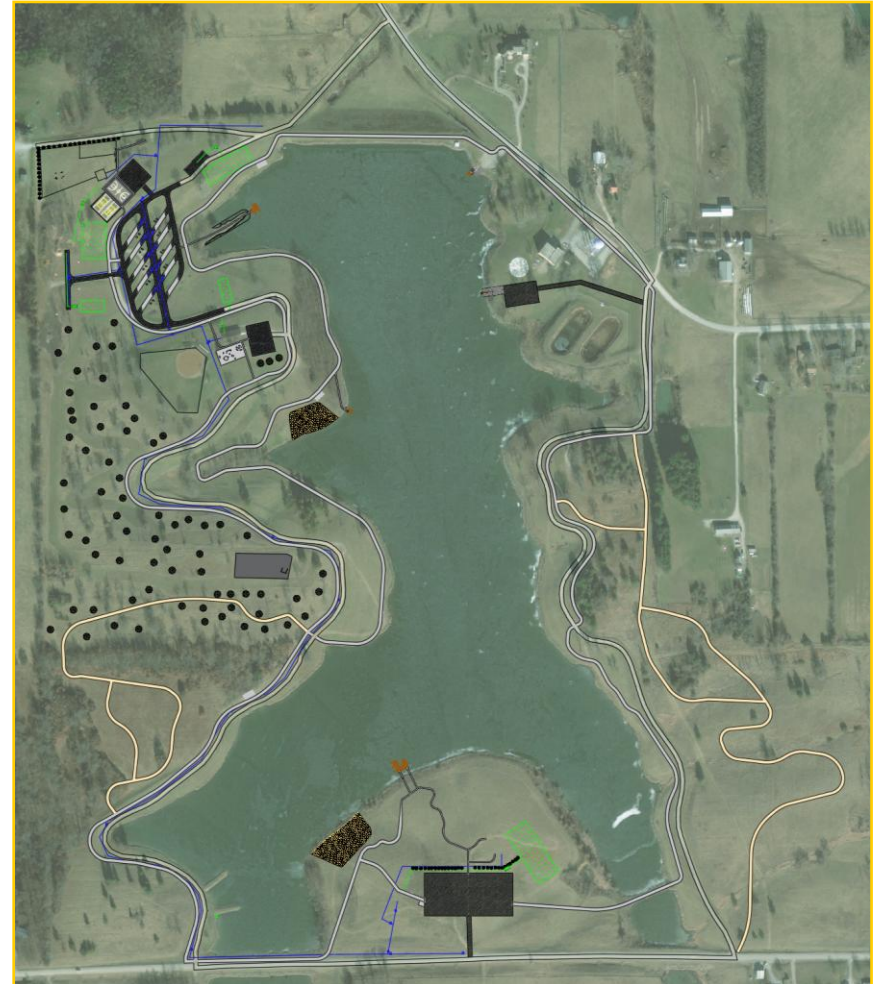


## Preserve Environmental Integrity



# 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



**IOWA**

Lake Fisher Recreation Area

# Site Survey



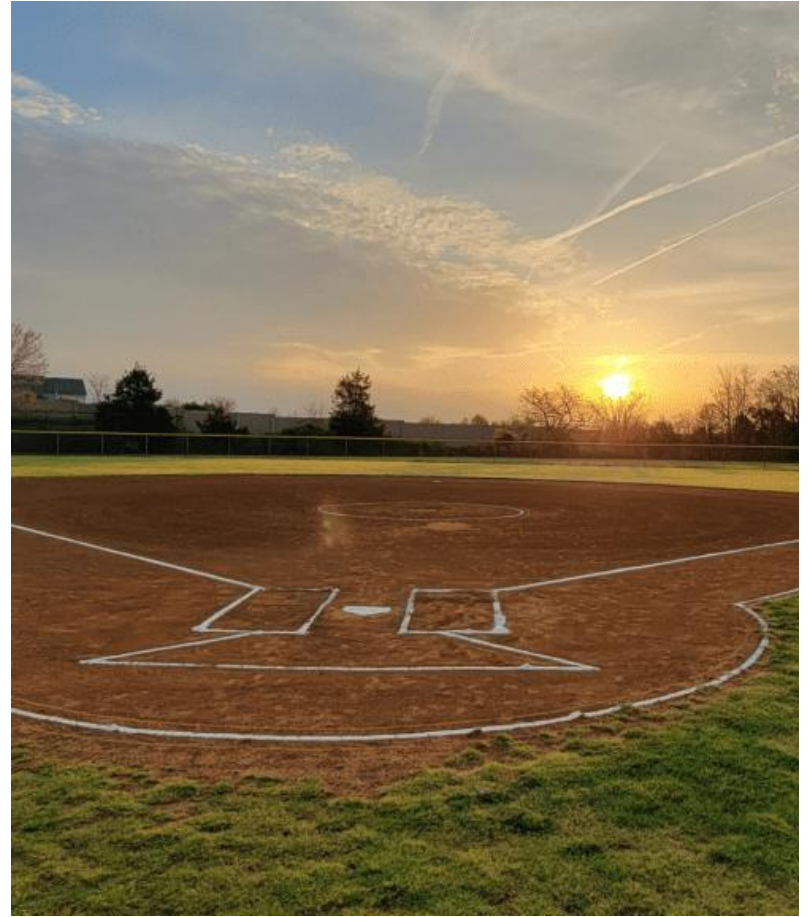
**SEILER**  
GEOSPATIAL

**IOWA**

Lake Fisher Recreation Area

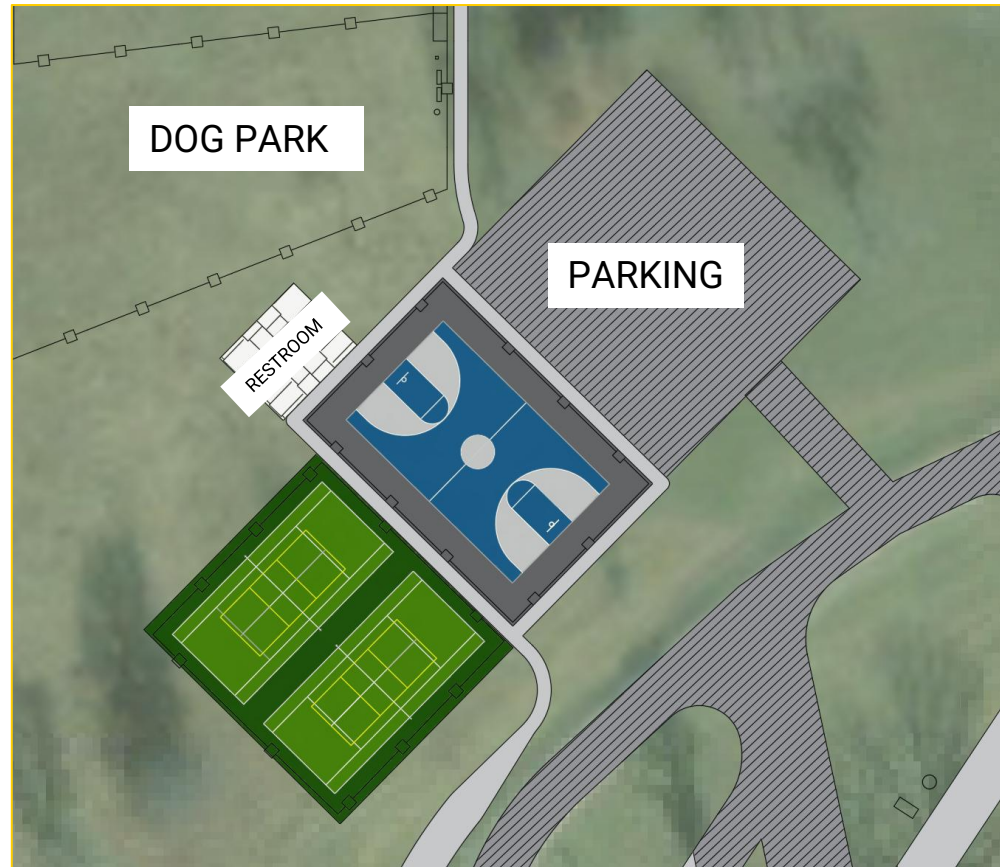


# Softball Field Replacement

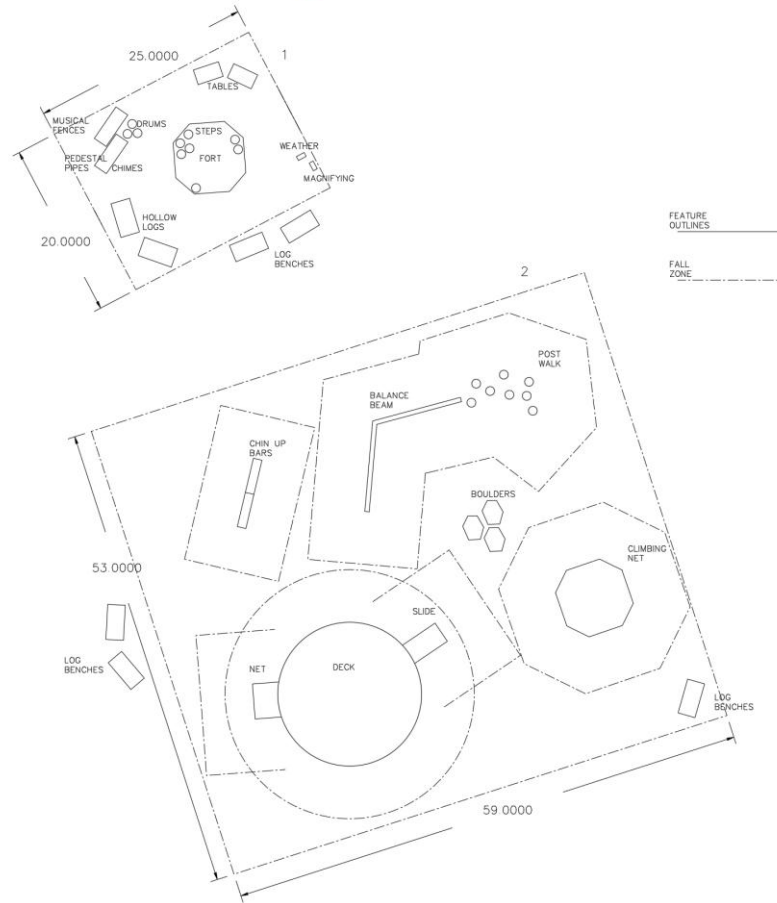




# Proposed Recreation Area



# Green Playground





# RV Campground

## RV Hookups – Electrical & Water



## Expansion & Realignment of Existing Site

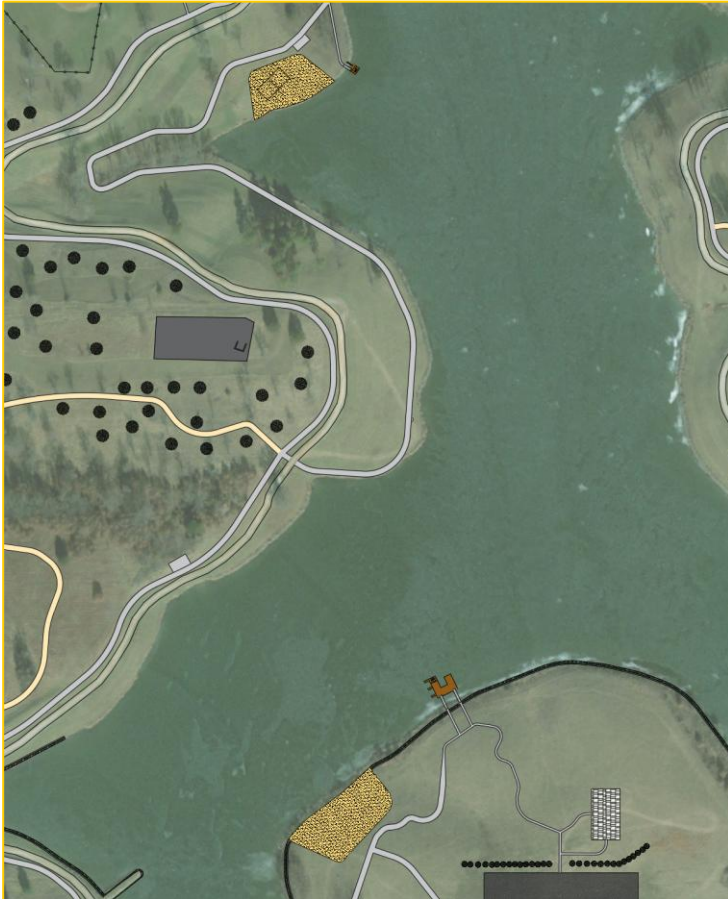


## Pull-Through Parking

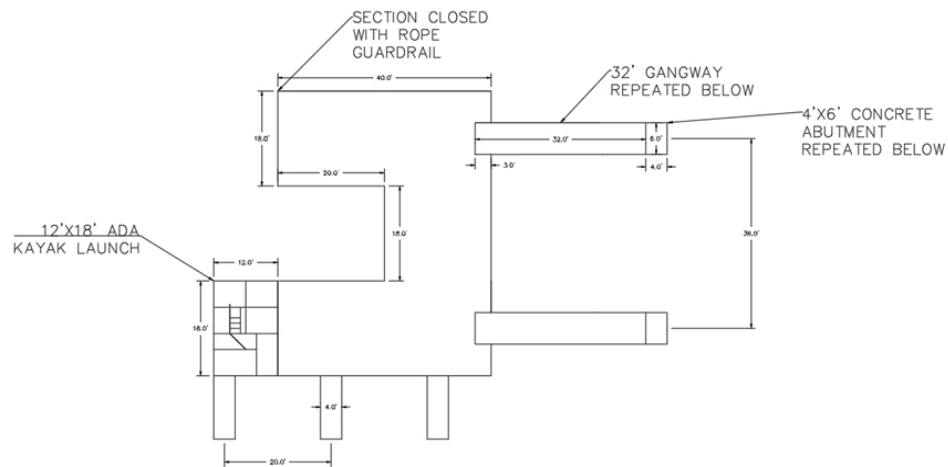




# Beaches

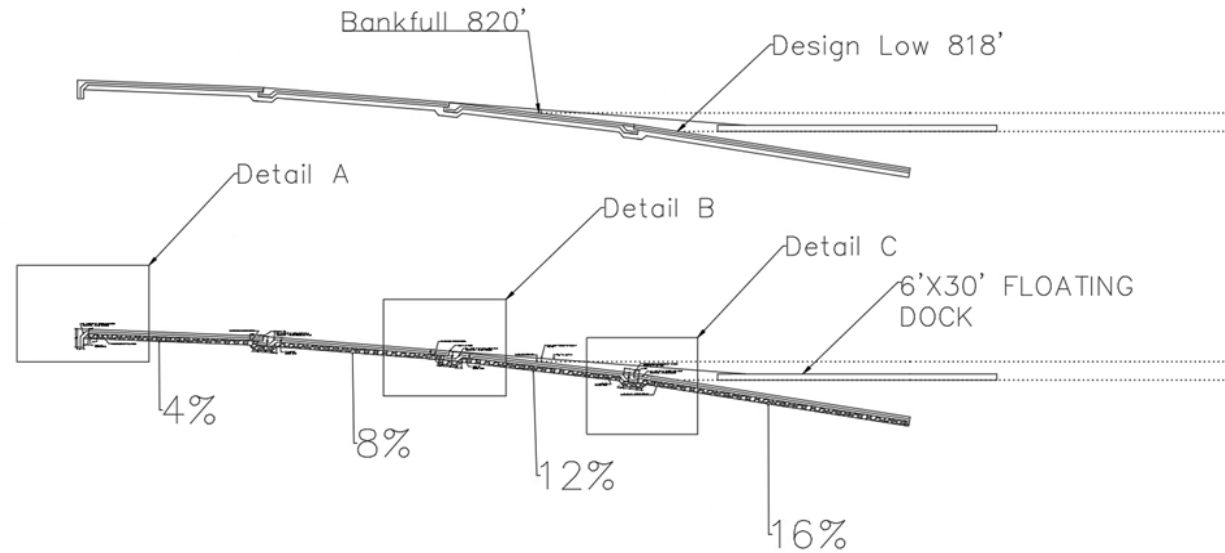
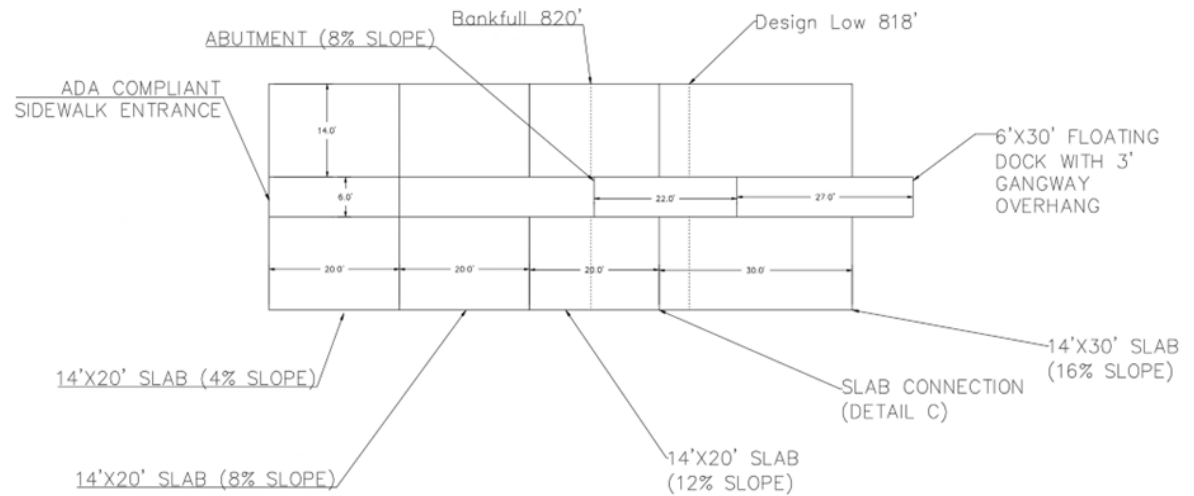


# Docks



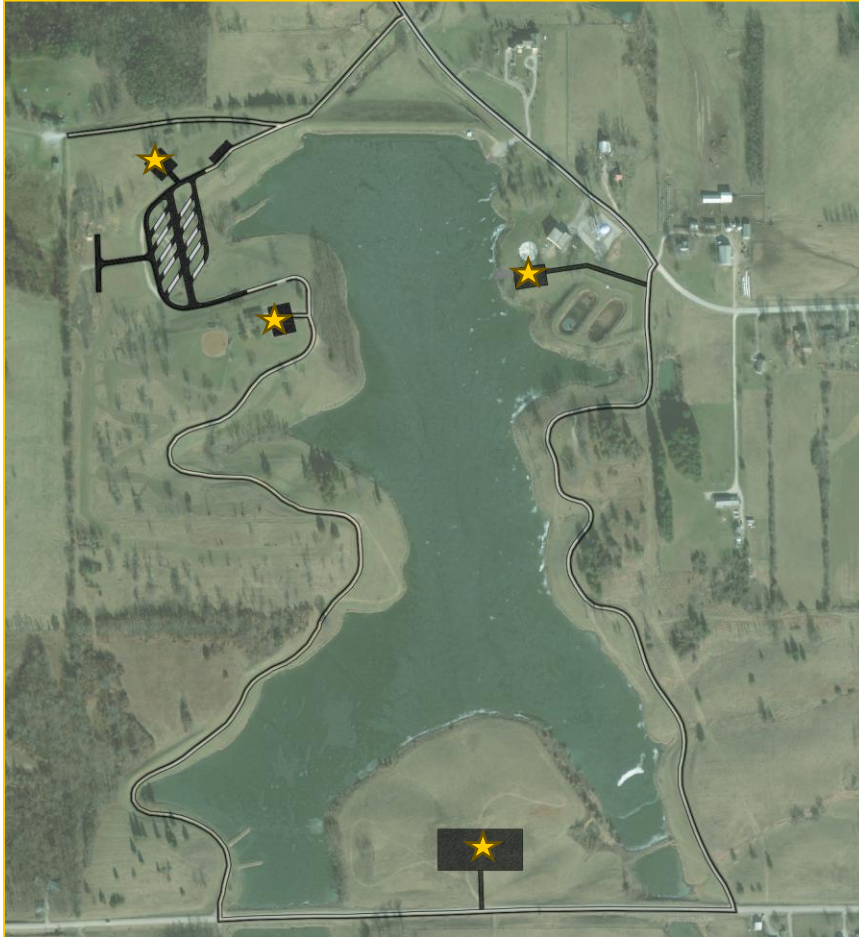


# Boat Ramp



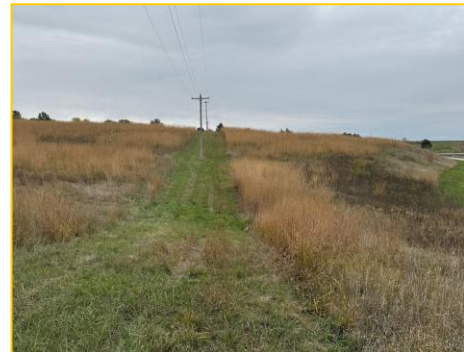
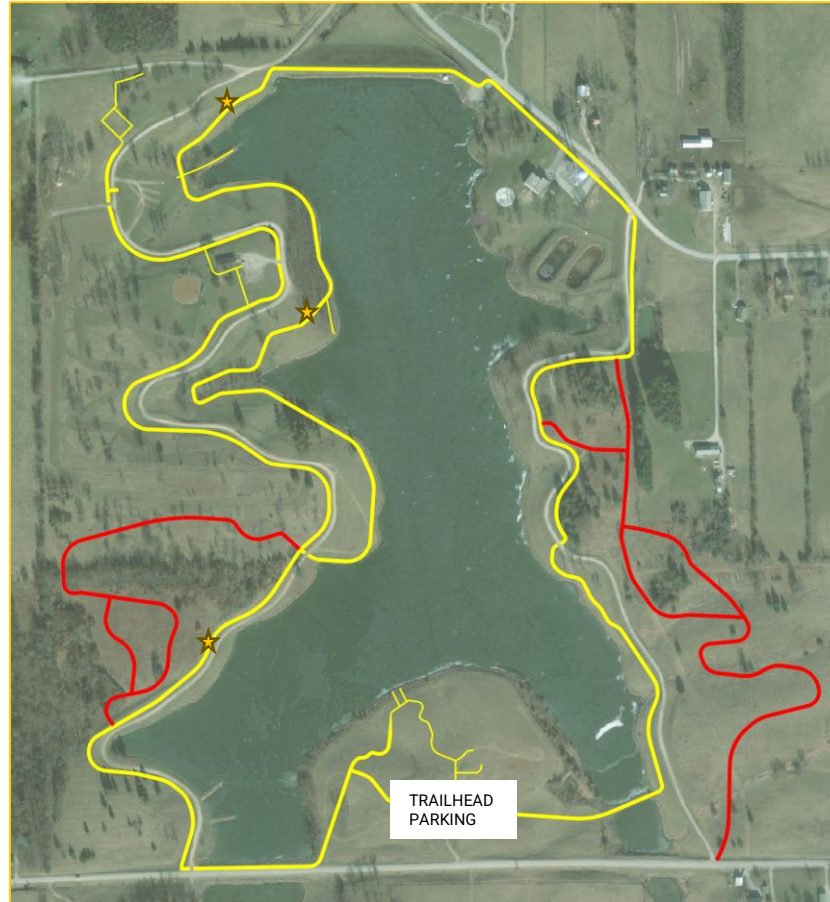


# Parking

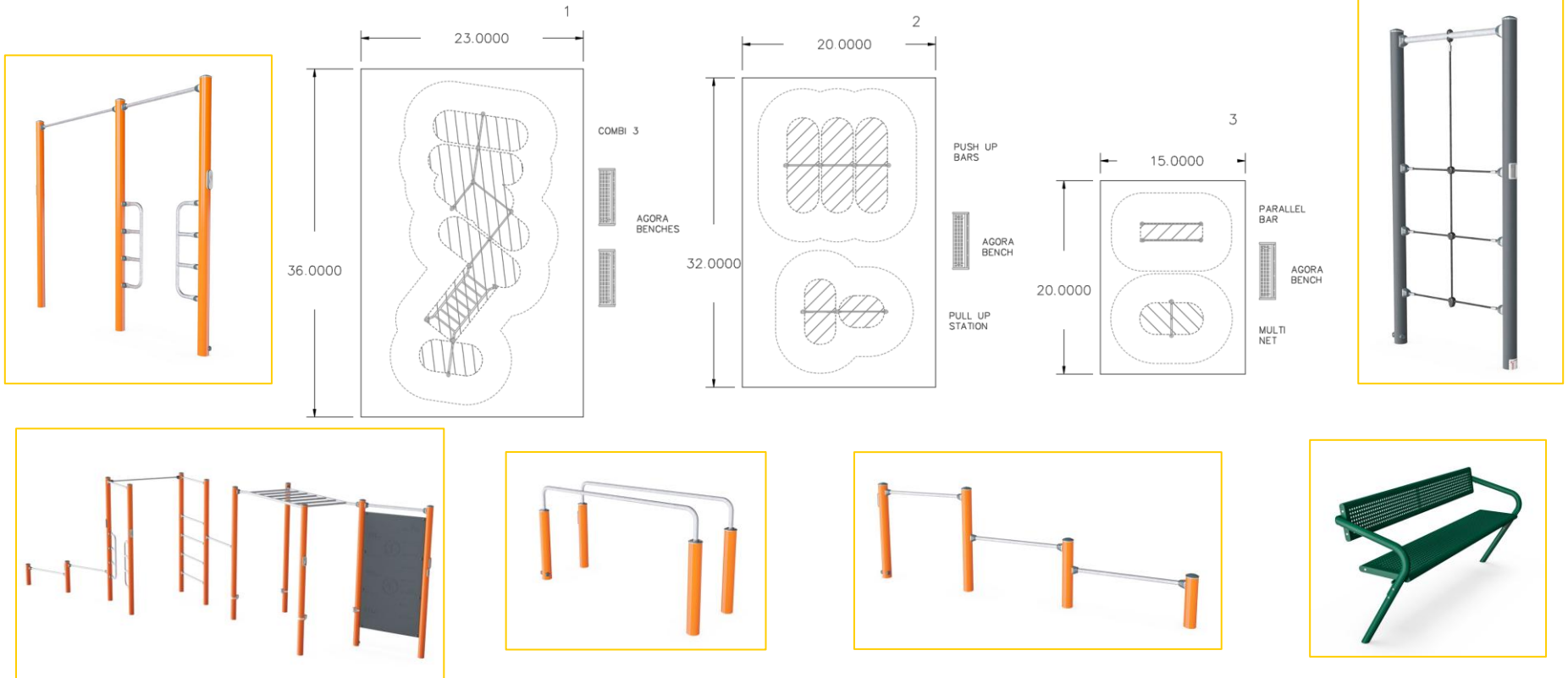




# Trail System



# Workout Areas



**IOWA**

Lake Fisher Recreation Area

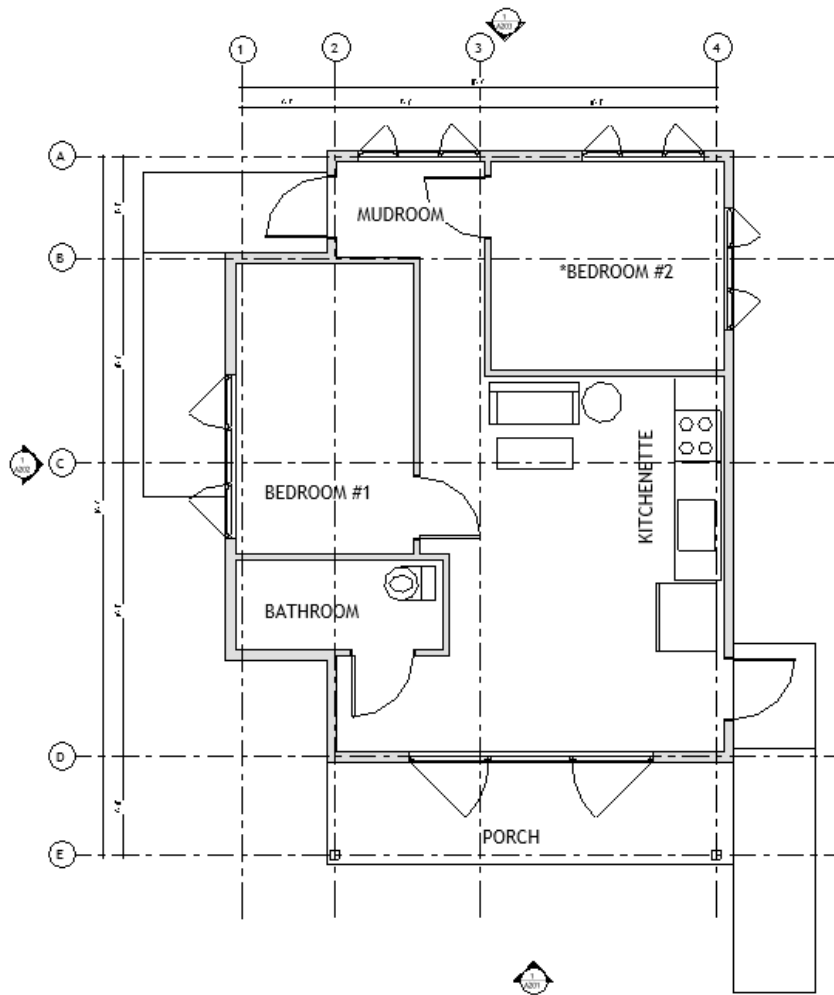


# Design Elements -Structural Engineering

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

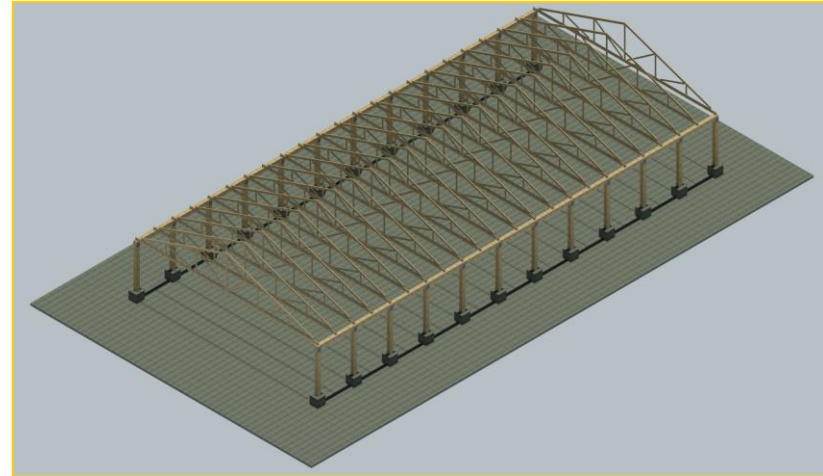
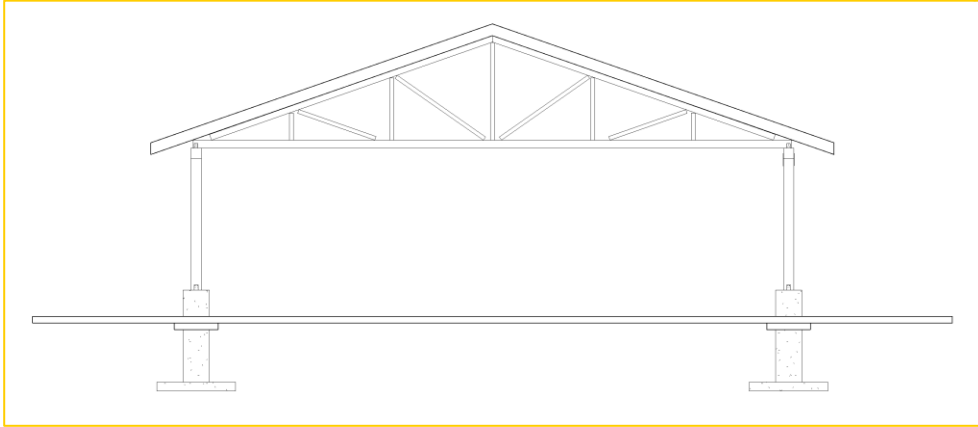


# Cabins



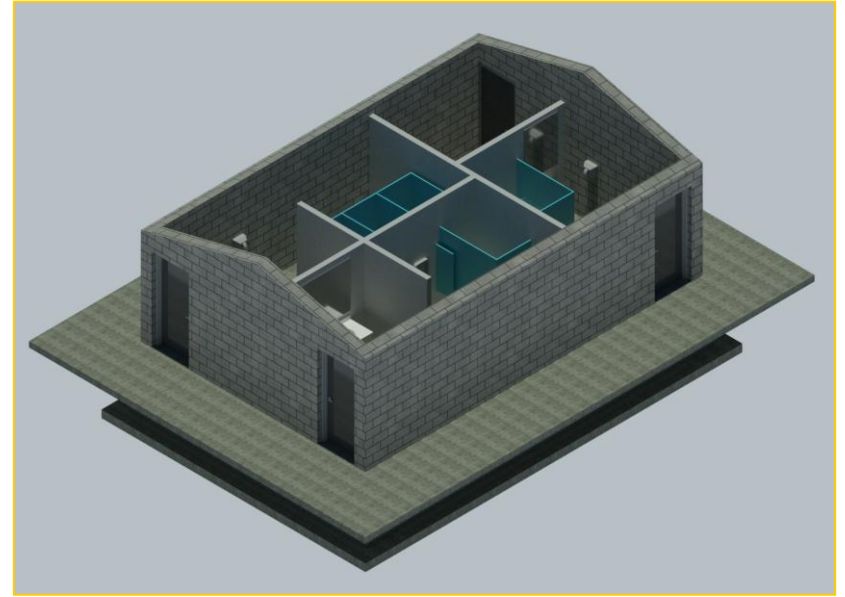
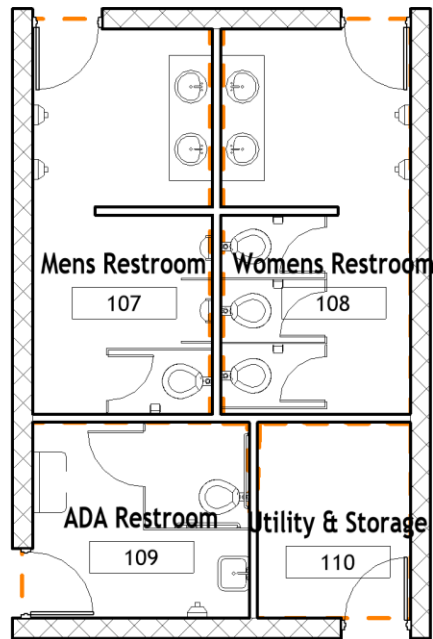
# Venue

---

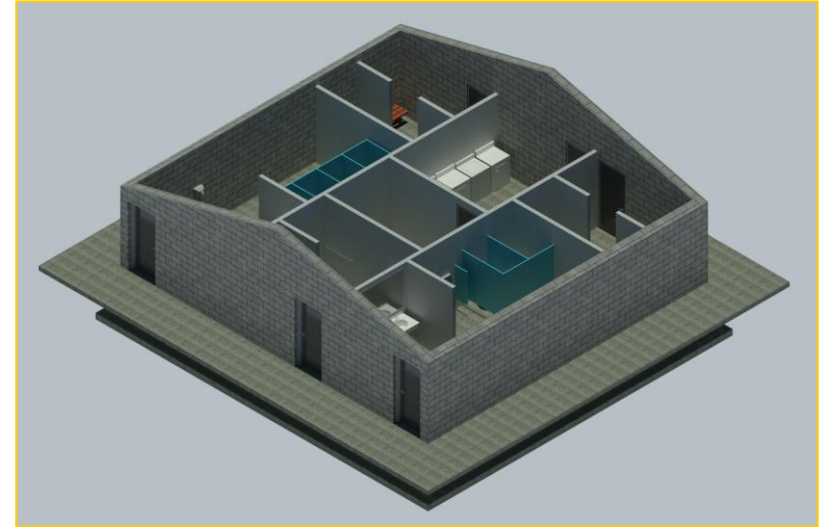
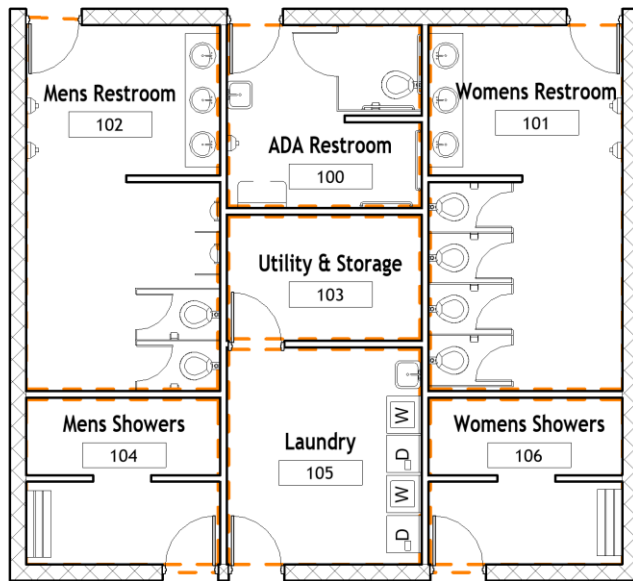




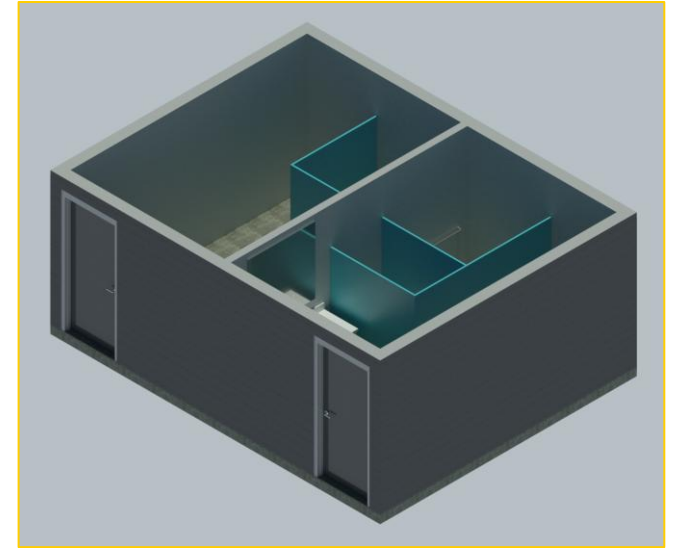
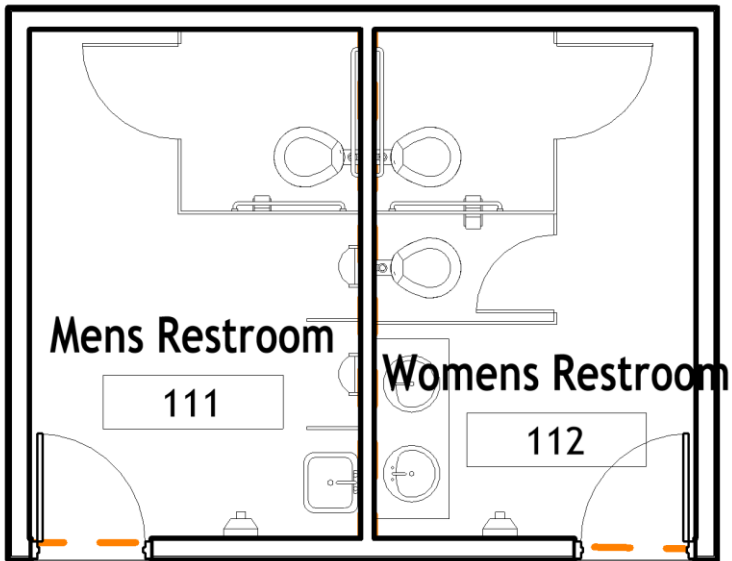
# Trail Head Bathroom



# Recreation Area Bathroom



# Softball Field Bathroom



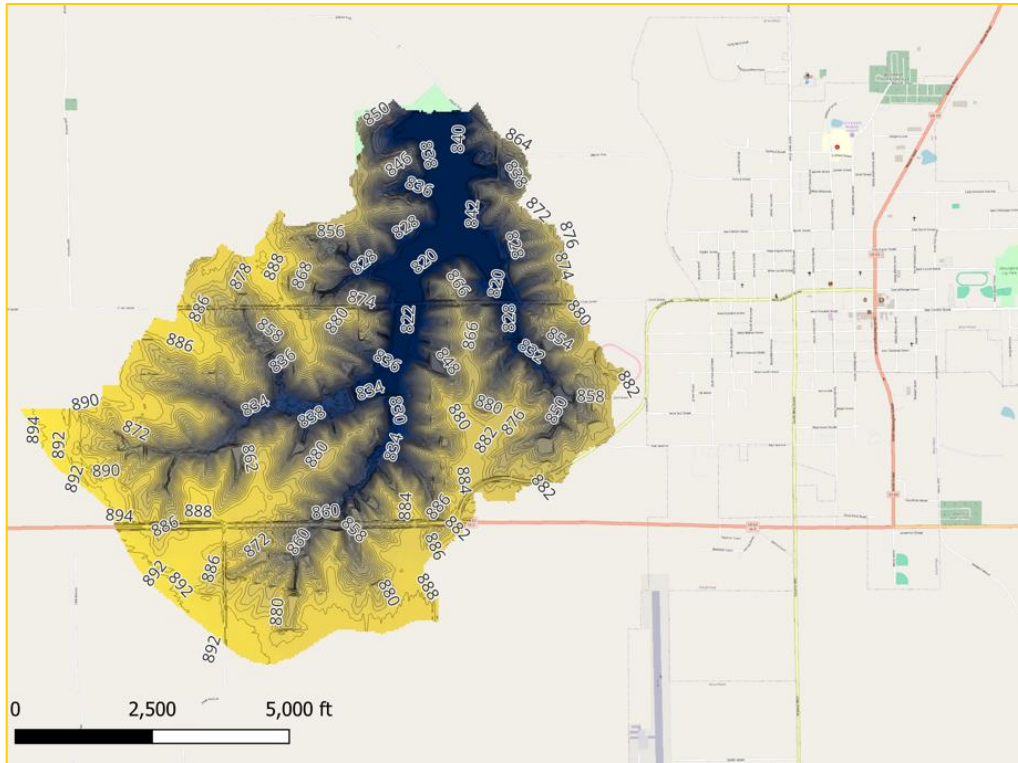


# Design Elements - Environmental Engineering

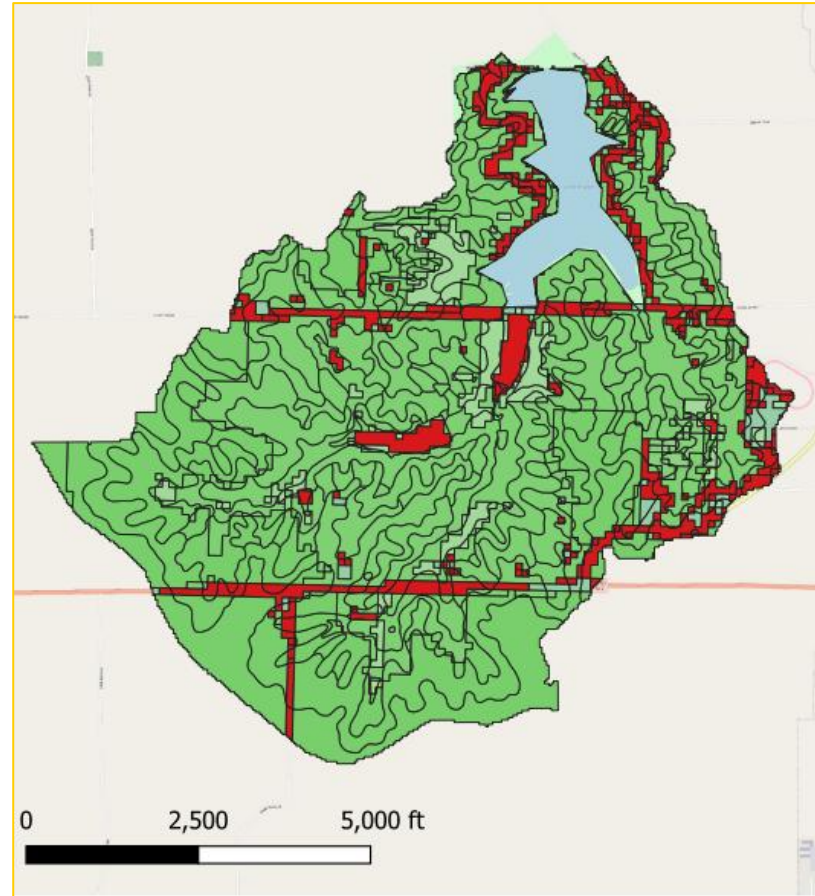
- Stormwater Analysis
- Erosion Control
  - Protective Rip-Rap
- Water Quality Analysis
  - Wetlands
- Septic Tank Design
  - Cabins, RV Campground, Restrooms



# Stormwater



1422 acres  
2.22 square miles



# 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



# Erosion Control

---





# Erosion Control



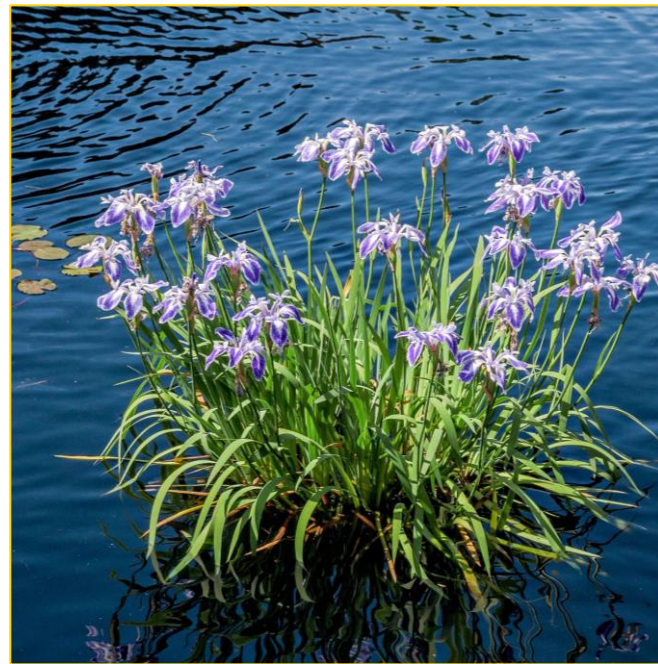


# Water Quality Analysis

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)
N Outlet	9.8	0.368	.010	14.18	ND	3.37
W Center	3.1	0.461	.012	14.43	570.48	3.78
SW Inlet	8.6	0.501	0.011	13.82	34.23	3.52
SE Inlet	33.1	0.585	0.009	17.41	ND	73.86
N of Berm	20.4	0.399	<0.0079	13.99	465.05	3.93



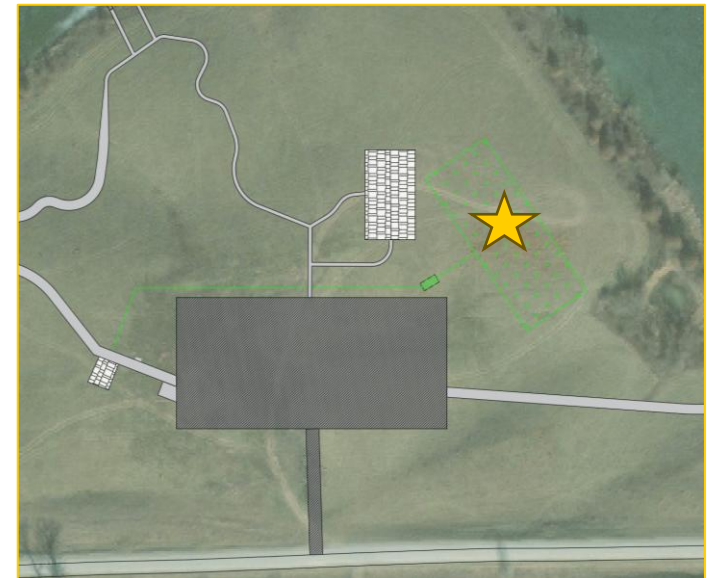
# Wetlands





# Septic Tank Design

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

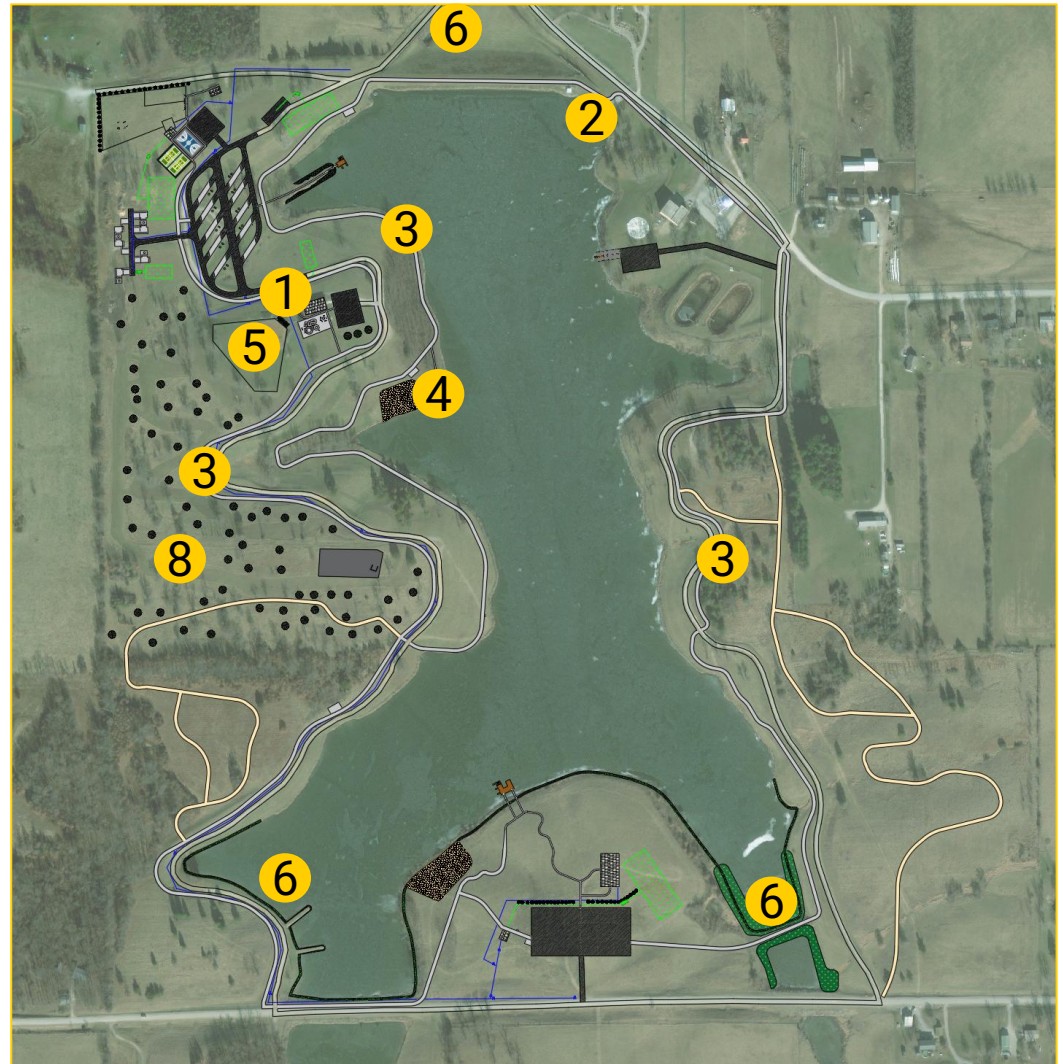




Cost: ~\$2,114,721.00

# Phase 1

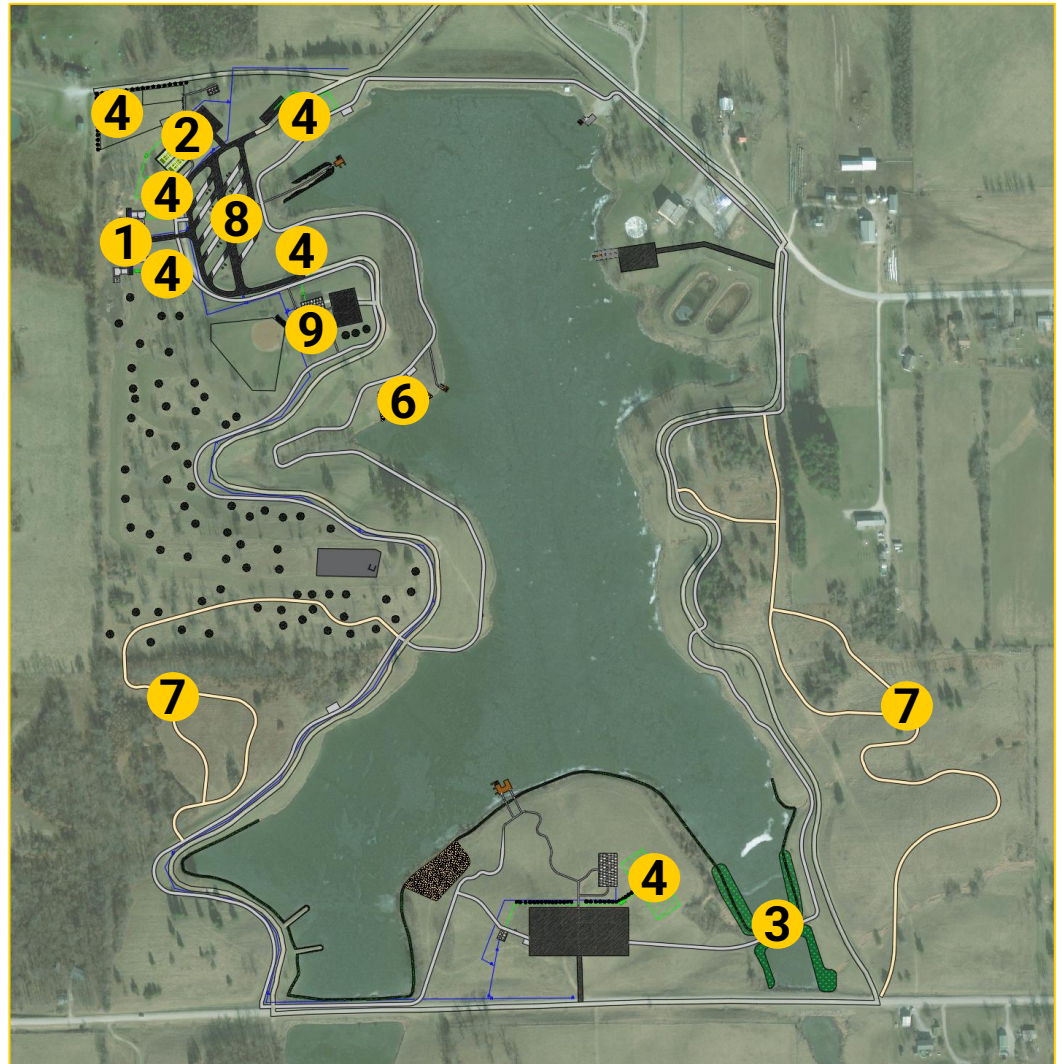
1. Restroom & Septic for West Pavillion
2. Existing Boat Ramp Enhancements
3. Walking Trails
4. West Dock
5. Softball Bleachers
6. Trees & Erosion Control
7. Utilities
8. Frisbee Golf Upgrades



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

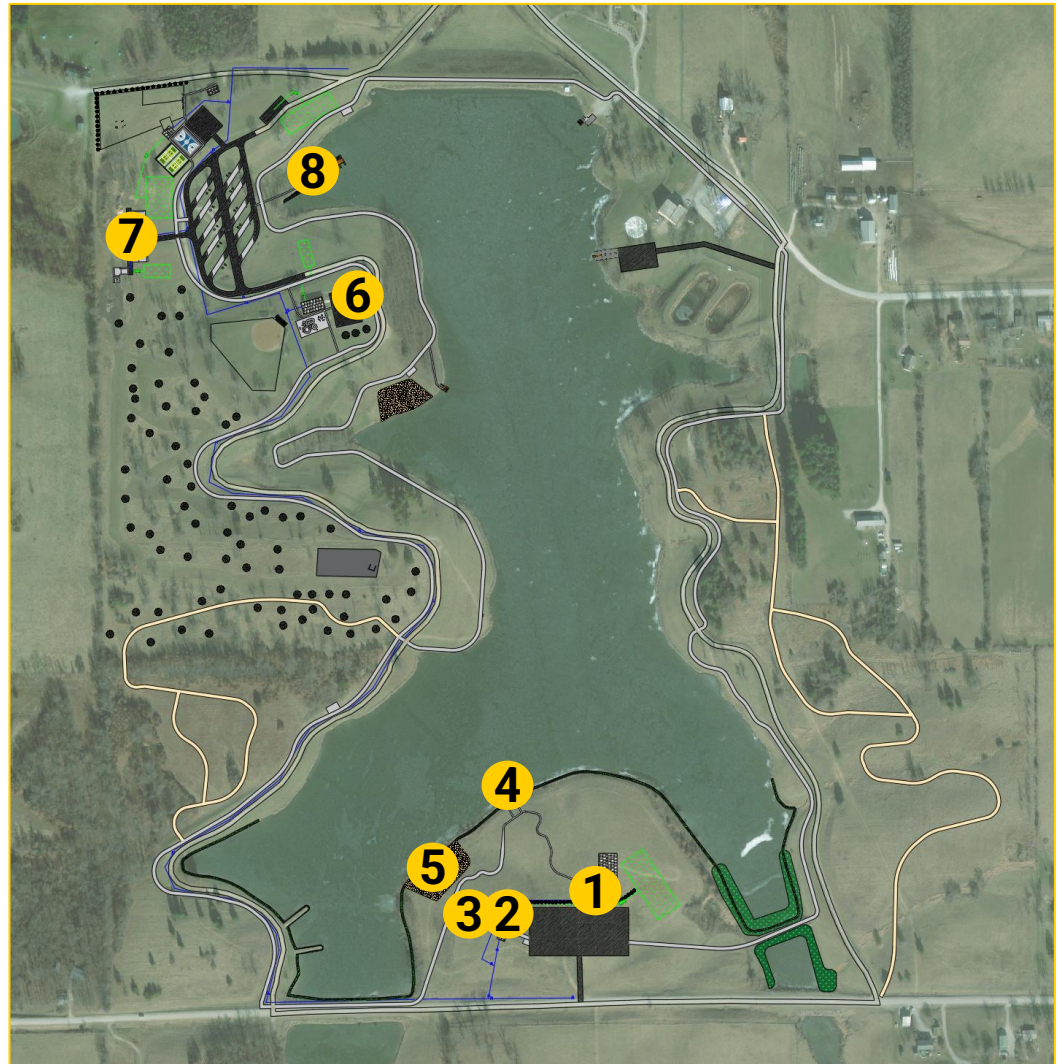




Cost:~\$1,989,246.00

# Phase 3

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

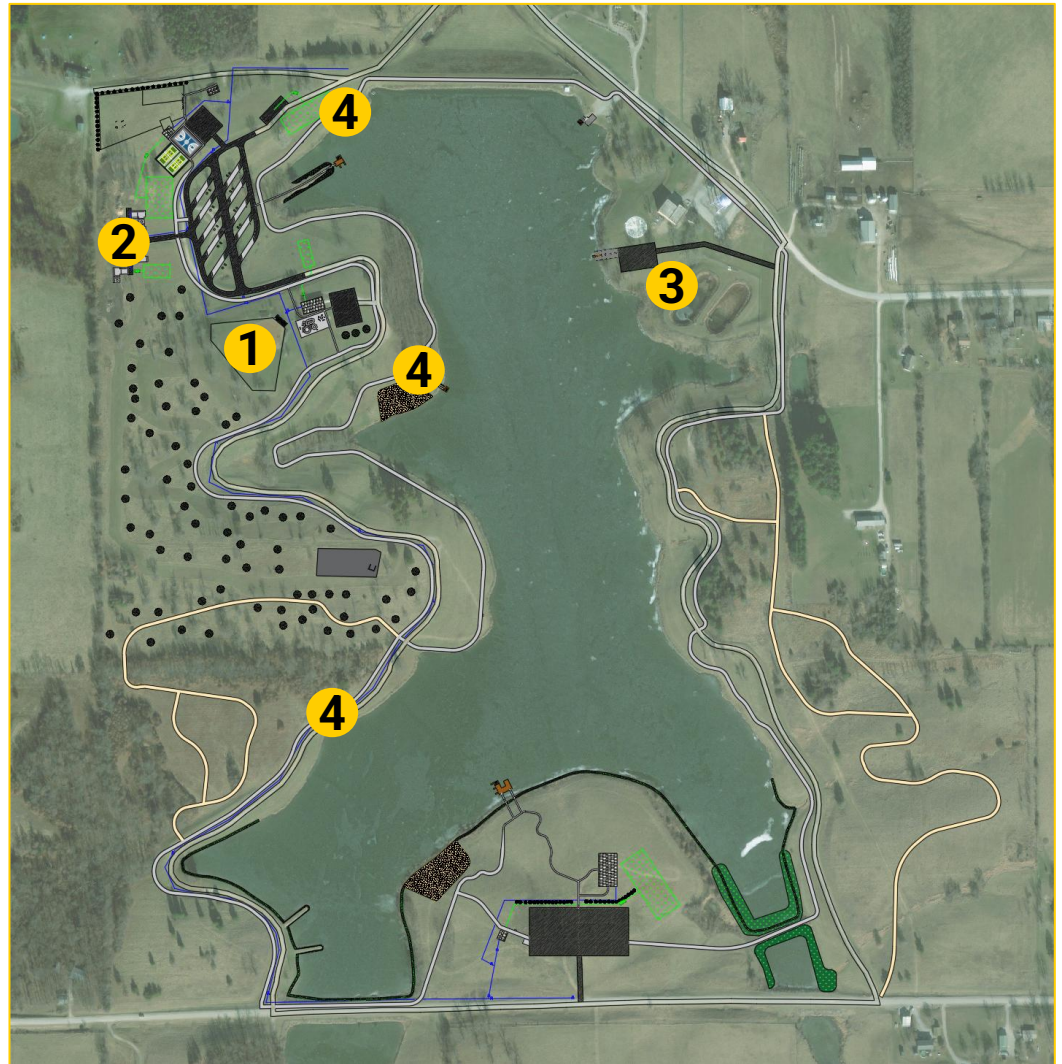




Cost:~\$1,305,962.00

# Phase 4

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



# Cost Estimation

---

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



