



Lakeshore Campground Redevelopment Study

Meeting Agenda / Overview

- Introductions
-

- General Project Overview
 - Design Process / Team
 - Review Study Phase Highlights
 - Public Input & How it Shaped the Plan
 - Natural Features Preservation
 - Programming Highlights (Technical)
-

- Programming Highlights (Design)
 - Review Concept / Schematic Design Plan
 - Plan Highlights & Details
 - Next Steps
-

- Group Discussion

Yesterday



Camper Footprints - Circa 1950's

Today



Tomorrow.....



Thinking Outside The Box

Incorporate Environmentally Friendly Technologies

- Solar power
- Wind turbines
- Porous pavers
- Water saving fixtures...

*Maximize
the therapeutic properties
of NATURE*

*Feature
Educational opportunities*

*Welcome
Social Media*

*For those physically unable to visit parks and to enhance
the experience of all recreation enthusiasts*

*Embrace
Virtual Nature*

LIVE ONLINE STREAMING

'Dune Restoration-Cam'

'Tree Canopy-Cam'

'Aviary-Cam'

'Critter-Cam'

'Aquatic-Cam'

...

*Adaptive Reuse
of existing infrastructure*

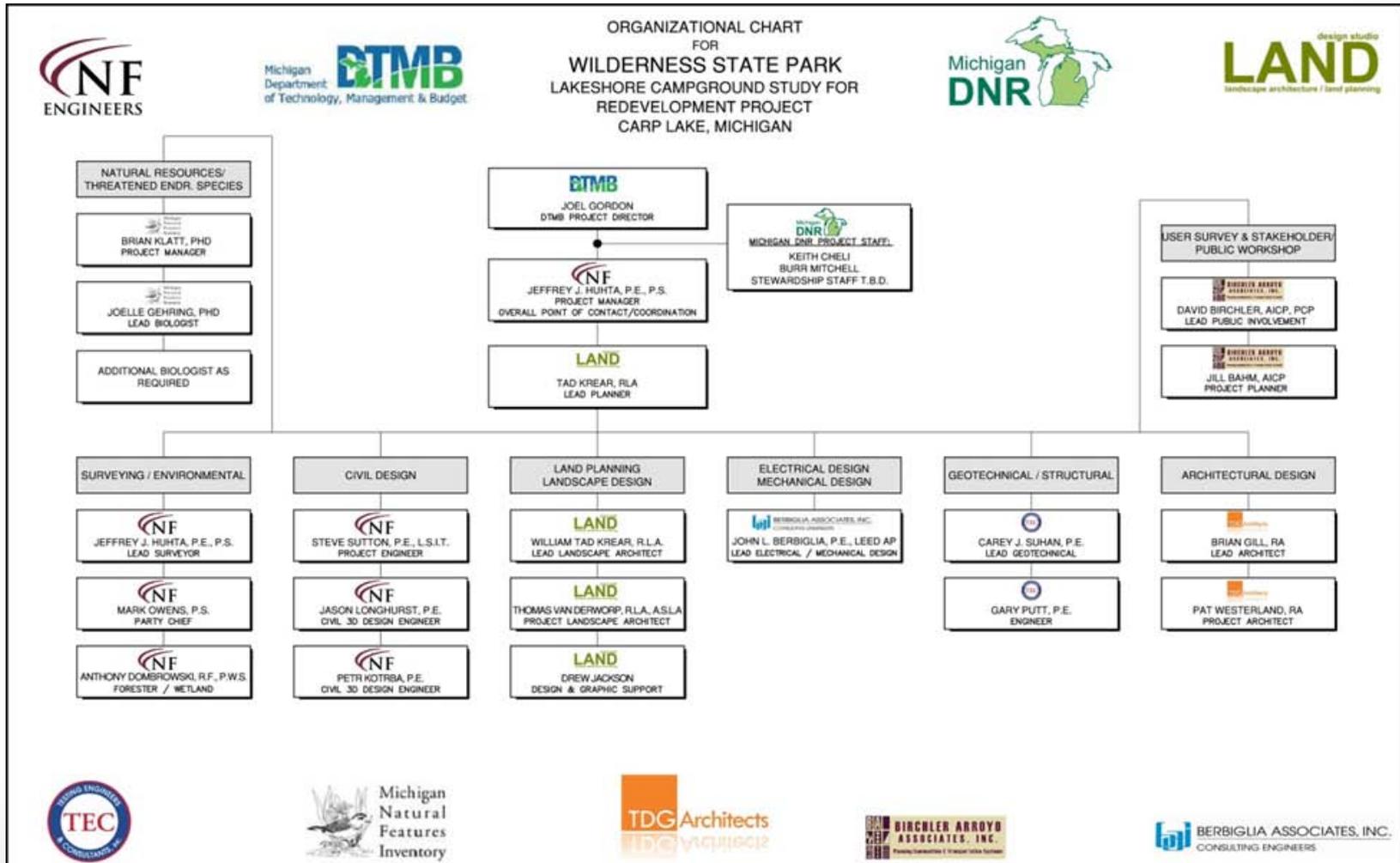
American Ingenuity & Creativity
Encompass



Design Process

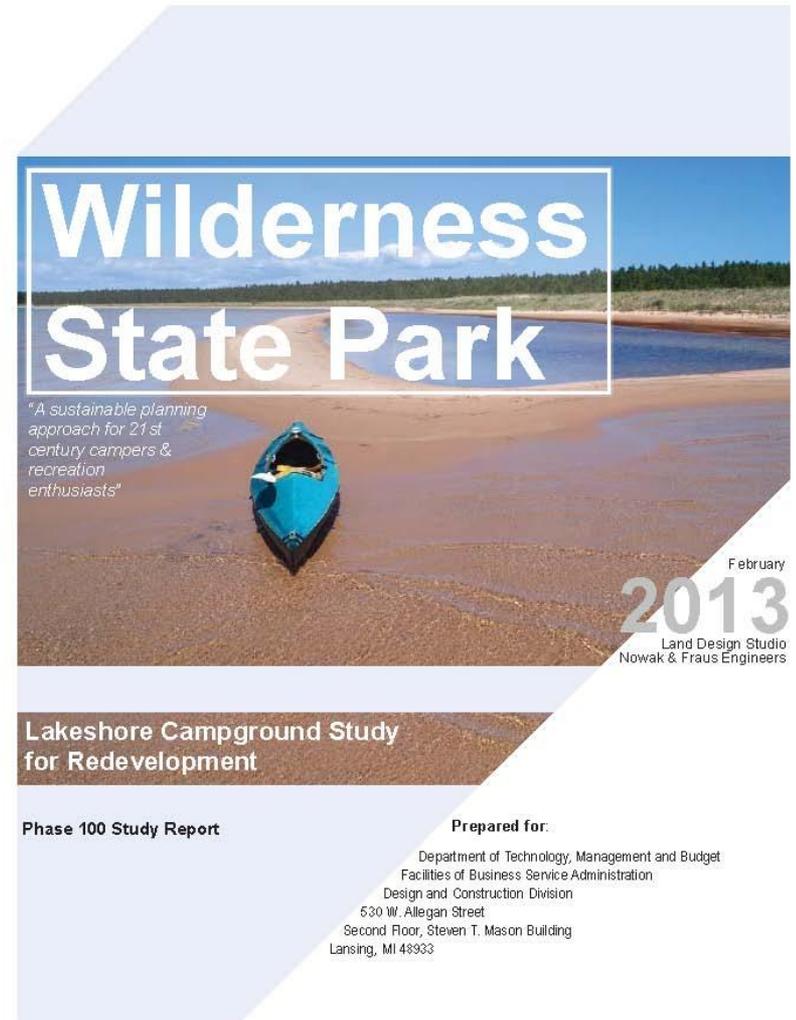
- Collaboration
- Transparency with Public
- MDNR-PR Agency Priorities
- Environmental Stewardship
- Sustainable & Cost Effective

Design Team



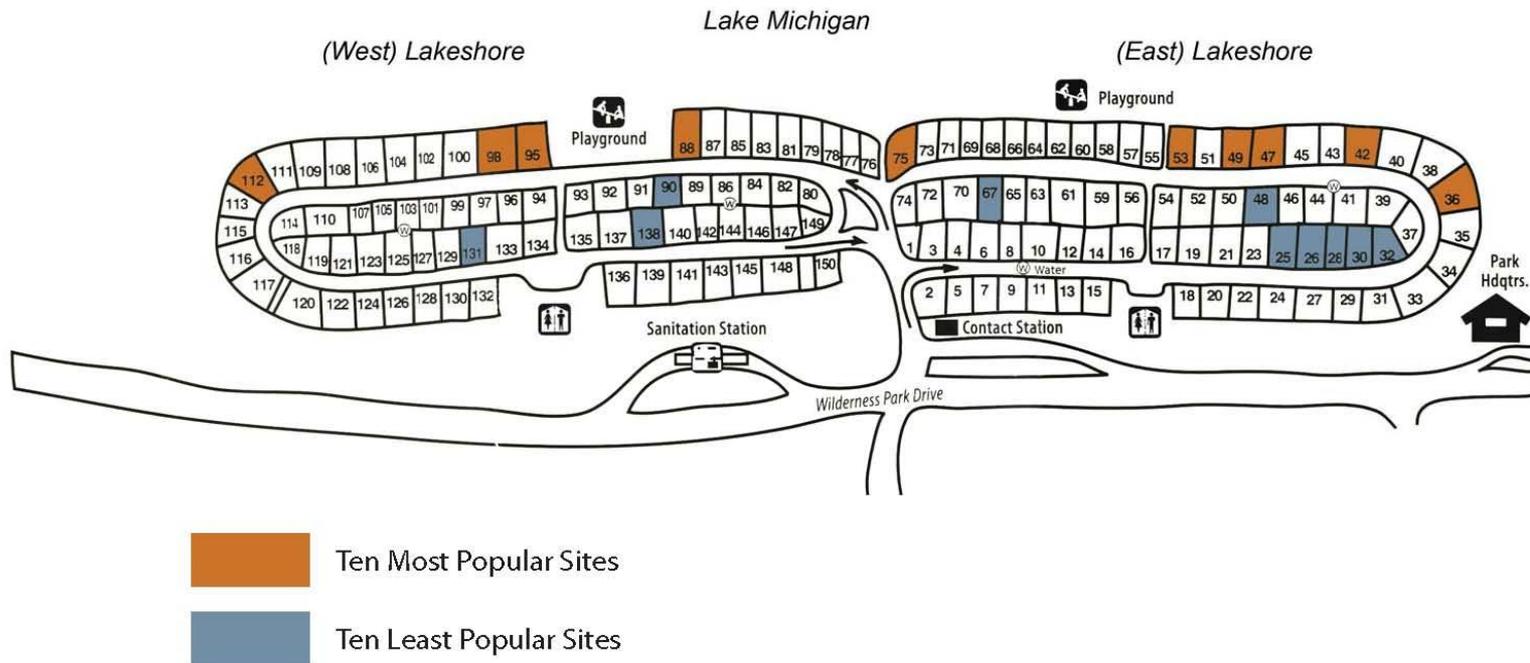
Study Phase 100

- Thorough In-Depth Analysis of Existing Conditions
- Redevelopment Objectives

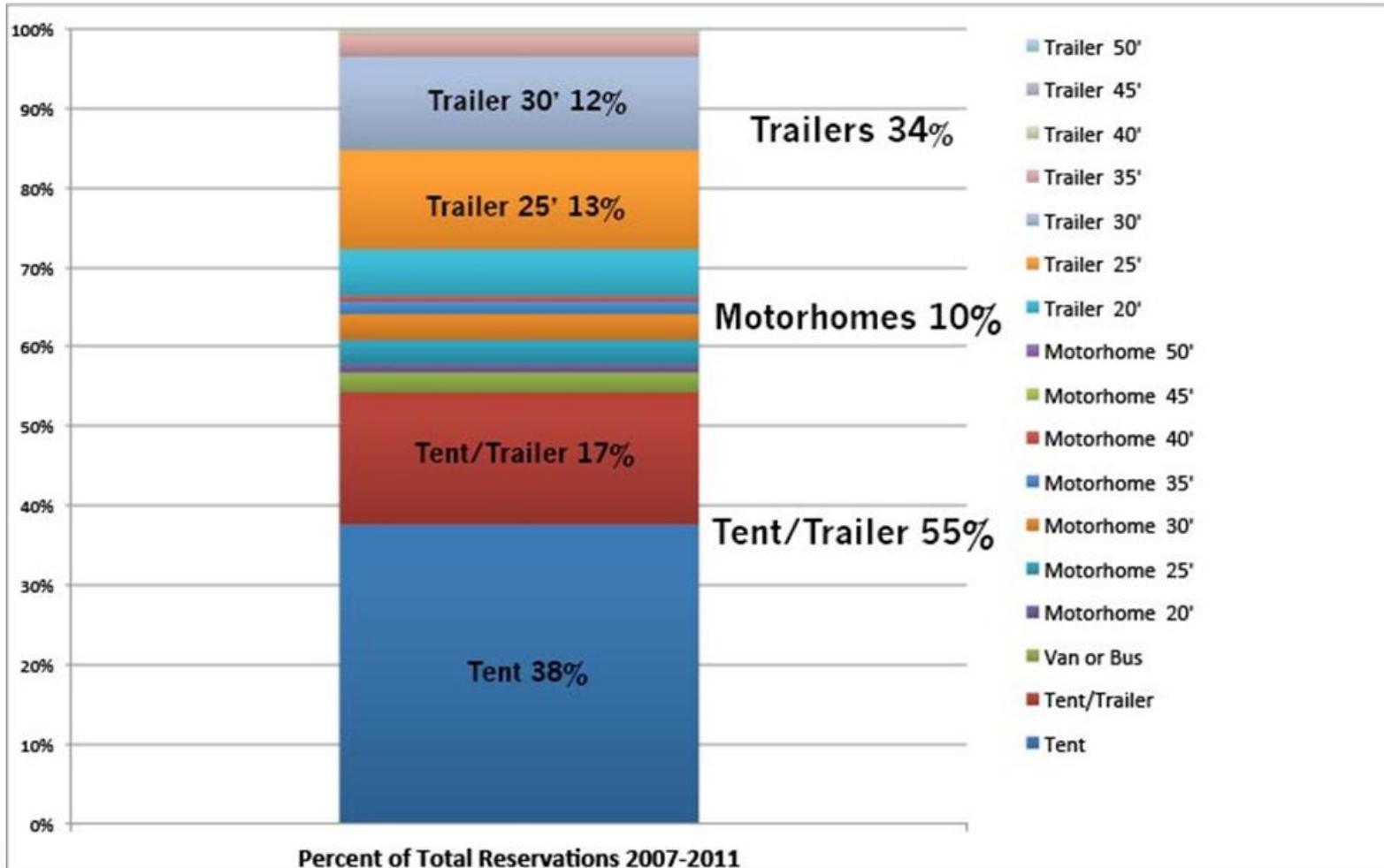


CRS Data

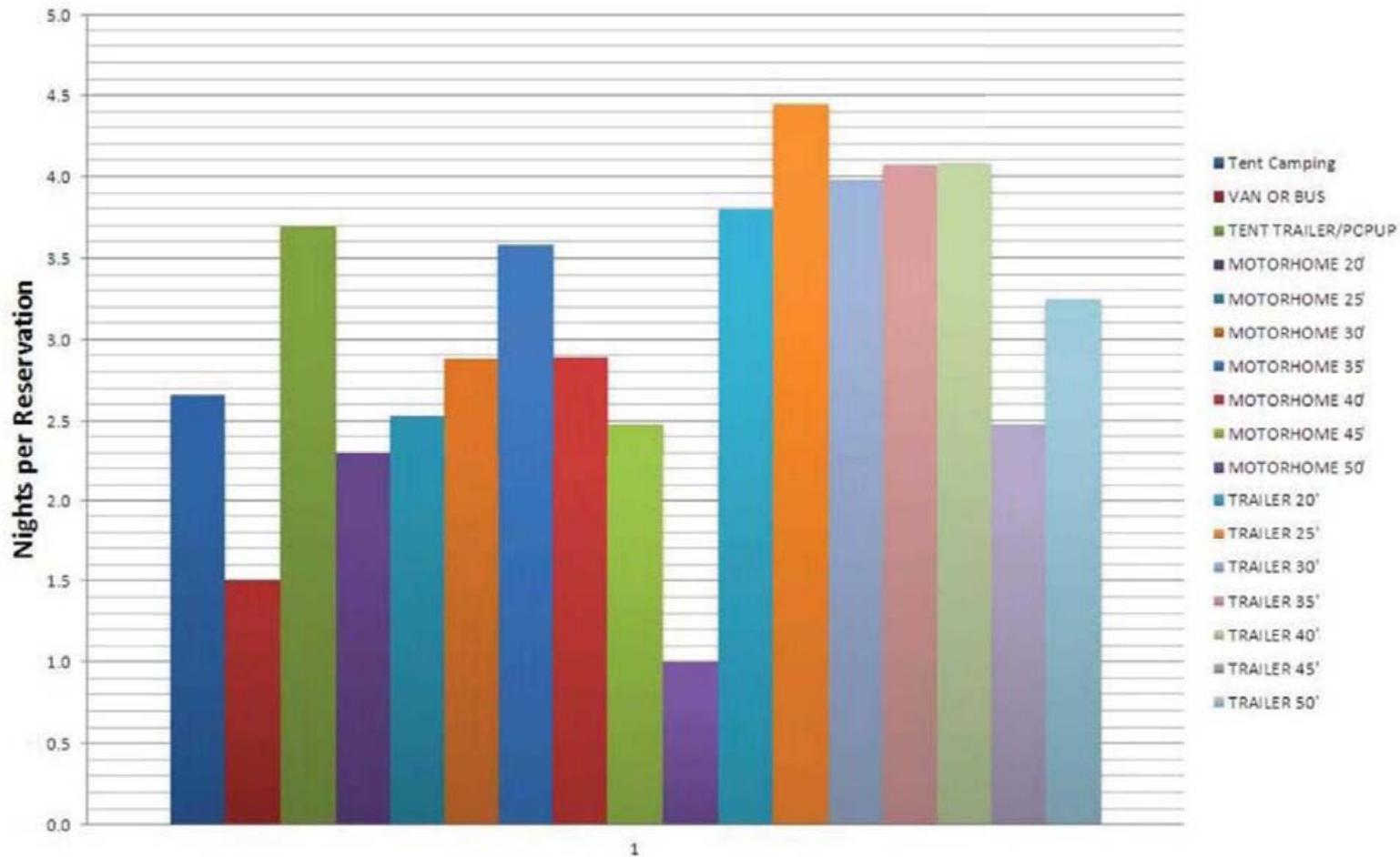
TEN MOST AND LEAST POPULAR SITES



CRS Data (Total Reservation by Equipment)



CRS Data (Reservation Stay Length By Equipment)



On-Site User Survey / Input

June – September, 2011

- Layout of Sites
- Restroom Buildings
- Sanitation Station
- Technology
- Roads
- Beach
- Pets
- Group Sites
- “Wilderness”
- Other Amenities

On-Site User Survey / Input

June – September, 2011

ITEM	COMMENTS
Beach	More beach lots
	Restroom at Beach (campground and day use area)
	Goal: More camp sites lake side
	More access to beach (3 per circle, boardwalk) 53 & 55, down by 38 & 1 more place in between
	Clarify paths to beach- maybe identify, Ask people to use marked paths
	More access walks to beach on East Lakeshore
	More access walks to beach on East Lakeshore
	Rake right @ shoreline
	Keep beach lots
	Need an area designated for dogs on the beach
	More walkways to beach
	Clear more sand areas on the beach
	A small beach area for dogs.
	Walkways to the beach
	Playground off beach
	Leave Lakeshore sites as are (east end sites so nice) :) - add a third loop on the shoreline to include group camping
	Additional Lake Shore Sites
	Clear vegetation so there is more useable beach area
	Extend campground to have more lakeshore sites and make larger sites to accommodate bigger units. Our 30 foot does not fit most. Paving on sites OK with grass
	Please Please Please do not take waterfront sites out or make them just tent sites. We come all the way from the East Coast to camp here (37years).

Historic Significance

- CCC Craftsmanship
- Michigan Lumber Industry



Regional Connectivity

- North Country Trail



The North Country Trail

is America's longest National Scenic Trail stretching 4,600 miles from New York to North Dakota, linking 7 states, 10 National Forests and more than 150 public lands.

The NCT provides year-round recreation opportunities as it traverses America's north country and unites our red plaid nation.



Dark Sky Park Designation



Natural Features Inventory

- Tree Survey
- Vegetation analysis
- MNFI Evaluation / Field Survey
- Shoreline Ecosystem
- Dune & Swale Wetland Complex

Tree Inventory



○ Large Trees (18" - 26" DBH)



Natural Communities

Wooded Dune & Swale Complex



Rare & Endangered Species



MNFI Mapping

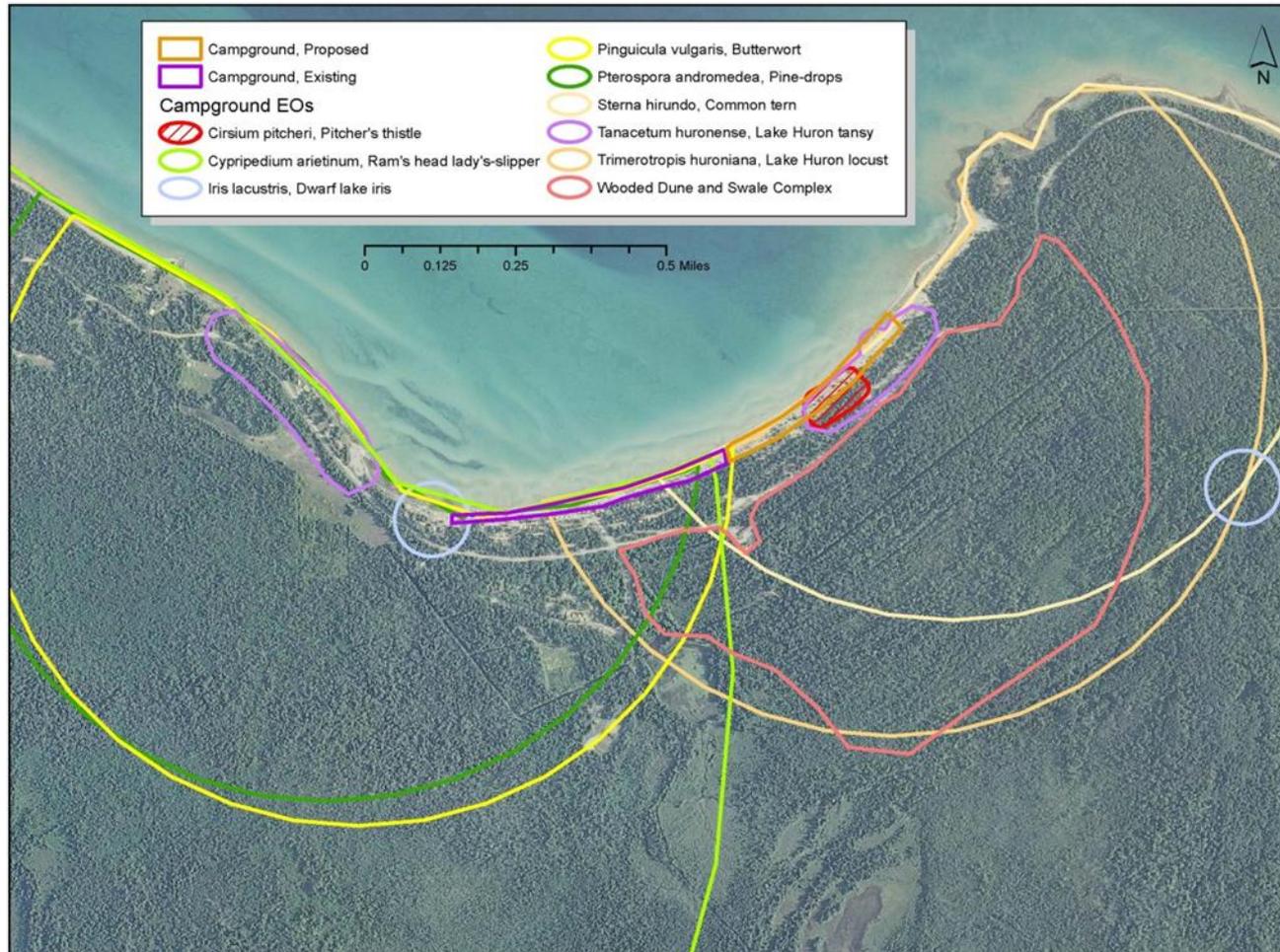


Figure 1. Known Element Occurrences intersecting the existing or proposed expansion areas of Wilderness State Park - Big Stone Bay Campground

Environmental Stewardship



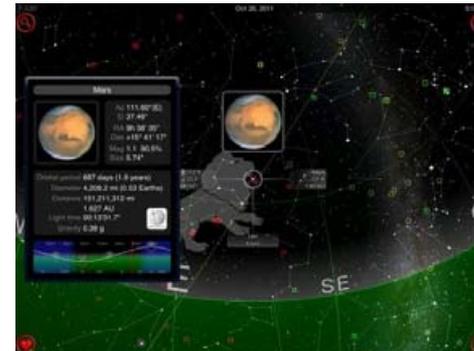
- Threatened & Endangered Species Protection
- Low Impact Development (LID)
- Green & Sustainability Initiatives
- Dunes Reclamation



Future Recreation

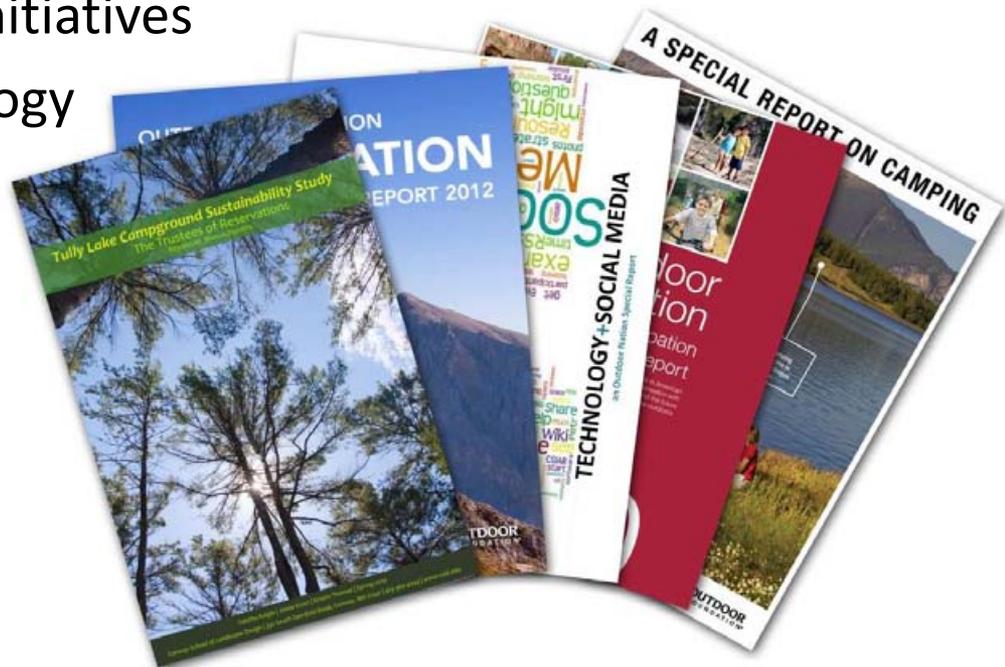
Proposed

- Kite Boarding
- Stand-Up Paddle Boarding
- More Bike Trails
- Senior Activities
- Geocaching
- Mobile Apps



Background Research

- Design Criteria, Standards & Practices
- National Recreation Activity Trends
- Michigan Recreation Activity Trends
- Recent Michigan Initiatives
- Sustainability / Green Initiatives
- Social Media & Technology



Signage

Traffic Signs



5 MPH

Slow

Trail Signs



10k Finish

Trail Map

Walkway

Instructional Signs



Emergency Telephone Numbers

Registration Sign

Fish Guts Only!

Area Signs



Site Number

Headquarters Sign

Recycling Area

Garden

Rule Signs



No Parking

Drinking Fountain

No Bikes

Do Not Was Dishes or Clothes

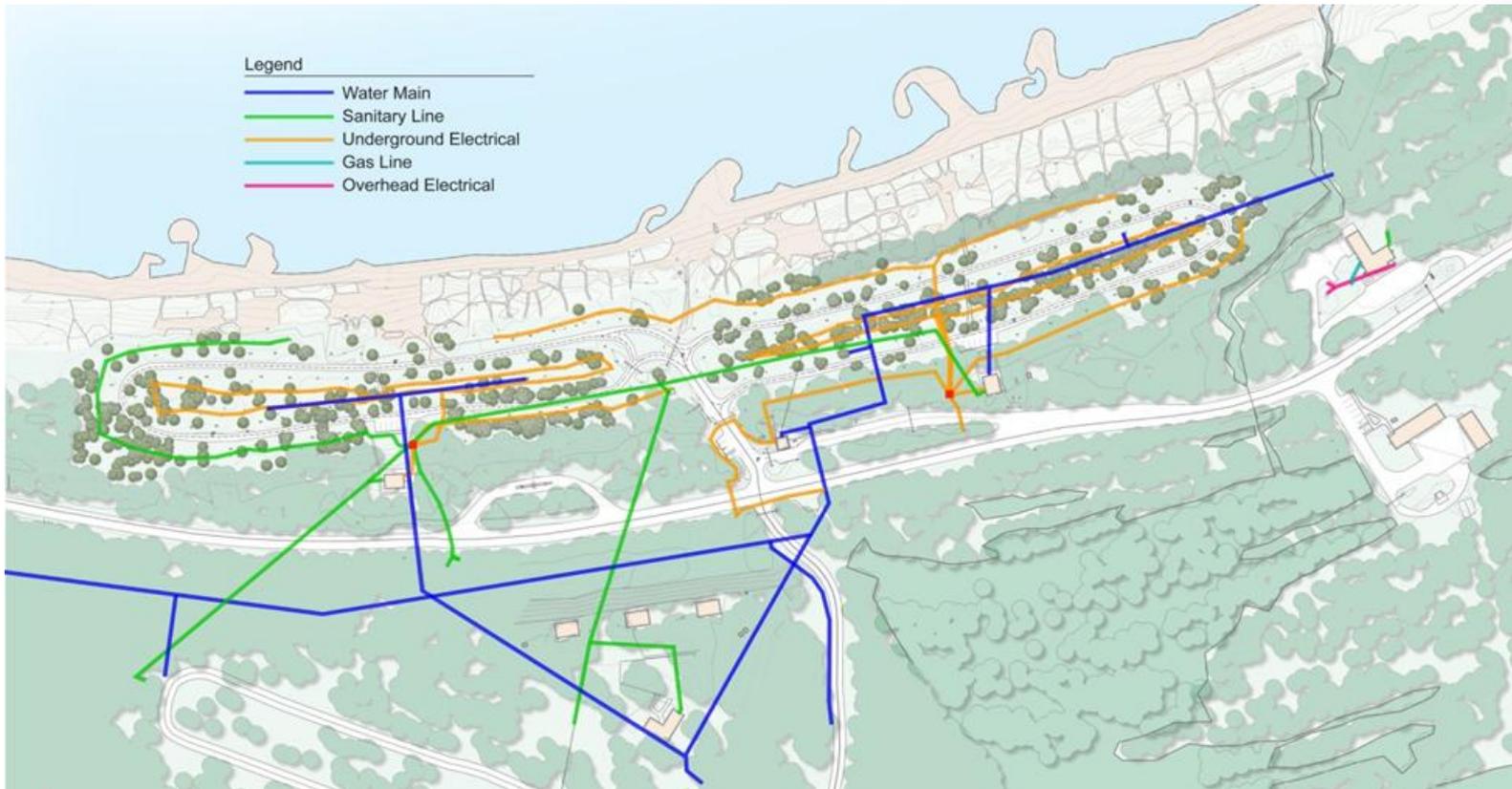
No Glass Or Animals

Recreation Passport / No Dogs



Dogs Prohibited

Infrastructure



Infrastructure



On-Line User Survey (2012)

- Over 1,200 Respondents
 - User Demographics
 - Equipment Usage / Accommodations
 - Preferred Recreational Activities
 - Desired Technology Upgrades

FACEBOOK



WILDERNESS STATE PARK'S LAKESHORE CAMPGROUND

903 Wilderness Park Drive
Carp Lake, MI 49718
(231) 436-5381
April 1st - December 1st

PUBLIC INPUT

The feedback and input of park users is critical to the planning of new and updated facilities at Lakeshore Campground. Below are descriptions of three avenues by which users can participate in the planning process.

1. Survey – deadline for completing the survey is January 31st!!

Park users can click on the below link to access an online survey that seeks users opinions about existing and future facilities at Lakeshore Campground. A hard copy of the survey can also be downloaded [Here](#). You can choose to e-mail the completed survey to Susan Roble at sroble@birchlarroyo.com or print/mail it to the following address:

Birchler Arroyo Associates
28021 Southfield Rd.
Lathrup Village, MI 48076

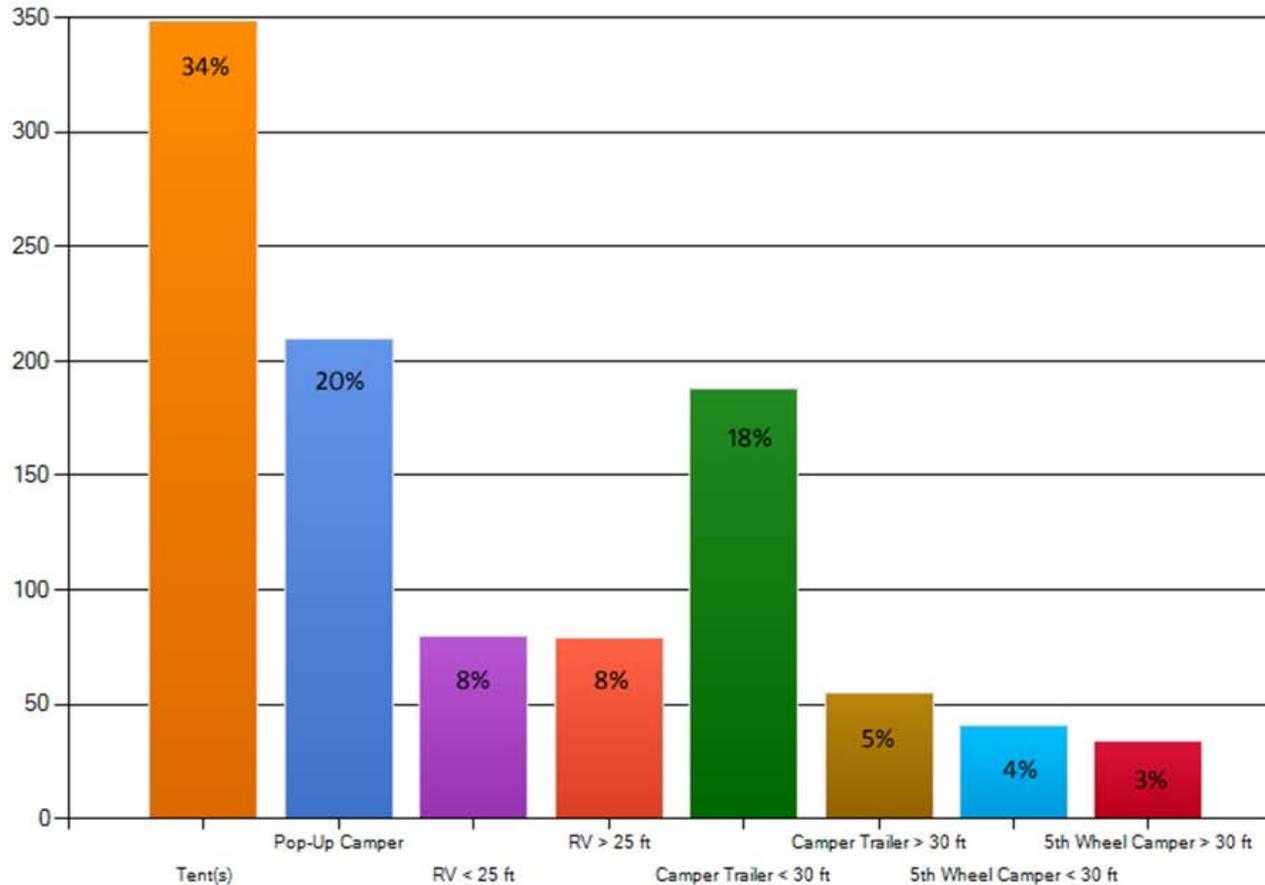
Online Survey: http://www.surveymonkey.com/s/wsp_lakeshore

COMMENTS & FEEDBACK

We welcome your suggestions and feedback on this study and ask all to refrain from criticizing other people and/or their comments. Such posts will be removed.

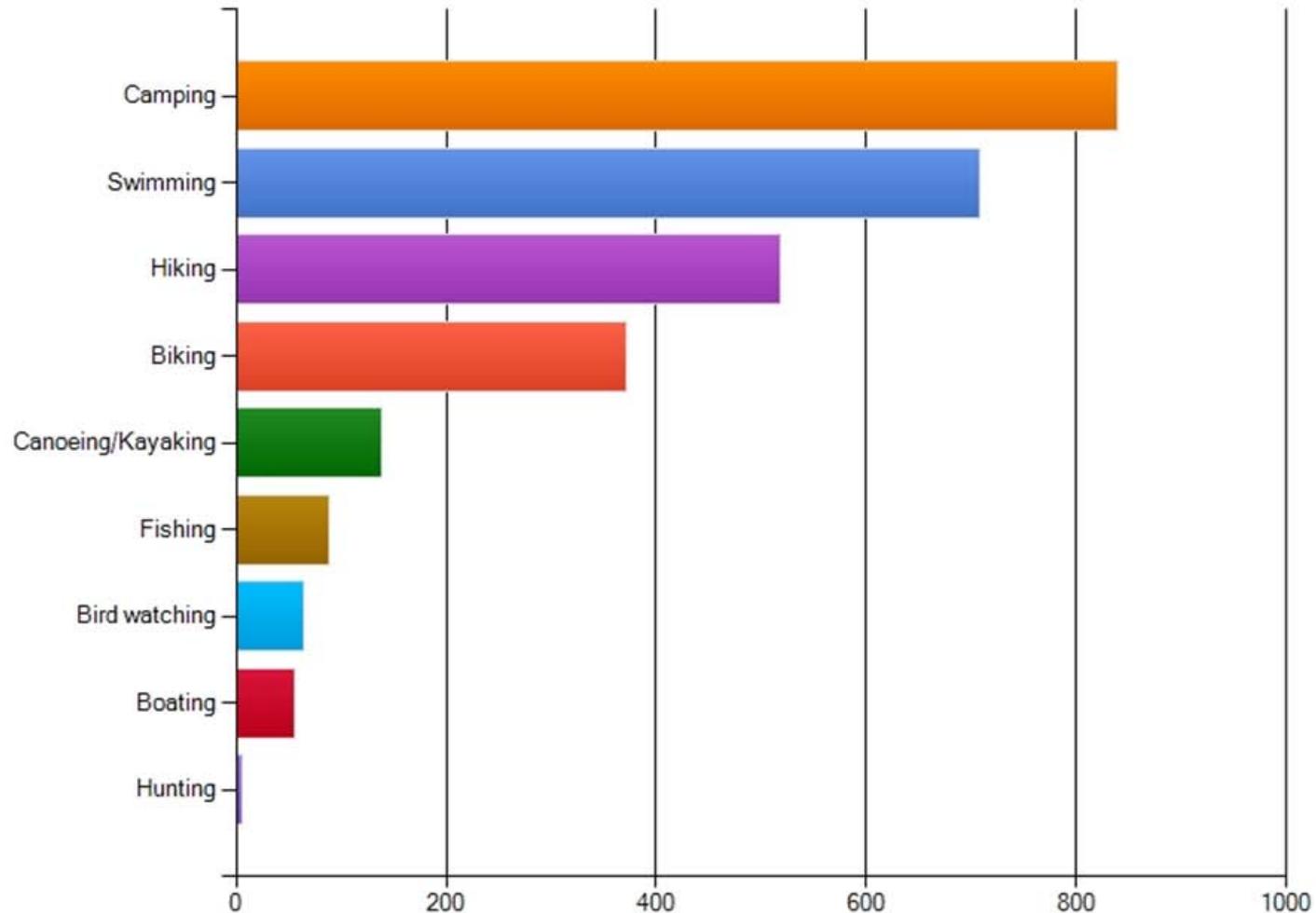
Primary Accommodations

If you camp at Lakeshore Campground, what are your primary accommodations?



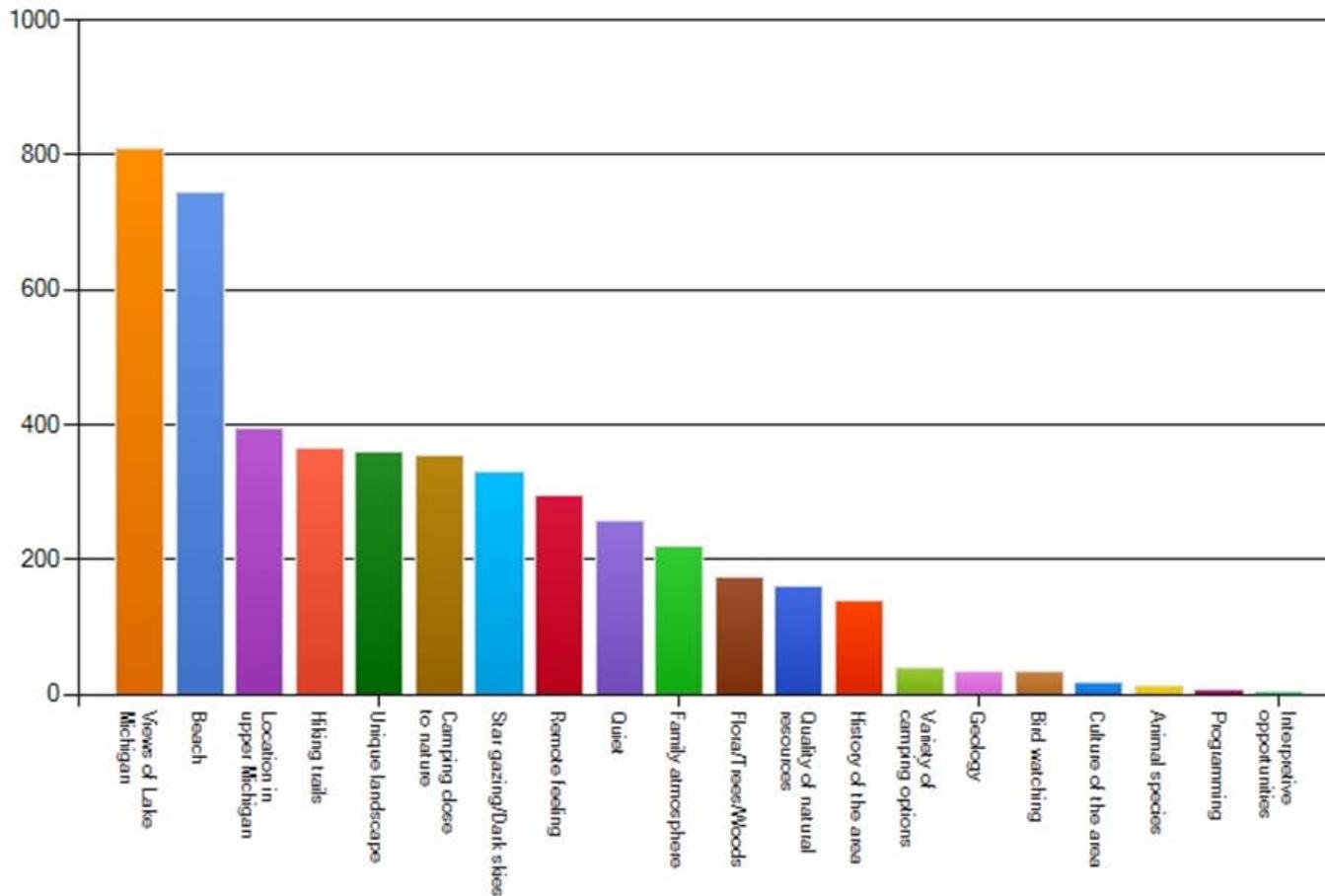
Most Important Features

What are the park's most important recreational features for you? (check up to 3 choices)



Most Unique Characteristics

What characteristics make Wilderness State Park and Lakeshore Campground unique?
(check up to 5 choices)



Common Themes

- Loyal Base of Passionate Users
- Keep It Wilderness
- Upgrade Bathrooms & Roads
- Do Not Pave Pads
- We Come for the Beach
- Love to Camp on the Water
- Great Family Atmosphere
- Maintain Lake Views
- Need a Dog Beach

Website

WILDERNESS STATE PARK'S LAKESHORE CAMPGROUND



[about](#) / [maps](#) / [news](#) / [photos](#) / [public input](#) / [study](#) / [testimonials](#)

FACEBOOK



ABOUT



COMMENTS & FEEDBACK

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LAKESHORE CAMPGROUND

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Website Comments

9 responses on "About"



Lori Taepke May 16, 2013 at 5:21 pm · [Reply](#) →

Another suggestion. Seeing Wilderness has so much beach. I would really enjoy a no hook, no audio!, large secluded lots on a loop off on it's own /beach. A place to do the real "camp" experience, where you can enjoy the sound of the waves, wildlife calling at night and the glow of a lantern. Just a dirt road, a water pump and an everlasting memory to share with your grand kids.

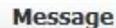
Facebook Page

facebook    Search for people, places and things   Tad Krear Find Friends



Lakeshore Campground
at
Wilderness State Park



Lakeshore Campground at Wilderness State Park  Like  Message 

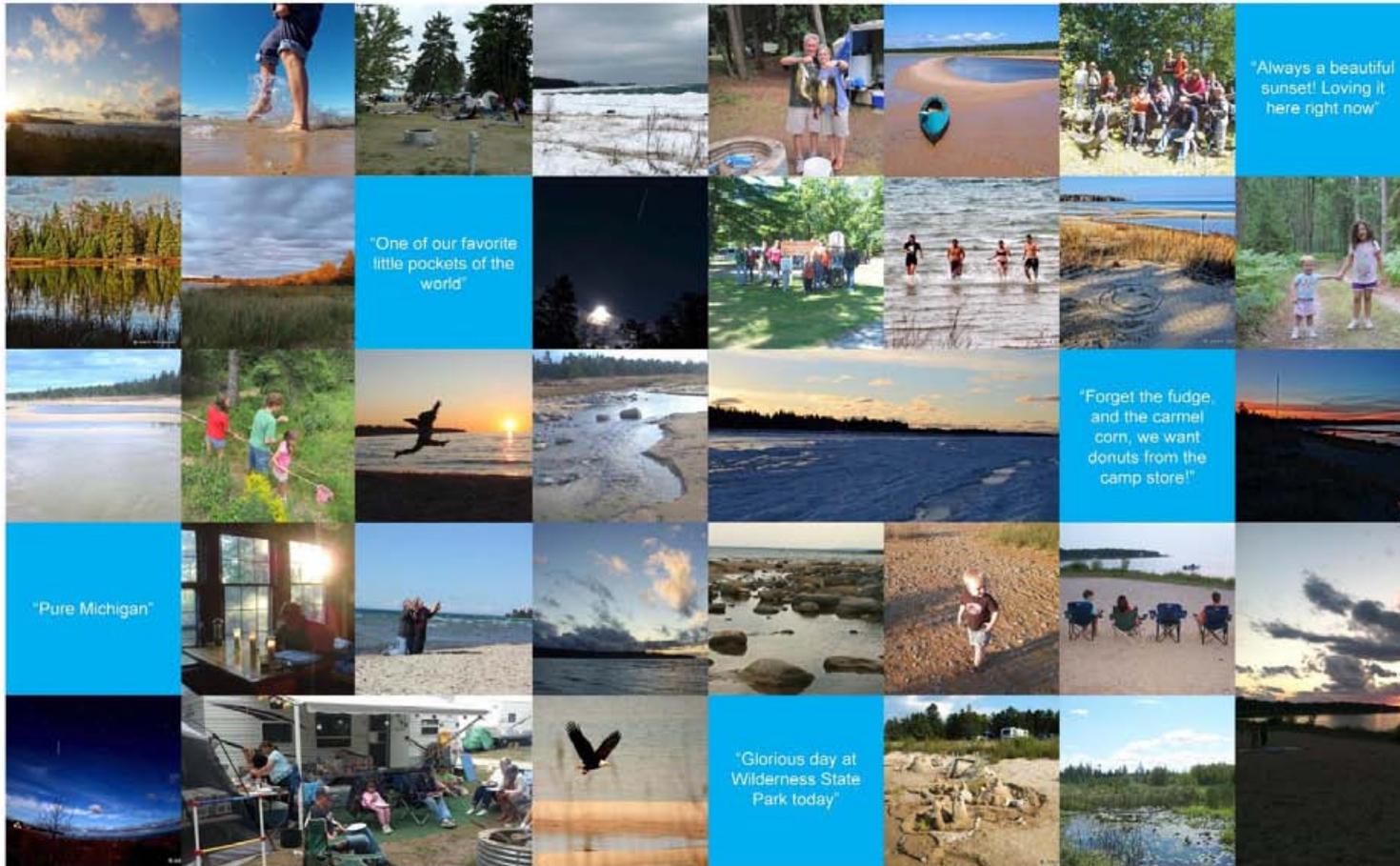
193 likes · 25 talking about this

Community
Come visit Lakeshore Campground located on the shoreline of one of Michigan's most valuable resources - Lake Michigan!

About – Suggest a Change

 Photos  Likes **193**  Find Us  SurveyMonkey  2

Facebook Page "Picture This"



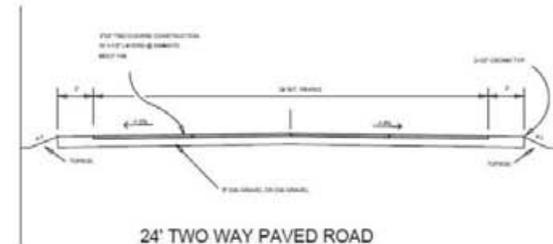
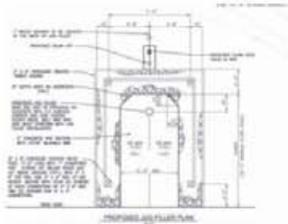
Program Development & Schematic Design

- Off-Site Team Workshop



Infrastructure

Program Element	Existing	Users	Types and Quantities	Performance Standards (Quality of Elements Via Materials and/or Function)	Patterns (Physical Relationships)	Special Notes
Water Well	<ul style="list-style-type: none"> 6" Steel Casing Well within existing well house Galvanized Steel water main 4 jug fillers and service to three (3) water services to buildings 	<ul style="list-style-type: none"> Campground Guests Campground Employees 	<ul style="list-style-type: none"> Type II - 190 feet deep - 75 GPM - Six (6) 119 pressure tanks Galvanized water main Jug fillers with fountains 	<ul style="list-style-type: none"> Good water quality - at maximum capacity during heavy use - no redundancy in system 	<ul style="list-style-type: none"> Remote from Lakeshore Campground - Good isolation distance for water quality Dead ends in system may compromise water quality 	<ul style="list-style-type: none"> Recommend to replace existing pump and tanks with VFD; replace existing water distribution network; and consider implementation of new VFD water well for redundancy
Sanitary Sewer Lift System	<ul style="list-style-type: none"> Sanitary Lift Station & Treatment Plant 	<ul style="list-style-type: none"> Campground Guests Campground Employees 	<ul style="list-style-type: none"> Two (2) wetwell mounted 168,000 treatment capacity 	<ul style="list-style-type: none"> System recently upgraded in 2001 - no capacity or performance issues noted 	<ul style="list-style-type: none"> Centrally located within existing Lakeshore Campground. Systems served must be in close proximity 	<ul style="list-style-type: none"> Depth of existing sump pit restricts distance the lift station can serve existing buildings
Sanitation Station	<ul style="list-style-type: none"> One (1) sanitation station w/ one dump port, one (1) potable drinking water fill, and one (1) non-potable drinking fill 	<ul style="list-style-type: none"> Campground Guests 		<ul style="list-style-type: none"> System inadequate to service more than users at a time. Stacking distances a problem. Proximity to existing campsites a problem. 	<ul style="list-style-type: none"> Close proximity to units 142 & 143 	<ul style="list-style-type: none"> Relocated facility is recommended to accommodate greater stacking distances and improved facilities for users
Site Drainage	<ul style="list-style-type: none"> One (1) catch basin with drainage field. Culverts & drainage swales 	<ul style="list-style-type: none"> Campground 	<ul style="list-style-type: none"> See topographic survey 	<ul style="list-style-type: none"> Site is poorly drained with significant ponding during & after rain events 		<ul style="list-style-type: none"> Leaching basins interconnected with a subgrade drainage system is recommended
ADA Compliance	<ul style="list-style-type: none"> Verify in field. One (1) ADA picnic table observed 	<ul style="list-style-type: none"> Campground Guests with accessibility related issues 	<ul style="list-style-type: none"> 2% of campsites 	<ul style="list-style-type: none"> Level site required 	<ul style="list-style-type: none"> Close proximity to proposed facilities. Accessible route identified 	
Pavement Systems	<ul style="list-style-type: none"> Existing 10 foot wide HMA paved road; sidewalks to existing buildings; paved parking 	<ul style="list-style-type: none"> Campground Guests Campground Employees 	<ul style="list-style-type: none"> See topographic survey 	<ul style="list-style-type: none"> Poor site drainage is causing a deteriorated pavement condition; thickness of HMA is substandard; aggregate base needed 		



24' TWO WAY PAVED ROAD

MEP

Program Element	ITEM/ISSUE	Users	Types and Quantities	Performance Standards (Quality of Elements Via Materials and/or Function)	Patterns (Physical Relationships) Proximity	Special Notes
Electrical	• Electric Service	• ALL	• 7200 volt utility owned distribution system. • Grade mounted and/or pole mounted step down transformers.	• Transformers by utility company	• Locate as close to load as possible	• New pad mounted transformers will be located by utility company as required to provide service to new park electric loads
Power	• Distribution • Convenience power	• Campground Guests • Maintenance Staff • Facilities • Campground Guests • Maintenance Staff	• Shower Toilet Buildings • RV power distribution • Pump Stations • 120 volt convenience power available at comfort station/rest rooms	• Typically circuit breaker type panels, NEMA 3R outdoors, underground wiring in conduit • NEC conformance, GFCI		• Powered from utility transformers
Recreational Vehical Power		• Campground Guests	• 120 volt, 30 amp and/or 50 amp		• Located at RV Campground location	• Power purchased at pay station
Interior Lighting	• Building	• Campground Guests	• Compact fluorescent, linear fluorescent or LED sources.			• Daylight and occupancy sensors will be used to automatically control lights.
Exterior Lighting	• Selected locations	• Campground Guests	• Compact fluorescent, linear fluorescent or LED sources. • Solar powered bollards considered at remote (non-powered) locations.			• Exterior Lighting will conform with the Dark Sky Designation
Telecommunications	• Telephone Service	• Administrative Useage	• Administration Building			• Upgrade being investigated
Internet	• Satellite (currently)	• Park Staff only	• Limited bandwidth and availability • Exterior Wifi hotspots at limited locations			• Upgrade being investigated
Wi-Fi		• Campground Guests • Campground Employees				• Internet Service Providers being investigated.



Vehicular Circulation

Program Element	Existing	Users	Types and Quantities	Performance Standards (Quality of Elements Via Materials and/or Function)	Patterns (Physical Relationships) Proximity	Special Notes
Contact Station	<ul style="list-style-type: none"> • 6 Parking Spaces • 1 Accessible Parking Space • +/- 340 L.F. Stacking Zone 	<ul style="list-style-type: none"> • Campground Guests • Check-In Point • All Vehicles 	<ul style="list-style-type: none"> • All Rec. Vehicle Types 	<ul style="list-style-type: none"> • Opportunities for Secured Vehicle Parking 	<ul style="list-style-type: none"> • Central to Campsites 	<ul style="list-style-type: none"> • Additional Stacking Consideration
Campground Entry	<ul style="list-style-type: none"> • 1 Primary Access to Lakeshore Campground • 1 Primary Access to The Pines • 1 Primary Access to Day-Use Areas 	<ul style="list-style-type: none"> • Campground Patrons • Ranger Vehicles • Service Vehicles • Emergency Vehicles 	<ul style="list-style-type: none"> • Paved Roadway 	<ul style="list-style-type: none"> • Geometric Consideration For Large Vehicles • Consider creating a four way stop 	<ul style="list-style-type: none"> • Multiple Entry Points • Limited Entry Points 	<ul style="list-style-type: none"> • How can we integrate walkers and motor vehicles while keeping all users safe?
Sanitation Station	<ul style="list-style-type: none"> • Two Lanes • Two Entrances and Exits 	<ul style="list-style-type: none"> • RV's / Campers • Maintenance Vehicles 	<ul style="list-style-type: none"> • Paved Roadway 	<ul style="list-style-type: none"> • One Way 	<ul style="list-style-type: none"> • Close to Pump Station • Consider moving to the east of maintenance 	<ul style="list-style-type: none"> • Needs to be conveniently located so it can be accessed by campers
Campground Roads	<ul style="list-style-type: none"> • 2 Existing Loops (East and West Lakeshore) 		<ul style="list-style-type: none"> • 10' Wide 	<ul style="list-style-type: none"> • Uneven, causes drainage issues • Redesign turn radius to fit all vehicle types 		<ul style="list-style-type: none"> • Consider Cut-Throughs • Chip Seal Surface • Use natural elements (boulders, vegetation, etc.) to prevent campers from entering prohibited areas • How can we integrate walkers and motor vehicles while keeping all users safe?



Pedestrian Circulation

Program Element	Existing	Users	Types and Quantities	Performance Standards (Quality of Elements Via Materials and/or Function)	Patterns (Physical Relationships) Proximity	Special Notes
Contact Station	<ul style="list-style-type: none"> • (1) • Sidewalk 	<ul style="list-style-type: none"> • All 	<ul style="list-style-type: none"> • Concrete 		<ul style="list-style-type: none"> • Entry(s) 	
Campground Entry	<ul style="list-style-type: none"> • Road used as pedestrian walkway 	<ul style="list-style-type: none"> • Campground Guests • Campground Employees 	<ul style="list-style-type: none"> • Paved Road 	<ul style="list-style-type: none"> • Reinforced pavement for trash 		<ul style="list-style-type: none"> • How can we integrate walkers and motor vehicles while keeping all users safe? • Add a walkway for campers from The Pines to use when crossing to The Lakeshore Campground
Campgrounds	<ul style="list-style-type: none"> • 2 existing pathways leading to bathhouses (1 in each campground) • Roads are used as pedestrian pedestrian walkways 	<ul style="list-style-type: none"> • Campground Guests • Campground Employees 	<ul style="list-style-type: none"> • Woodchip Pathways with Wooden Railings 	<ul style="list-style-type: none"> • ADA • Add designated walkways 	<ul style="list-style-type: none"> • Add cut throughs so campers can avoid passing through other campsites to access the beach 	<ul style="list-style-type: none"> • How can we integrate walkers and motor vehicles while keeping all users safe?
Beachfront	<ul style="list-style-type: none"> • West Lakeshore • East lakeshore • Day-Use Beach 	<ul style="list-style-type: none"> • All 	<ul style="list-style-type: none"> • The west, and east beaches are sandy, but the Day-Use beach is increasingly rocky as you progress farther east 	<ul style="list-style-type: none"> • Add designated walkways 	<ul style="list-style-type: none"> • Add designated walkways to the beachfront 	<ul style="list-style-type: none"> • Consider using a Brock Dock system which is more attractive than mobi mats • Create accessible access points to the water's edge (multiple access points at each campground)
Pines Connectivity	<ul style="list-style-type: none"> • 1 walking path near the west end of The Pines Campground • Pines Campers walk Swamp Line Road to go to the beach at The lakeshore Campground 	<ul style="list-style-type: none"> • Campground Guests • Campground Employees 				<ul style="list-style-type: none"> • Consider closing off the western footpath • Consider realigning road • Consider four-way stop



Signage

Program Element	Existing	Users	Types and Quantities	Performance Standards (Quality of Elements Via Materials and/or Function)	Patterns (Physical Relationships) Proximity	Special Notes
Beach Signs	<ul style="list-style-type: none"> • Beach Kiosk • Closed Signs • Flag Signal System 	<ul style="list-style-type: none"> • Campground Guests 	<ul style="list-style-type: none"> • 1 Large Kiosk • Metal Post Signs • Wooden Post Signs 		<ul style="list-style-type: none"> • Place on new designated beach trails / boardwalks 	<ul style="list-style-type: none"> • Consider redesigning with unifying elements • Use DNR standards
Directional Signs	<ul style="list-style-type: none"> • To Amphitheater • To Drinking Water • To Campsites • Wayfinding Signs 	<ul style="list-style-type: none"> • Campground Guests • Emergency Vehicles 	<ul style="list-style-type: none"> • Individual Large Wooden Signs • DNR Style Wayfinding Signs 			
Educational Signs	<ul style="list-style-type: none"> • Coastal Vegetation • Lake Michigan • Piping Plover • Michigan's Natural Heritage • Michigan's Magnificent Shoreline 	<ul style="list-style-type: none"> • Campground Guests 	<ul style="list-style-type: none"> • Individual Large Wooden Signs 			
Area Signs	<ul style="list-style-type: none"> • Campsite Number Signs • Headquarters Sign • Recycling Sign • Garden Sign 	<ul style="list-style-type: none"> • Campground Guests 	<ul style="list-style-type: none"> • Metal Signs • Wooden Signs 			
Rule Signs	<ul style="list-style-type: none"> • No Parking • Drinking Fountain • No Bikes • No Washing Clothes / Dishes • No Glass or Animals • Recreation Passport / Dogs 	<ul style="list-style-type: none"> • Campground Guests 	<ul style="list-style-type: none"> • Metal Signs • Wooden Signs • Paper Signs 			
Traffic Signs	<ul style="list-style-type: none"> • 5 MPH • Slow 	<ul style="list-style-type: none"> • Campground Guests 	<ul style="list-style-type: none"> • Sandwich Board • Metal Sign 			
Trail Signs	<ul style="list-style-type: none"> • 10K Finish • Trail Map • Walkway 	<ul style="list-style-type: none"> • Campground Guests 	<ul style="list-style-type: none"> • Wooden Signs 			
Instructional Signs	<ul style="list-style-type: none"> • Emergency telephone numbers • Registration Sign • Fish Guts Only 	<ul style="list-style-type: none"> • Campground Guests 	<ul style="list-style-type: none"> • Metal Signs • Wooden Signs • Paper Signs 			
Miscellaneous Signs	<ul style="list-style-type: none"> • Events Sign • Weather • Green Initiative • Trail Numbers • Off duty Sign 	<ul style="list-style-type: none"> • Campground Guests 	<ul style="list-style-type: none"> • Kiosks • Metal Signs • Wooden Signs • Paper Signs 			

Amenities

Program Element	Existing	Users	Types and Quantities	Performance Standards (Quality of Elements Via Materials and/or Function)	Patterns (Physical Relationships) Proximity	Special Notes
Bike Racks	<ul style="list-style-type: none"> • 1 at Contact Station 	<ul style="list-style-type: none"> • Campground Bikers • Regional Trail Users 	<ul style="list-style-type: none"> • 1 Metal Portable Bike Rack 		<ul style="list-style-type: none"> • Consider Multiple Locations 	
Picnic Areas (Picnic Tables) (Beachfront)		<ul style="list-style-type: none"> • All 			<ul style="list-style-type: none"> • Place on beachfront • Large Group Picnic Table 	<ul style="list-style-type: none"> • Consider adding shade elements so users can escape the sun • Good location for parents to sit while still being able to watch their children
Kayak / Canoe Racks (Beachfront)		<ul style="list-style-type: none"> • All 			<ul style="list-style-type: none"> • Consider placing at trail entries to the beach 	
Fire Pits		<ul style="list-style-type: none"> • All 			<ul style="list-style-type: none"> • Place in the central core 	
Benches		<ul style="list-style-type: none"> • All 			<ul style="list-style-type: none"> • Place in the core and on the beach 	
Fixed Board Games		<ul style="list-style-type: none"> • All 			<ul style="list-style-type: none"> • Place in the central core 	
Dog Park		<ul style="list-style-type: none"> • Pet Owners 			<ul style="list-style-type: none"> • Consider placing the dog area off of the beach 	<ul style="list-style-type: none"> • Consider creating specific locations for dogs to be located • Consider using a dog run instead of dog friendly campsites



Alternative Campsites

Program Element	Existing	Users	Types and Quantities	Performance Standards (Quality of Elements Via Materials and/or Function)	Patterns (Physical Relationships) Proximity	Special Notes
Group Camping	<ul style="list-style-type: none"> Any group of 5 or more campsites 	<ul style="list-style-type: none"> Large groups of campground guests 			<ul style="list-style-type: none"> Consider separating group campers from the other campground users 	<ul style="list-style-type: none"> A large group could consist of up to 50 campers Groups are made up of no less than 5 campsites
Walk-In Sites	<ul style="list-style-type: none"> All sites 	<ul style="list-style-type: none"> Campground Guests 	<ul style="list-style-type: none"> Tents Yurts Decks 		<ul style="list-style-type: none"> Consider placing where Day-Use area is currently located Consider placing in a more remote and isolated area 	
Tent	<ul style="list-style-type: none"> All sites 	<ul style="list-style-type: none"> Campground Guests 				
Dog Sites	<ul style="list-style-type: none"> All sites 	<ul style="list-style-type: none"> Campground Guests with Dogs 				<ul style="list-style-type: none"> Consider dog friendly sites separated from other campers
Cabins	<ul style="list-style-type: none"> All sites 	<ul style="list-style-type: none"> Campground Guests 				<ul style="list-style-type: none"> Consider using mini-cabins

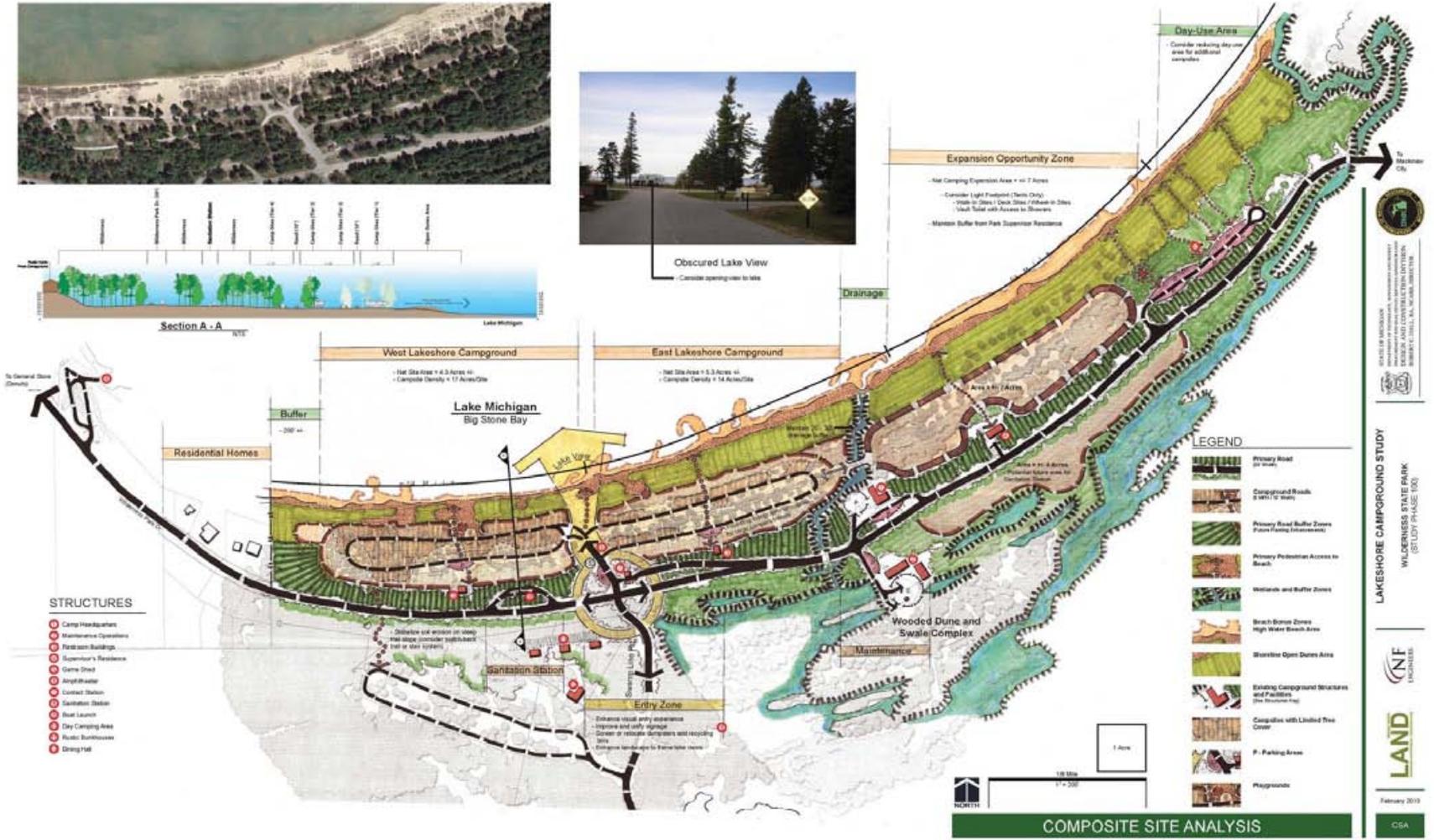
- Old School / New School
- Public Waterfront Site / Beach Picnic Area
- Tier Relationships
- Camper Accoutrements
 - Boat Trailers
 - Eating Tents
 - Awnings
 - Floats
 - Kayaks
 - Etc.



Existing Conditions Overview



Composite Site Analysis



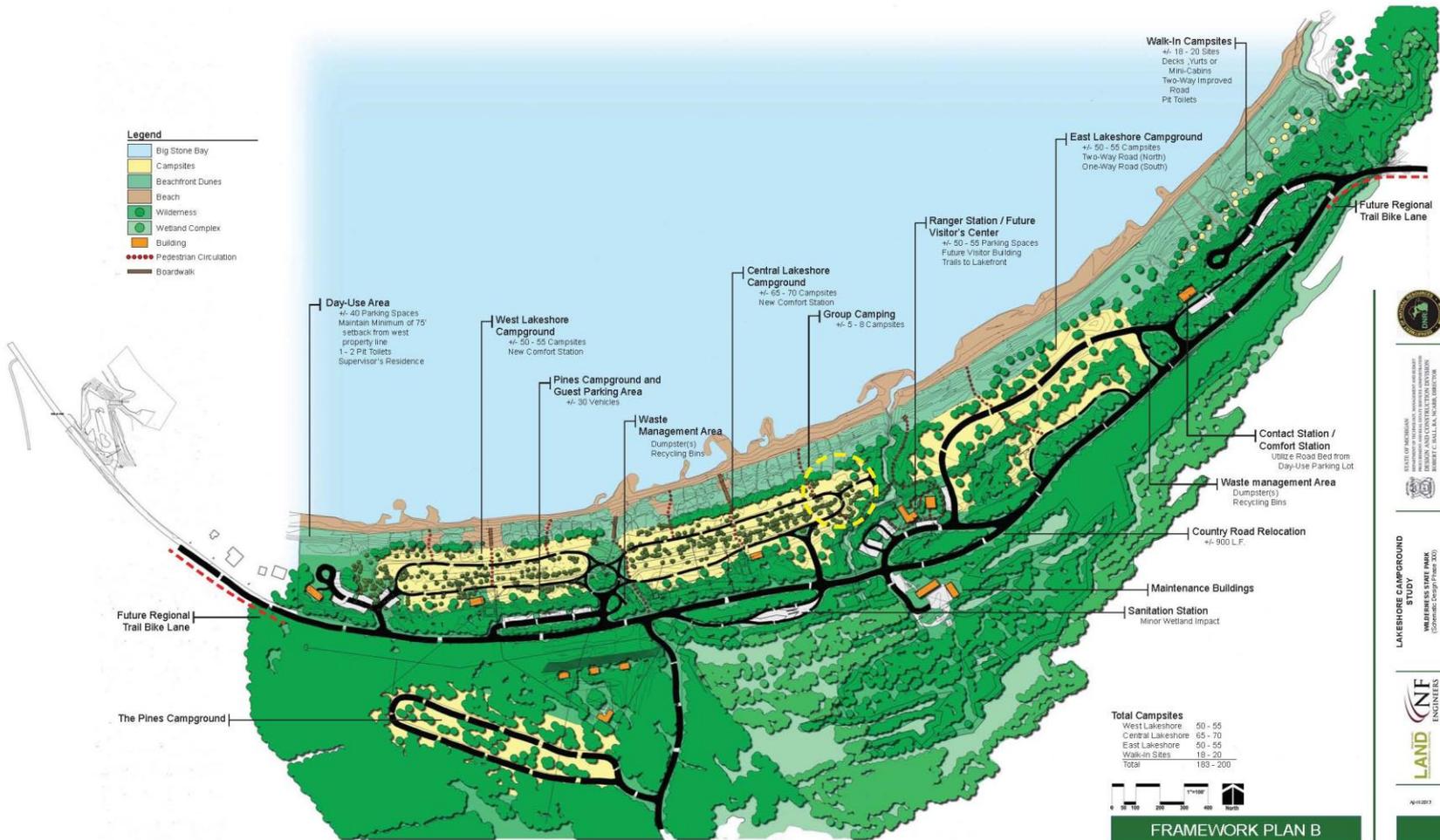
Key Redevelopment Objectives

- Keep It “Wilderness”
- Keep East & West Lakeshore Campsites Familiar
- Maximize Use of Existing Infrastructure
- Design For Current and Future Campers
- Develop Alternative Camping Opportunities (New Clientele and Revenue Generators)
- Balance Public & Client Input with DNR Objectives
- Embrace Environmental Stewardship & Green Initiatives
- Consider Design Details Unique to Wilderness State Park
- Design for Phasing & Consideration of Redevelopment Funding Availability

Concept Study A



Concept Study B



STATE OF MICHIGAN
 DEPARTMENT OF NATURE CONSERVATION
 220 N. ZEEB ROAD
 LANSING, MI 48206-1600

LAKESHORE CAMPGROUND
 STUDY
 NATURE CONSERVATION
 CONSULTING GROUP (PC) INC.

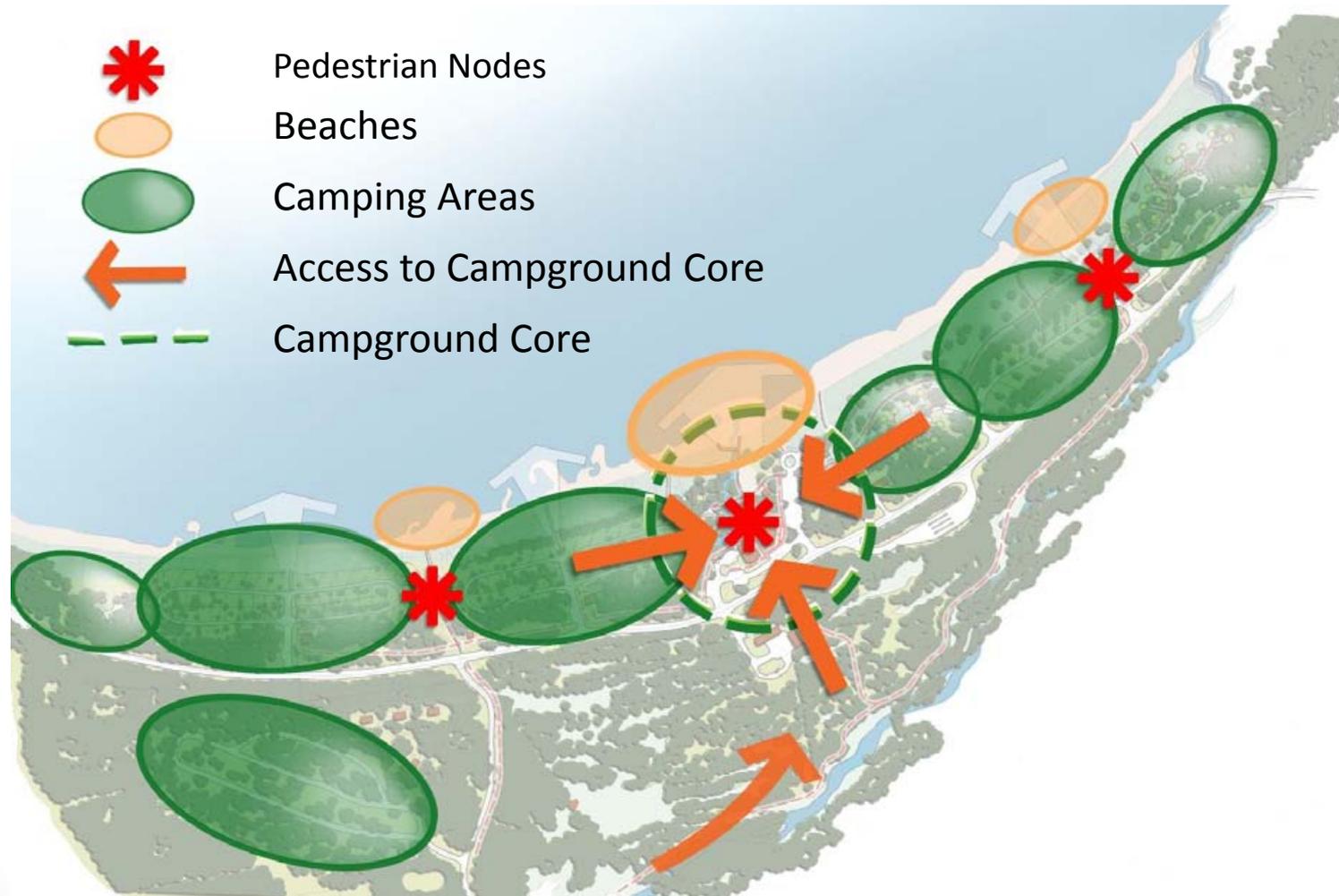


APR 2017

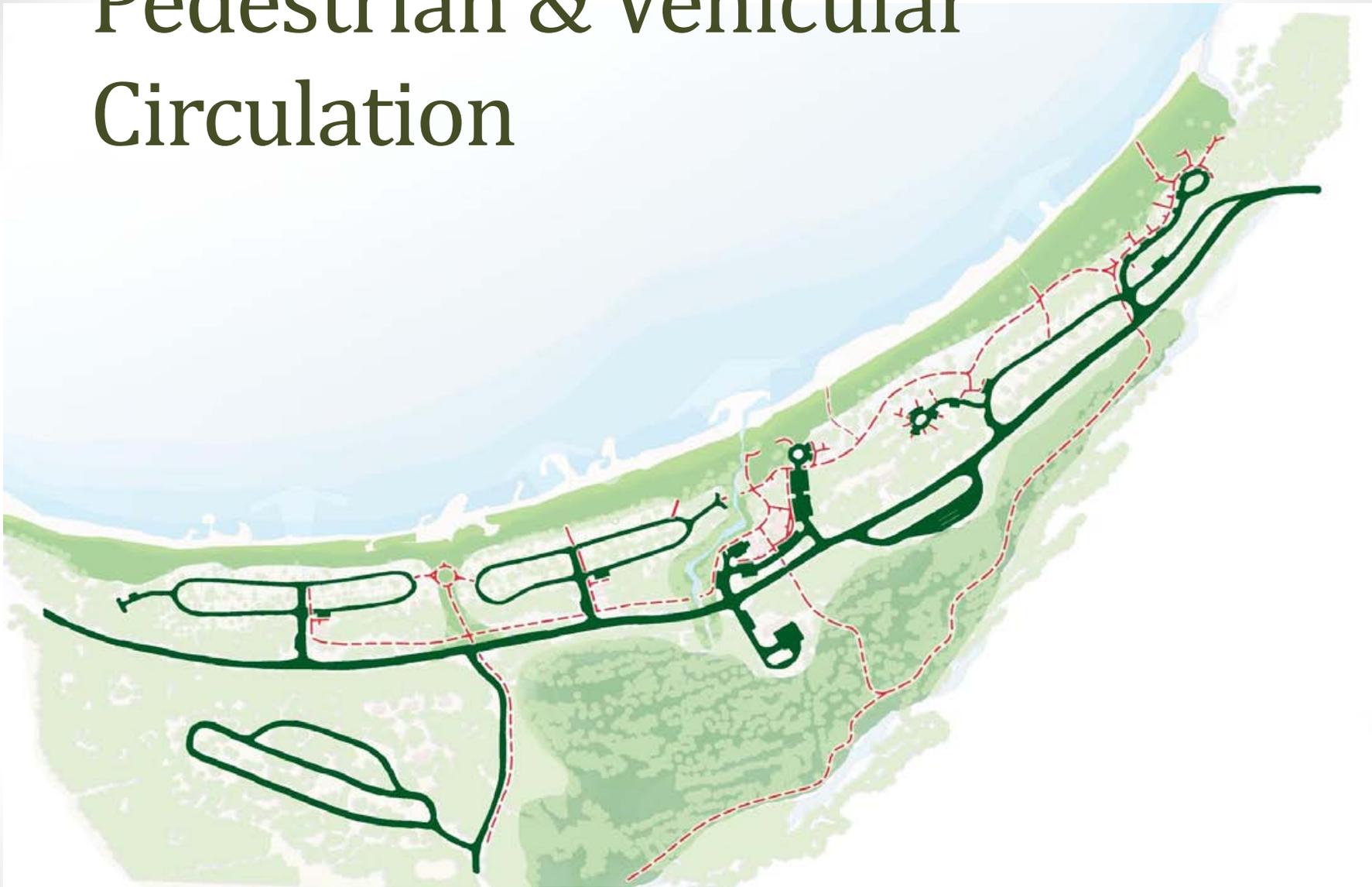
Redevelopment Concept Plan



Organizational Diagram



Pedestrian & Vehicular Circulation



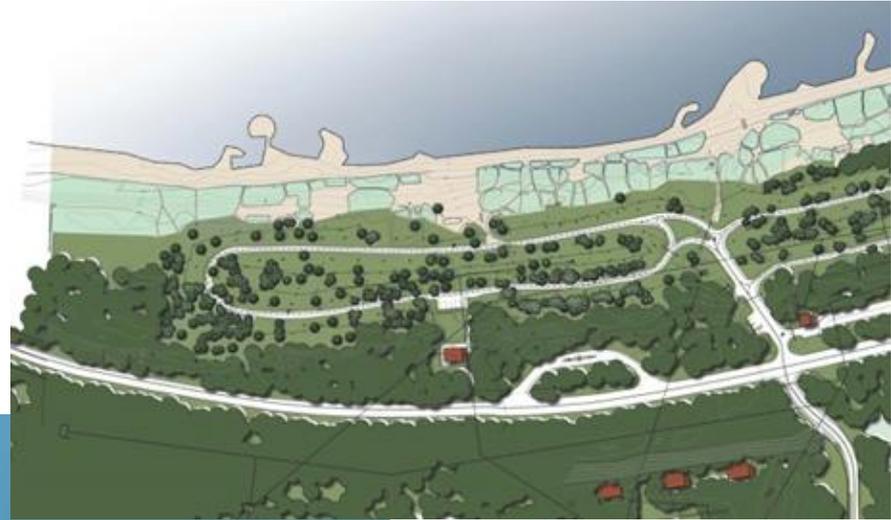
West Lakeshore Campground

Existing 75 Sites

Proposed 69 Sites

- 2 Mini Cabins
- Exterior 60 Degree Back-In Sites
- Interior 90 Degree Sites
- Campsites Backing to Playground

Controlled Beach Access Points



Pedestrian Zone

- Play Area
- Recreation Area

East lakeshore Campground

Existing 75 Sites

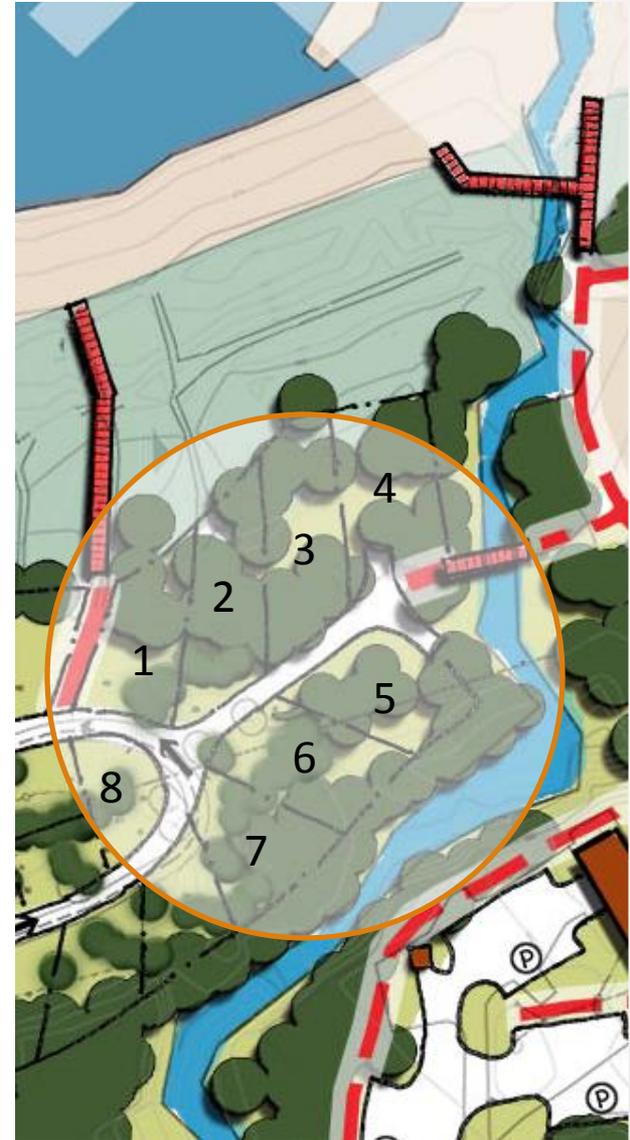
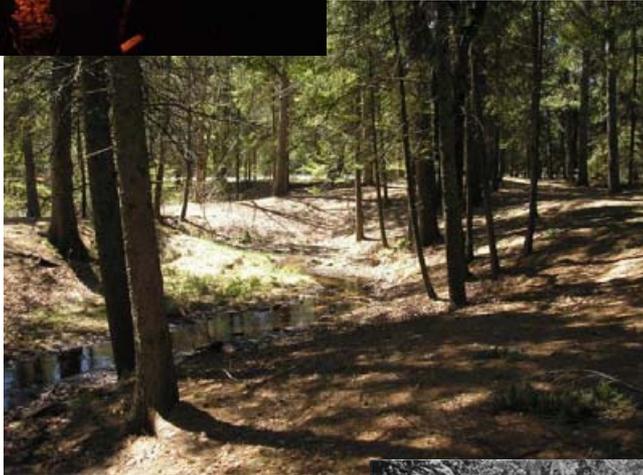
Proposed 62 Sites

- Exterior 60 Degree Back-In Sites
- Interior 90 Degree Sites

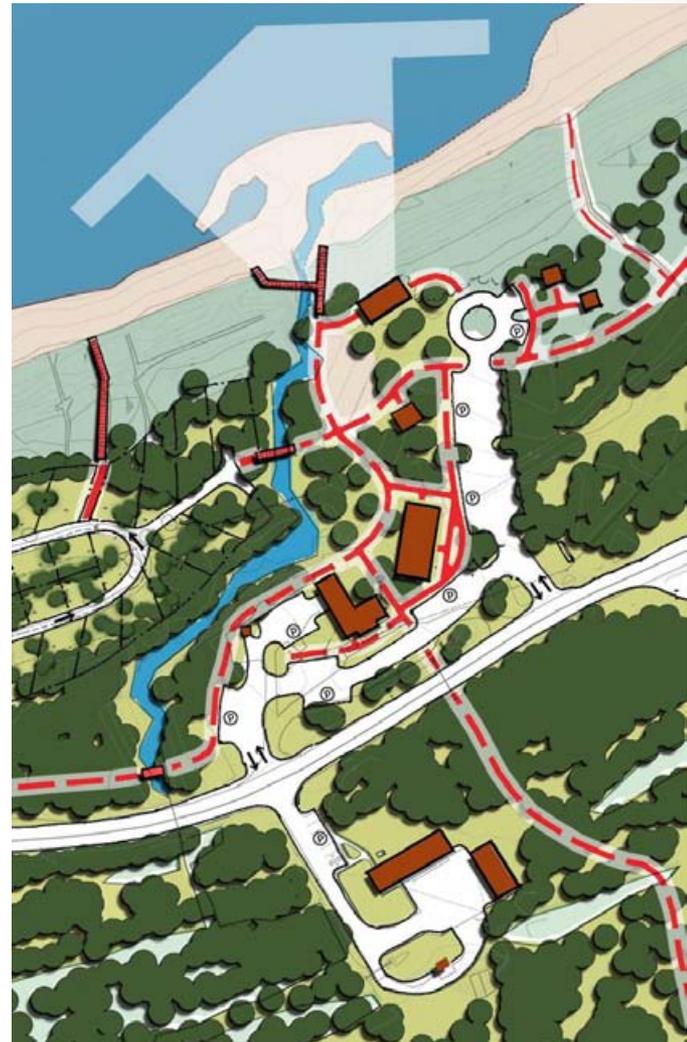
Contact Station Repurposed



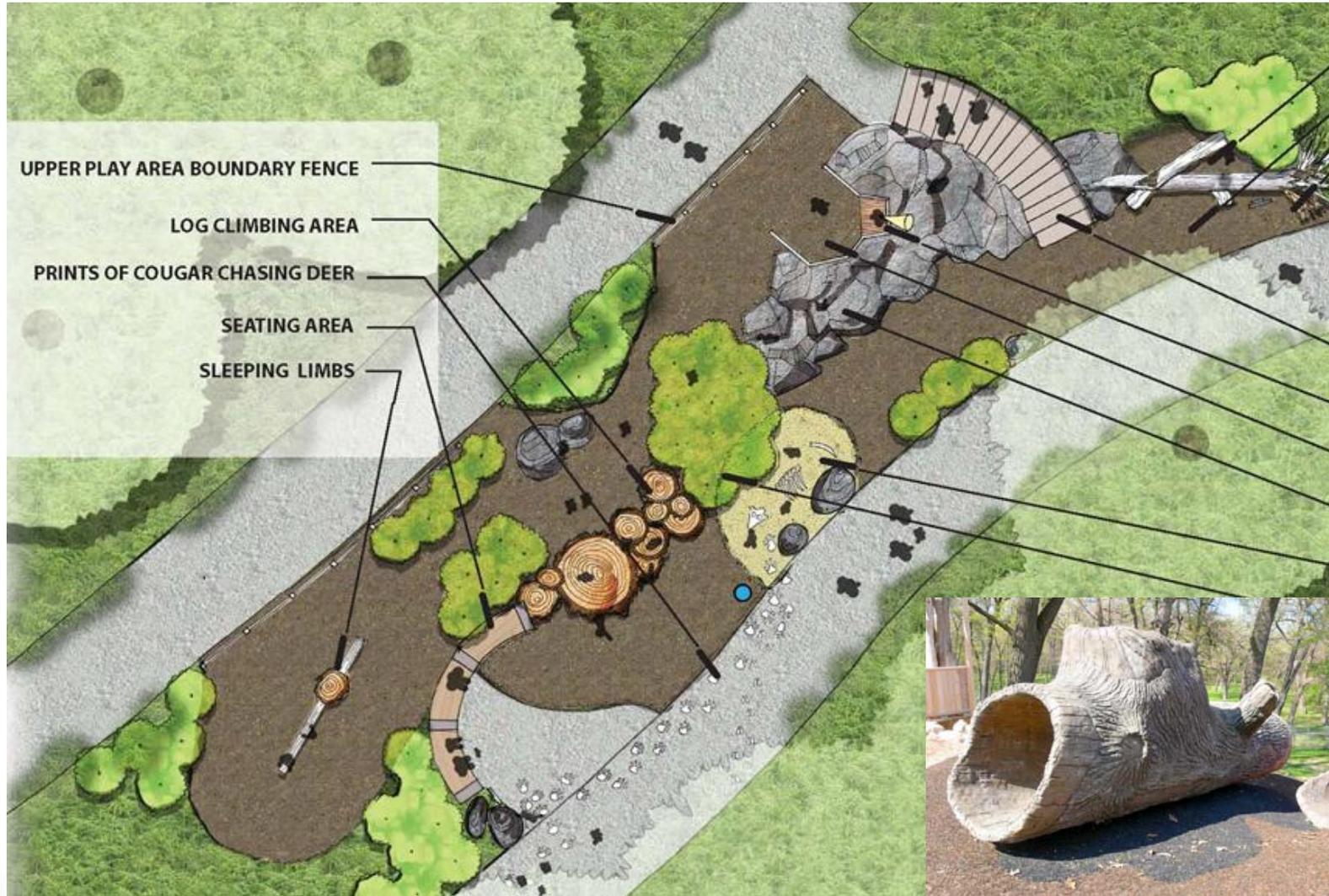
Group Campground



Campground Core



Nature Based Playground



Informational Kiosk



Alternative Campground A



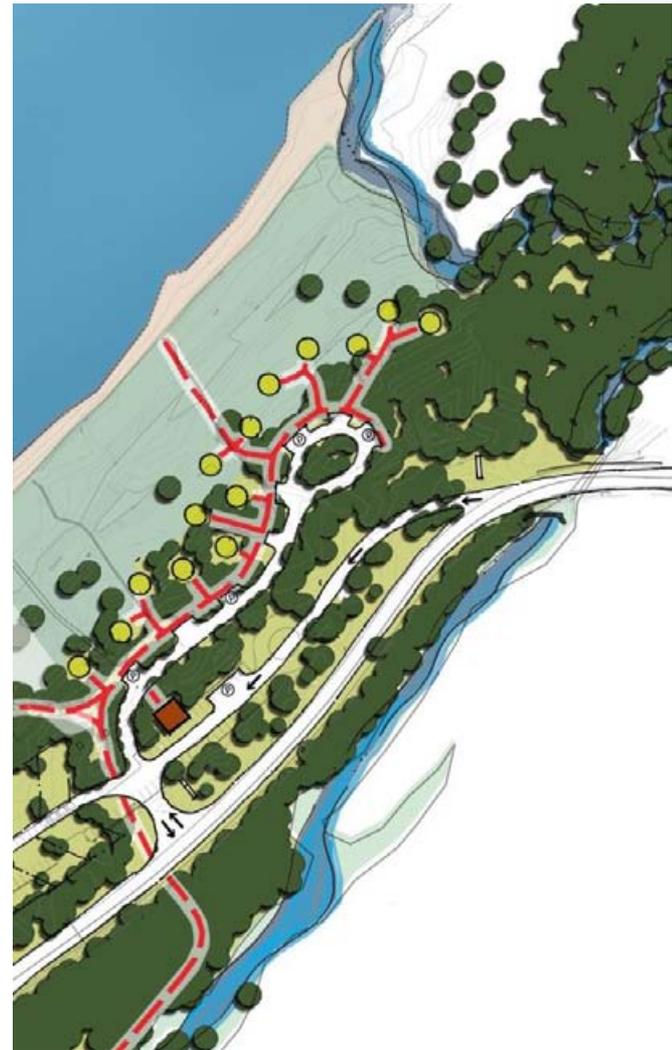
The Bluffs Campground

20 Back-In Sites

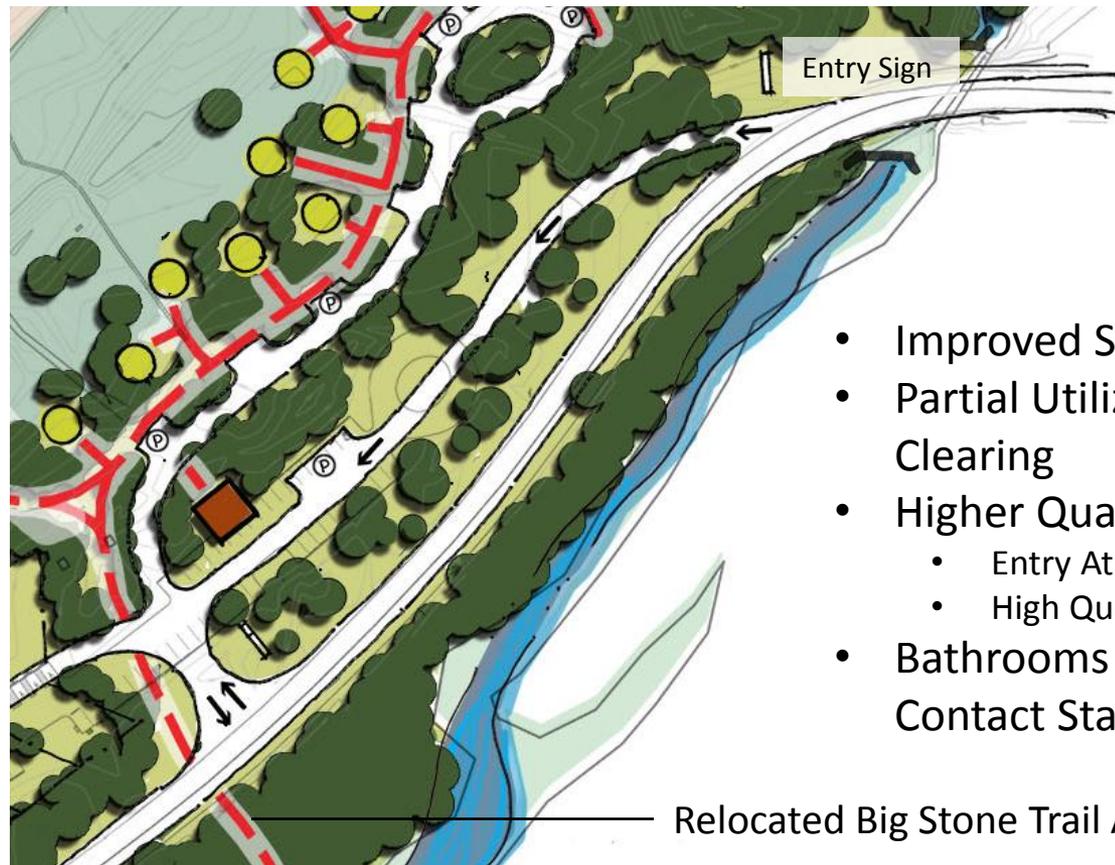
- Accommodate Larger Campers & Trailers



Alternative Campground B



Contact Station



- Improved Stacking Distance
- Partial Utilization of Day-Use Road Clearing
- Higher Quality Entry Experience
 - Entry At Creek Crossing
 - High Quality Cedar Trees
- Bathrooms Integrated with Contact Station for Walk-In Sites

Relocated Big Stone Trail Access

Relocated Sanitation Station



- Relocated South & East (Not Adjacent to Campsites)
- Improved Stacking
- Additional Cleanout / Water Fill Stations
- New Infrastructure

Environmental Restoration / Preservation



Site Amenities

- Kayak / Paddleboard Storage
- Controlled Beach Access Points
- Foot Washes
- Dog Park
- Improved Signage System



Wilderness Signage



Next Steps / Timeline

- *2013 Camping Season*
 - Share Redevelopment Plan with Users and Public
 - On Website
 - At Campground
 - Collect User / Public Comments
- Concept Plan Refinement
- Design Development



Discussion

