Town of Brewster Sea Camps Pond Parcel Discovery Analysis

March 29, 2023

REED-HILDERBRAND

WXY



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Introduction

The Sea Camps closed in November 2020 after operating for nearly 100 years as a children's camp. Since 1922, more than 17,000 campers attended the camps, which offered a variety of sports and art activities. Following the closure, the camp moved to sell its two parcels; the Bay Parcel and the Long Pond Parcel.

In September of 2021, 1,500 Brewster residents voted to near unanimously approve the town's purchase of the camp's 121 acres. This was the largest number of town meeting voters to participate in the town's history and the town's largest purchase.

The acquisition of these parcels offers the town a rare opportunity to expand community resources. Both parcels were in the top four largest privately owned properties in Brewster; in particular, the pond parcel was the largest privately owned property in town and one of largest undeveloped parcels remaining in Cape Cod.

The Town of Brewster hired Reed Hilderbrand and the design team in November 2022 to provide site analysis and develop comprehensive plans for both parcels. The planning process is expected to be 12 months long and includes monthly committee meetings with stakeholders and representatives of the community, and six community forums.

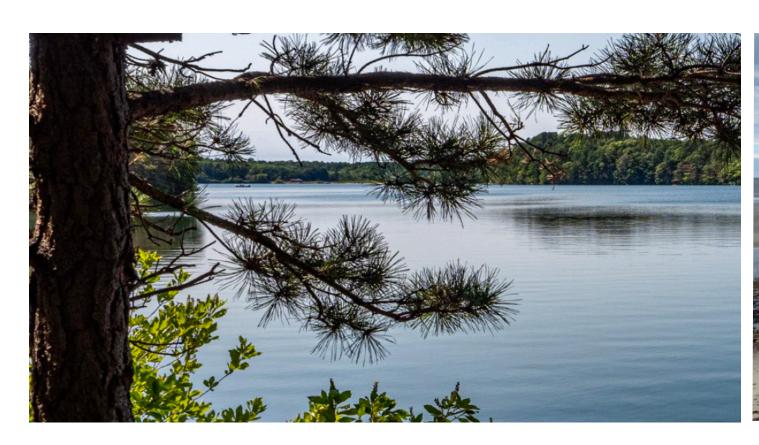
The following document summarizes the site analysis completed during the discovery phase. The analysis, opportunities and constraints identified in this document will inform the plans developed for the parcels in the upcoming Visioning and Comprehensive Planning phases.





HISTORY

These places were part of the ancestral homelands of the Aquinnah Wampanoag and the Mashpee Wampanoag peoples for thousands of years prior to European occupation. The Wampanoag tribes sustainably managed and cared for the Cape's coastal and pond ecosystems which in turn sustained them.





HISTORY

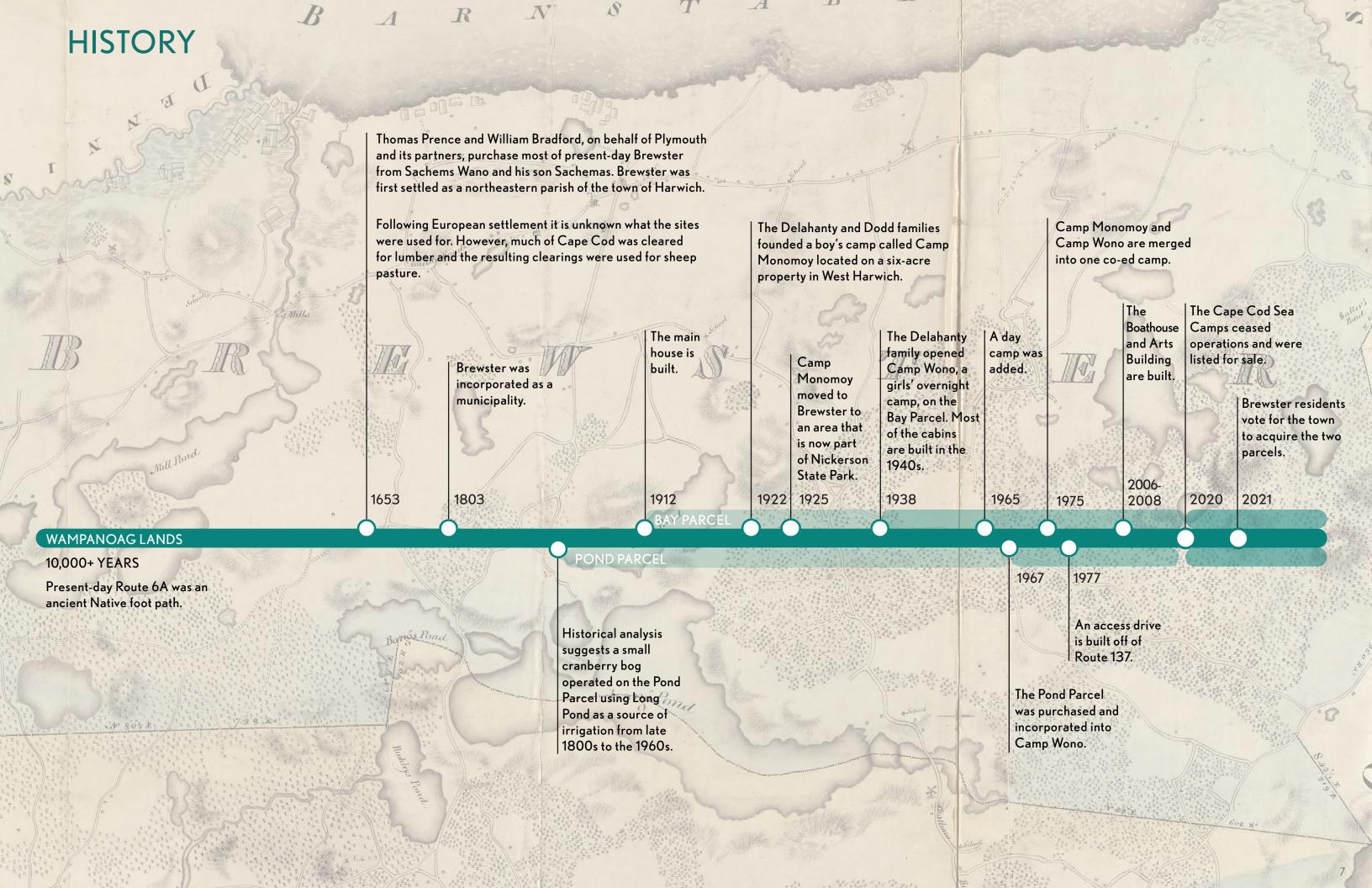
The Cape Cod Sea Camps have been a feature of the Town of Brewster for almost half of it's history — built into the memories and imaginations of many.









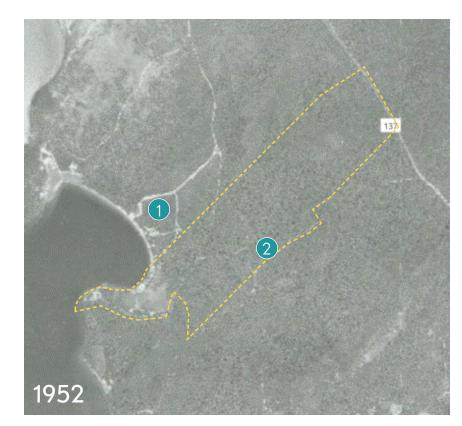


HISTORIC SITE EVOLUTION

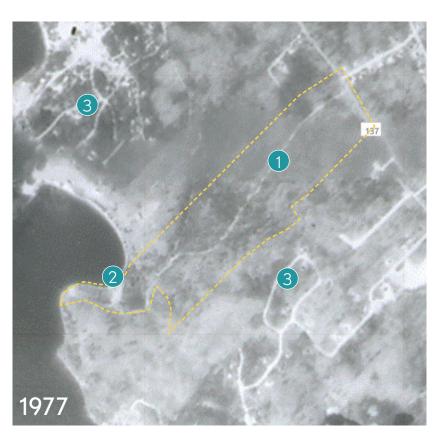
Long Pond Parcel



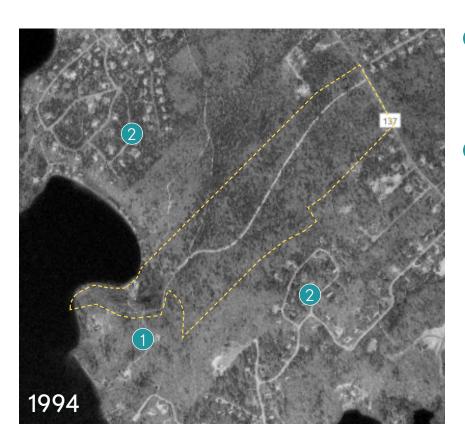
- 1 The only drive access to the parcel is via W.H. Besse Cartway, not directly off of Route 137.
- 2 A drive exists along the centralsouthern edge of the parcel.
- 3 The parcel is surrounded by contiguous woodland.



- 1 Roadways are added northwest of the parcel off of W.H. Besse Cartway.
- 2 The drive along the centralsouthern edge of the parcel has been reforested.



- 1 The access drive off of Route 137 is added for use by the Sea Camps.
- Vegetation around the pond beach area is removed, creating a larger clearing. Small cabins and boat storage are built by the pond clearings.
- 3 Roadways to neighboring residential areas are developed.

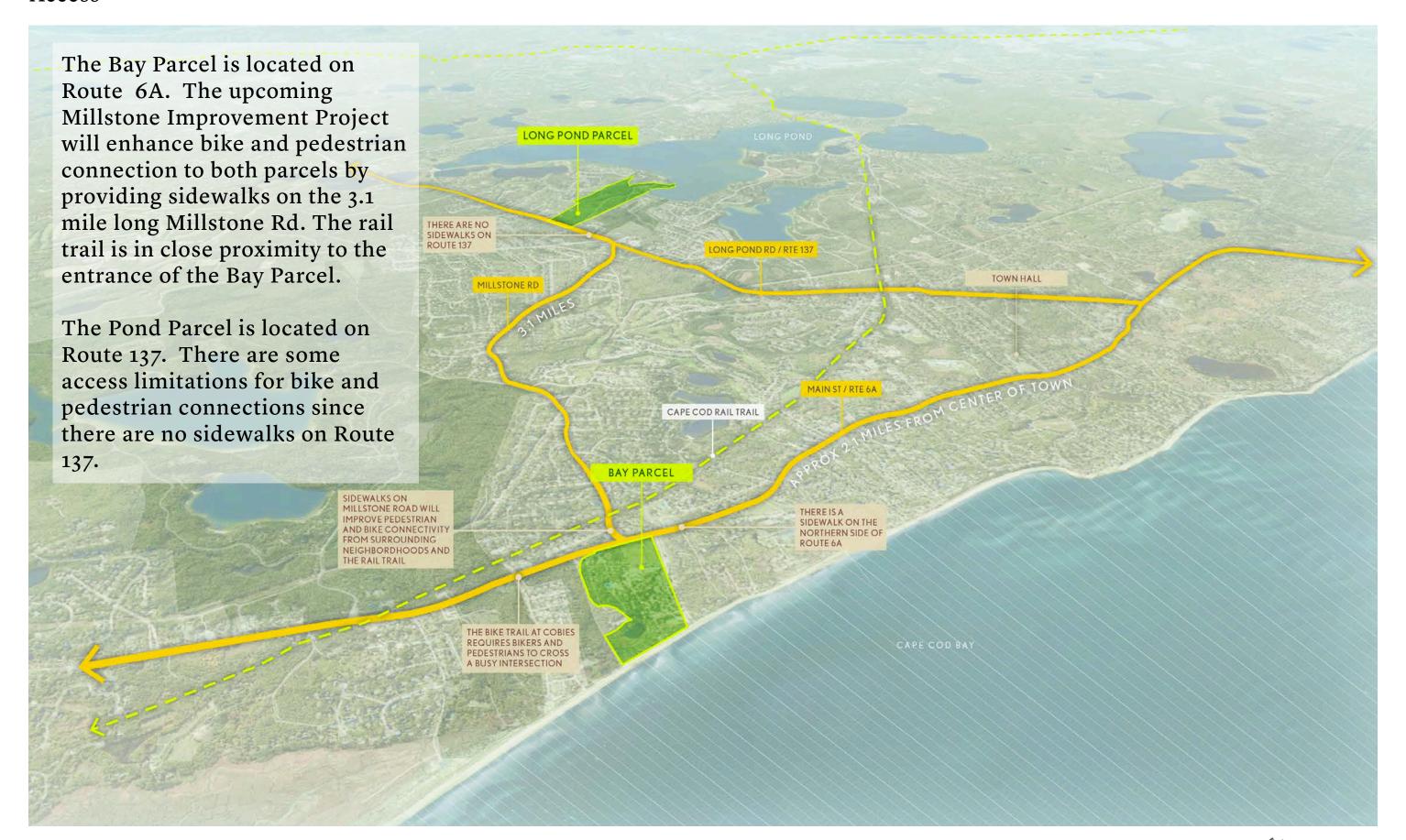


- At the southwest area of the site, residential houses are built south of the property line and accessed through W.H. Besse Cartway.
- 2 Neighboring residential areas become denser.

Set Within an Open Space Network



Access



Relationship to Town Amenities



KEY QUESTIONS GUIDING OUR SITE ANALYSIS

- 1. How will program, access and parking needs be balanced with conservation goals, environmental regulations, and topographic challenges?
- 2. What area or areas are best suited to meet the majority (at least 50%) conservation restriction?
- 3. Where may there be opportunities for building on site (housing, parking, municipal uses, active recreation, or other)? What is the process for evaluating building in the Zone 2 area?
- 4. If housing is a desired use, what density would be appropriate and how will that density be determined by the Town?

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TOPOGRAPHY AND HYDROLOGY

Elevation

The pond parcel's dramatic topography, descending over 75 feet from a high point at Route 137 to a low point at the pond beach, is characterized by steep slopes on both sides of the road and a distinct upland wooded zone with sunken kettle landforms throughout.



SLOPED ACCESS OFF OF DRIVEWAY



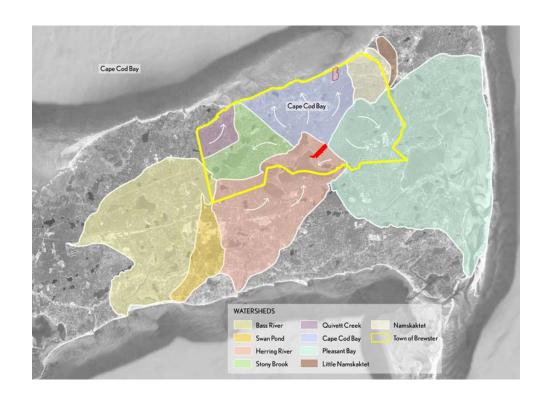
CHARACTER OF ROADS SURROUNDED BY UPLAND WOODS

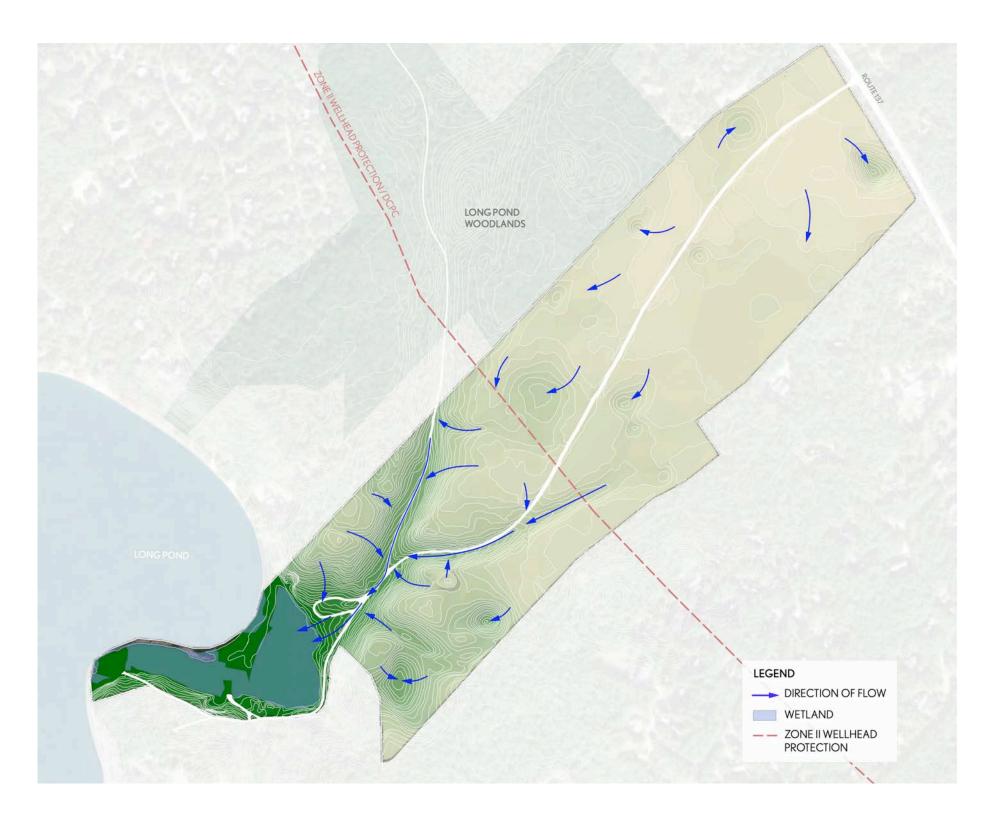


TOPOGRAPHY AND HYDROLOGY

Hydrology

The Pond Parcel is situated in the Herring River watershed. Localized water primarily flows from Route 137 towards the Pond. Because the roads are sunken, water flows from the surrounding steep slopes of the upland areas into the existing roads. The pond edge is characterized by wetlands and existing cranberry bogs.





TOPOGRAPHY AND HYDROLOGY

Slope

The wetlands and open grassy areas by the pond are surrounded by steep slopes. Steep slopes also characterize the middle portion of the parcel while area under 2% slope is located closer to Route 137.



OPEN AREA BY POND SURROUNDED BY UPLAND FOREST



SLOPED TOPOGRAPHY



ECOLOGY Plant communities

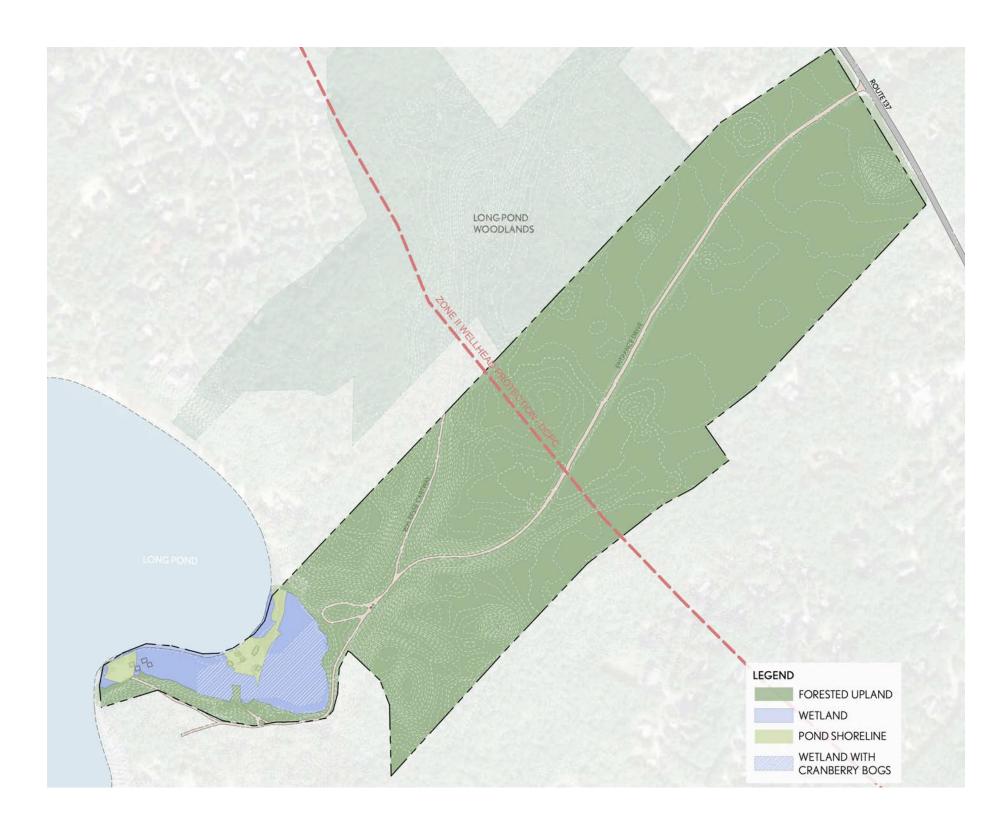
The parcel is composed of upland woodland, wetlands and pond shoreline.

UPLAND WOODLAND



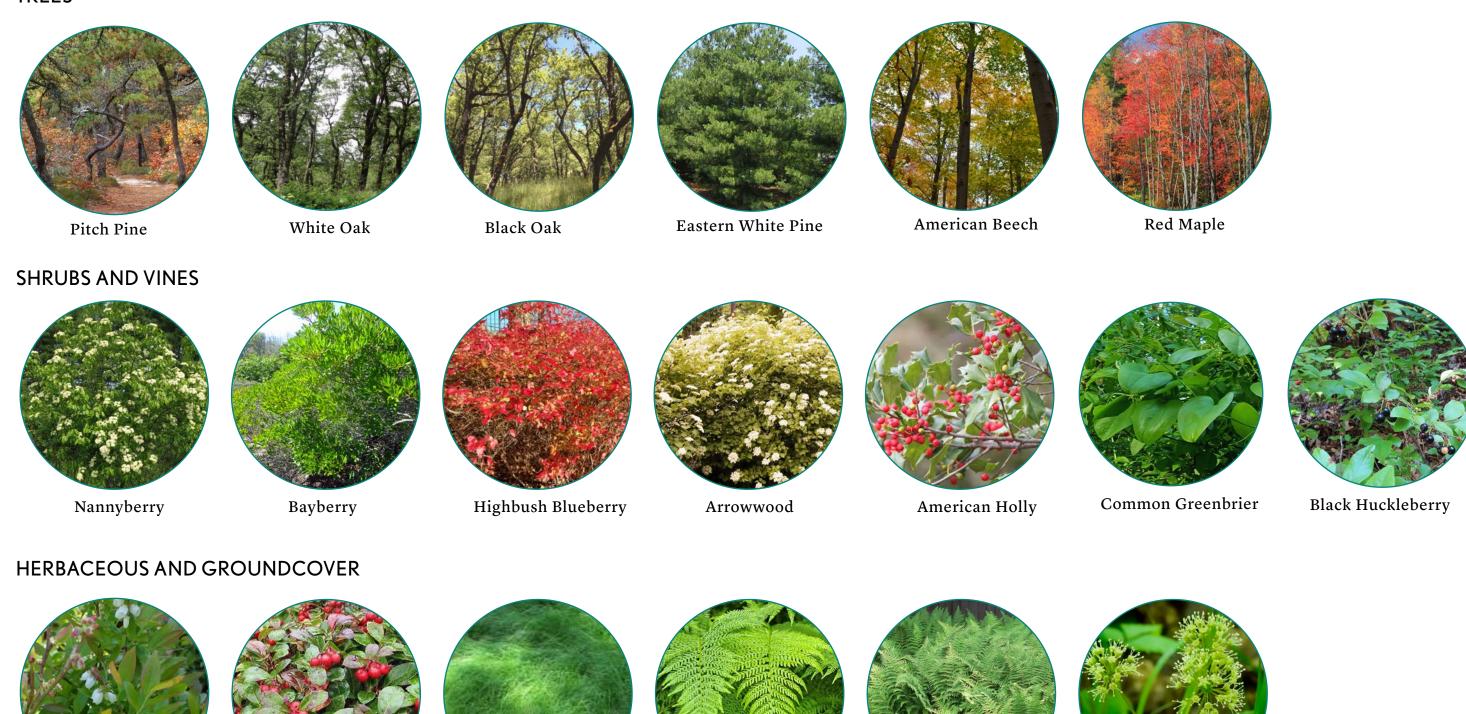
WETLAND AND POND





Forested Upland - Pitch Pine / Oak Forest

TREES



Bracken Fern

Hay-scented Fern

Teaberry

Pennsylvania Sedge

Lowbush Blueberry

Wild Sasparilla

Wetlands and Pond Shoreline

TREES AND SHRUBS



SHRUBS AND VINES



HERBACEOUS AND GROUNDCOVER



Wildlife

Vernal pool habitat may be present within the interior of the wetland providing important habitat for many vertebrate and invertebrate species.

Long Pond provides habitat for a multitude of waterfowl, including migrant and wintering waterfowl.

The property is located within the Brewster Ponds and Woodlands Important Bird Area. MassAudubon surveys indicate significant breeding populations of five regional high conservation priority species, and the presence of the Northern Parula, a state threatened species.



Soils

CARVER SOILS

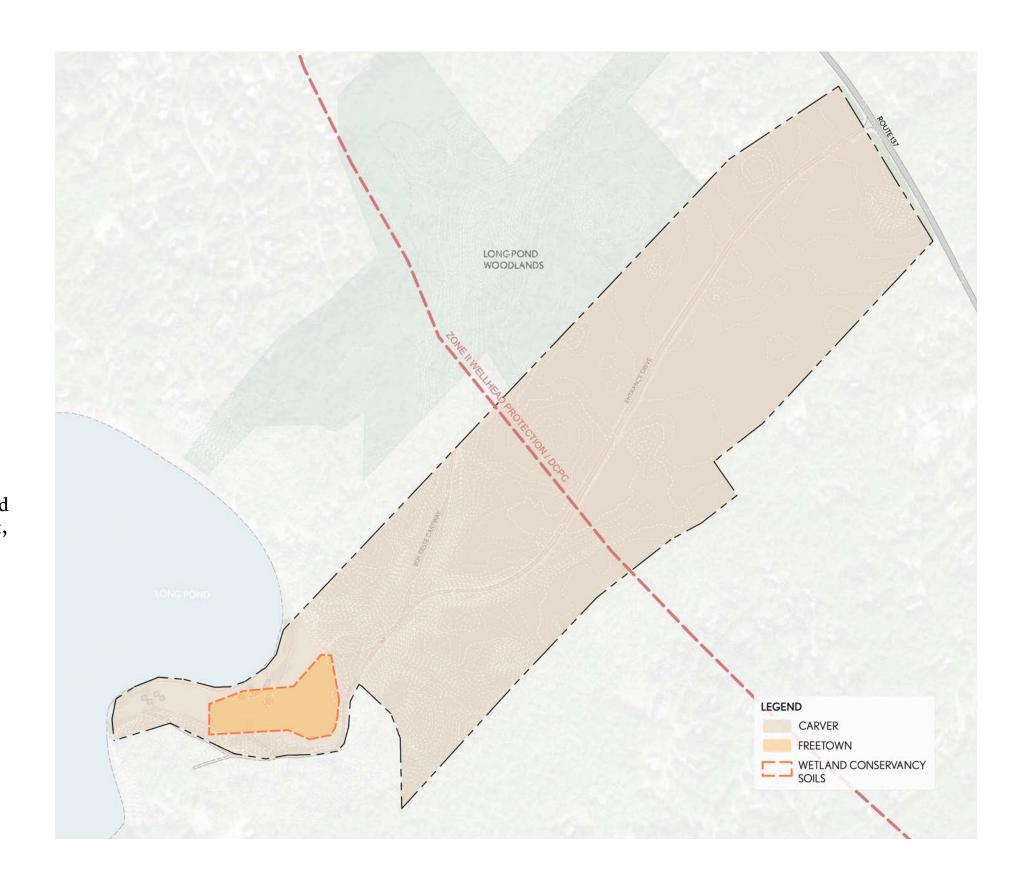
Excessively drained and formed in glaciofluvial deposits of coarse and very coarse sands.

FREETOWN SOILS

Coarse sand soil that is very poorly drained and typically associated with kettles, bogs, or depressions.

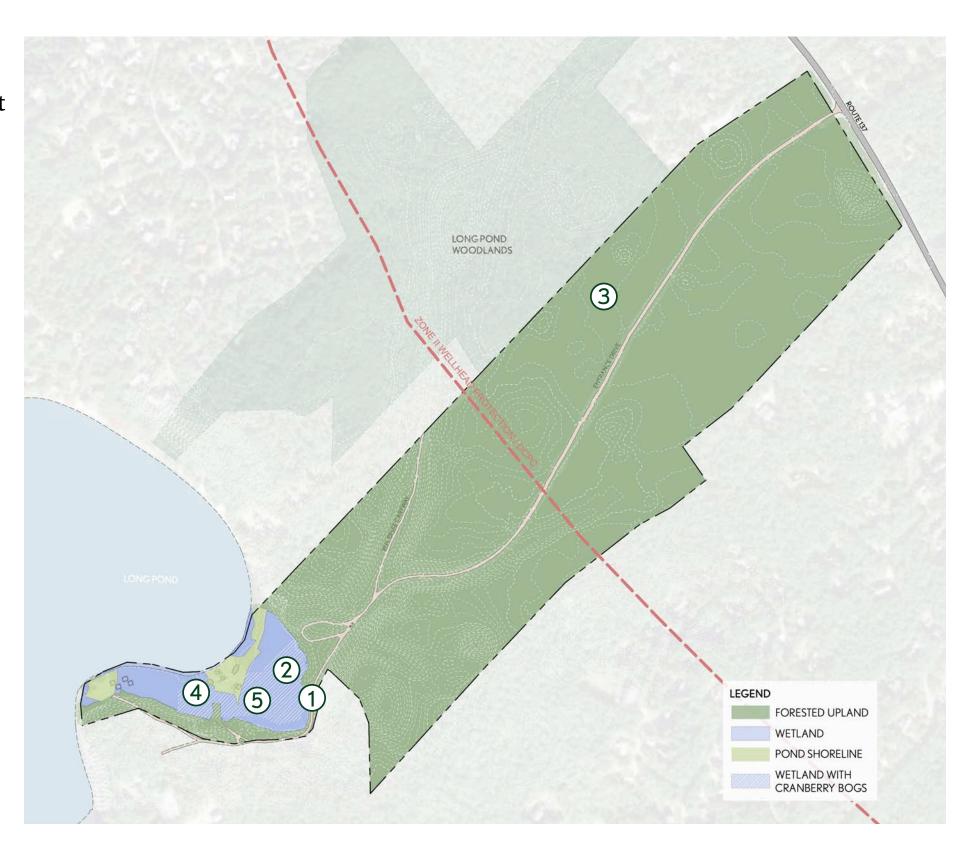
WETLAND CONSERVANCY SOILS

Soils that are included within the town's Wetland Conservancy District. This district is intended to preserve the groundwater table; to protect the purity of coastal and inland waters; to prevent unsuitable development in swamps, ponds, bogs or marshes; and to conserve the natural character of the environment, wildlife and open space.



Recommendations

- 1 Address the erosion/sedimentation along sections of Besse Cartway into the adjacent border vegetated wetland. This may involve remediation measures to collect runoff and slope stabilization; additional analysis is warranted on what measures can be implemented.
- ② Peform a Vernal Pool Assessment(s) within the abandoned cranberry bog in spring (March-April) to provide baseline information.
- 3 Protect contiguous forest.
- 4 Protect wetland ecosystems and critical habitat areas.
- (5) Verify wetland resources and buffer zones through regulatory filing with the Brewster Conservation Commission.



CIRCULATION

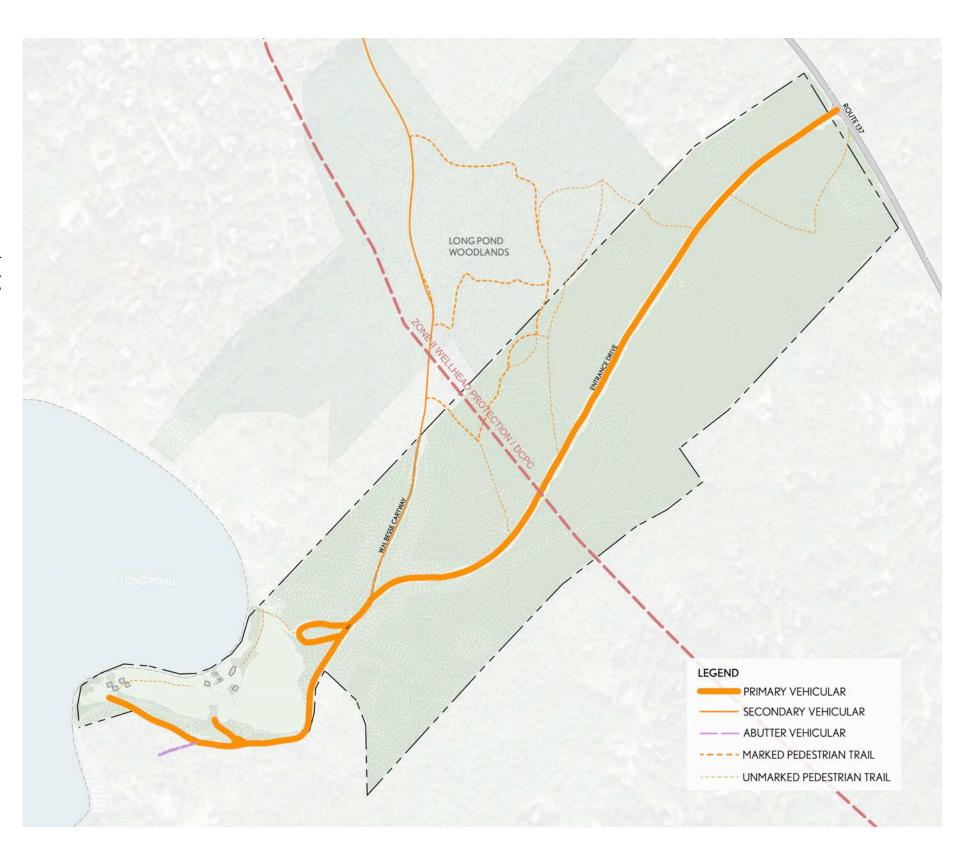
Vehicular and pedestrian circulation in the pond parcel is limited. Roads are narrow, steep and rugged. Historically, W.H. Besse Cartway was used to access the site before the driveway access was added. The site roads are used for abutter access to private properties by Long Pond and access via W.H. Besse Cartway circulates through a residential neighborhood. Walking trails tie into the Long Pond Woodlands.



TRAIL ALONG POND EDGE

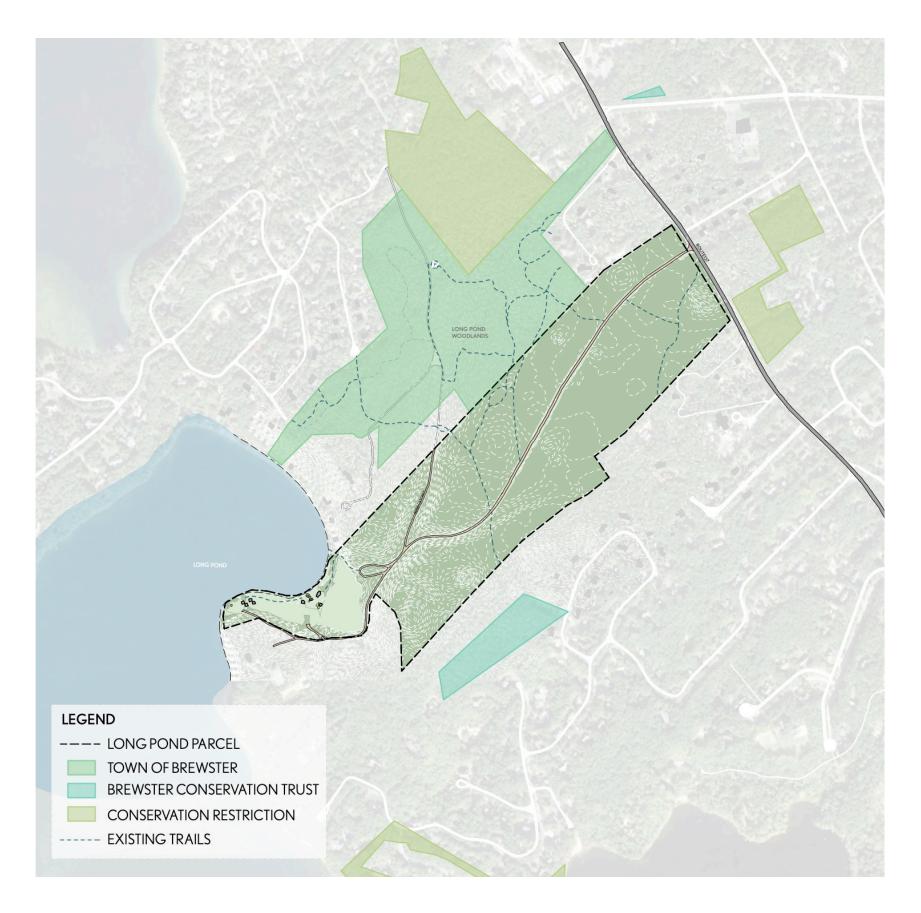


PRIMARY ROAD PROVIDES ABUTTER ACCESS



OPEN SPACE

There is potential to leverage the parcel's proximity to Long Pond Woodlands by enhancing trail connections and preserving contiguous woodland between the two parcels.



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LANDSCAPE CHARACTER







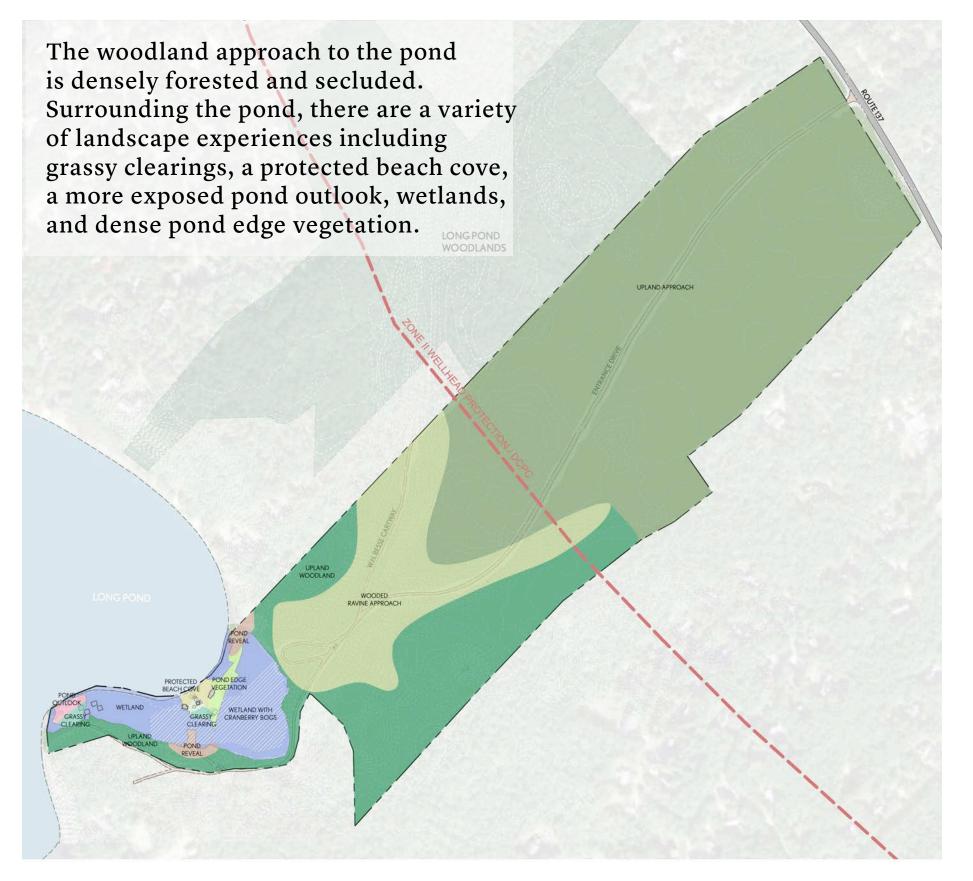




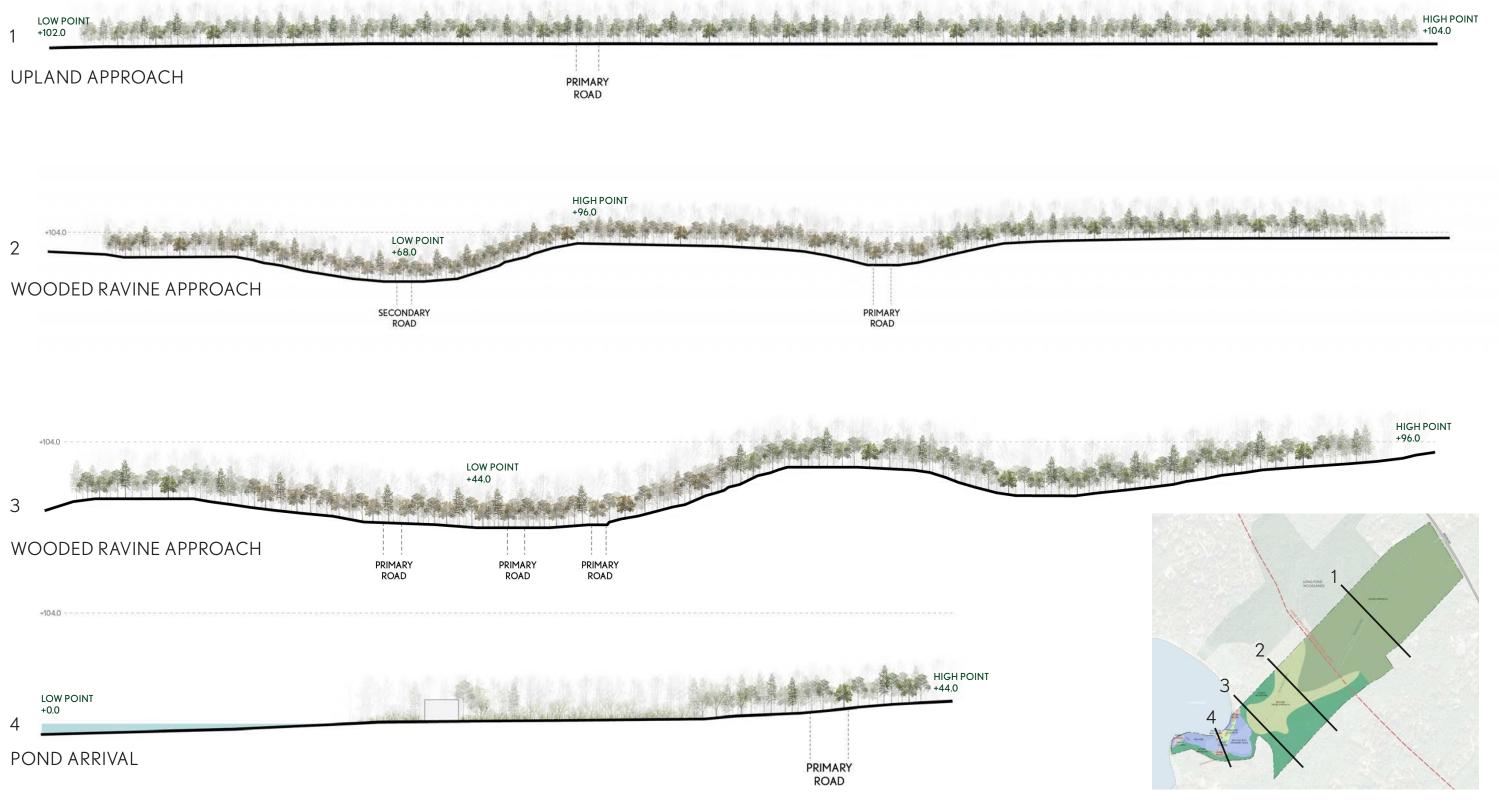








LANDSCAPE CHARACTER



UTILITIES

Existing buried electrical in gravel road from Route 137 feeds adjacent residential property.

Abandoned buried telephone in gravel road previously fed some of the CCSC structures onsite, but is no longer believed to be active.

No other known utilities onsite.

Portion of parcel adjacent to 137 is within Zone II of Town drinking water supply.

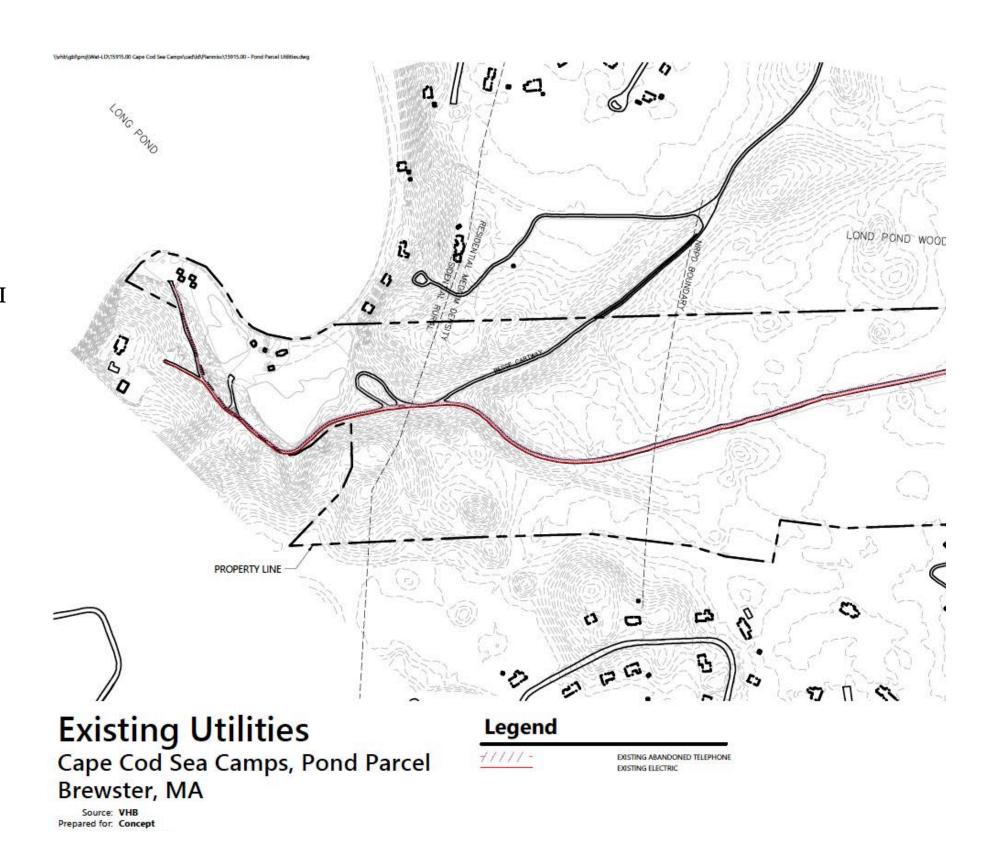
RECOMMENDED IMPROVEMENTS

New water, natural gas, electric, and telecommunications services, if required, from Long Pond Road

Stormwater improvements to provide water quality treatment, peak rate mitigation, and infiltration will be required with proposed development per local and DEP standards

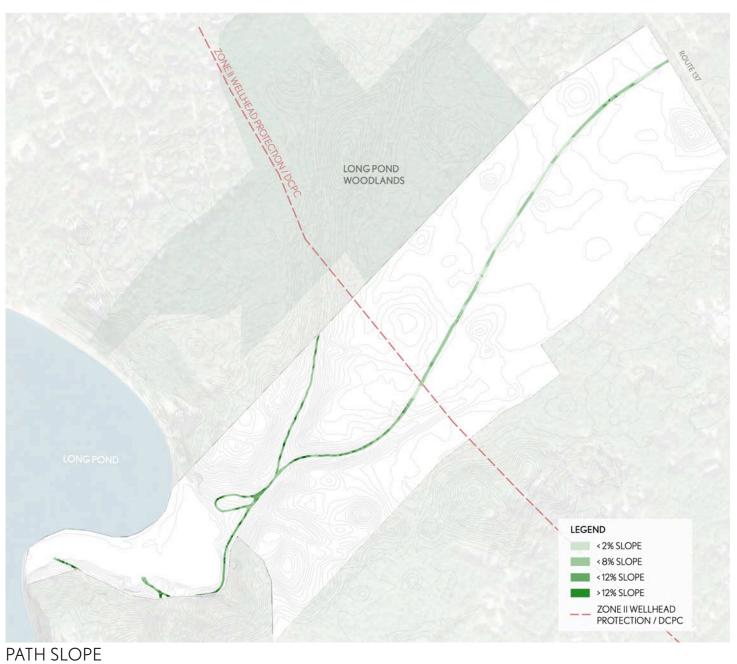
No existing sewer/septic onsite – new septic system required if sewer generation is proposed

New development may require onsite package treatment system in order to meet current DEP standards



Topography

Vehicular circulation is characterized by steep slopes. The majority of the topography under 4% slope is located in the Zone II closer to Route 6A.





AREAS UNDER 4% SLOPE

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Current Zoning Regulations

ZONE II WELLHEAD PROTECTION

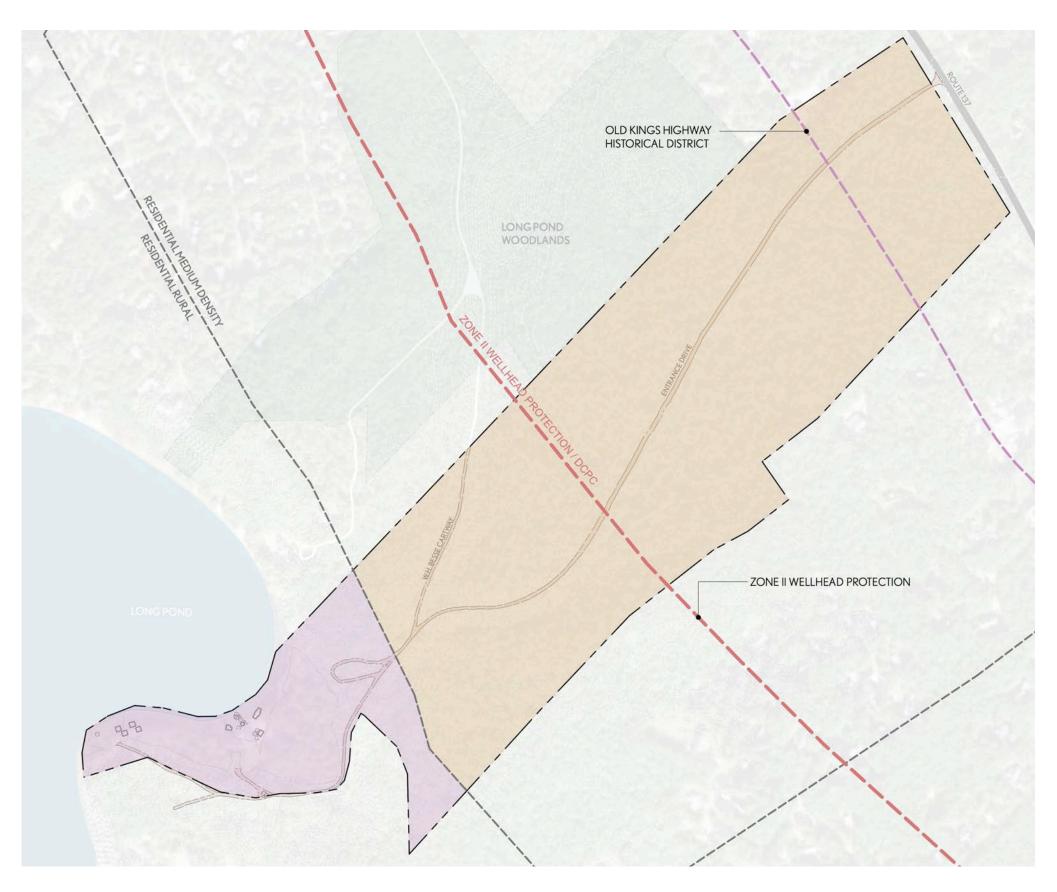
Zone II is the land surface area that contributes water to a public well. Protecting undeveloped open space around the Town's wells minimizes the potential for contaminants to impact drinking water quality. DEP recommends communities restrict certain high risk land uses from the Zone II.

The Town's Water Quality Review Bylaw prohibits hazardous materials use, or storage at volumes above those typically used in a household, in the Zone II areas. Zone II areas must be protected to maintain Town water nitrogen levels under 5mg/L, and PFAS below 20 parts per trillion.

OLD KINGS HIGHWAY HISTORIC DISTRICT

New buildings and modifications to existing buildings are reviewed by the Historic District Committee to ensure any changes are appropriate to maintaining the aesthetic tradition of Brewster as a member of the Old King's Highway Regional Historic District.





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Natural Buffer Zones

WETLANDS

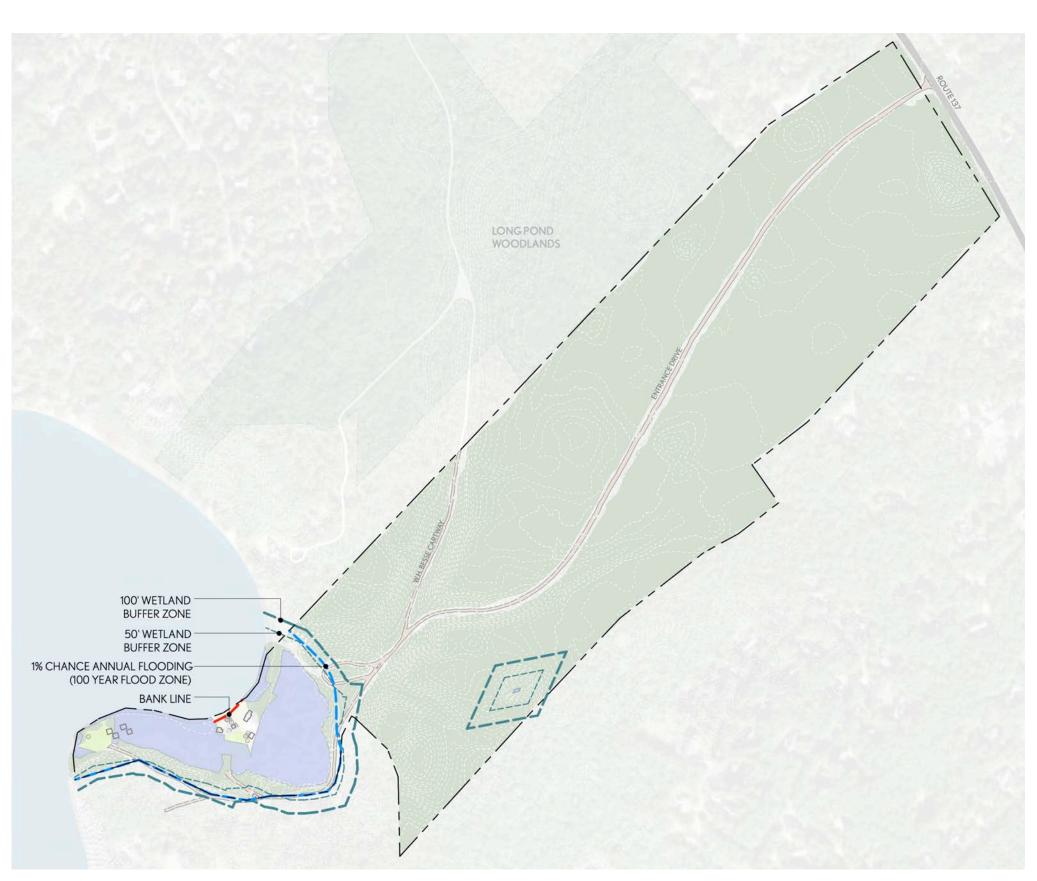
50'/100' BUFFER ZONE

Activity within this zone must not impair the wetland's ability to perform. Building within or altering a vegetated wetland is prohibited unless a variance is granted, which can occur if there is an overriding public interest and the proposed activity does not impair the wetland functioning. Maintenance of an already existing structure is permitted.

1% CHANCE ANNUAL FLOODING (100 YEAR FLOOD ZONE)

BORDERING LAND SUBJECT TO FLOODING (BLSF) This area is susceptible to annual flooding.





Biomap Critical Landscapes and Habitats

Sensitive areas will structure development opportunities on site.

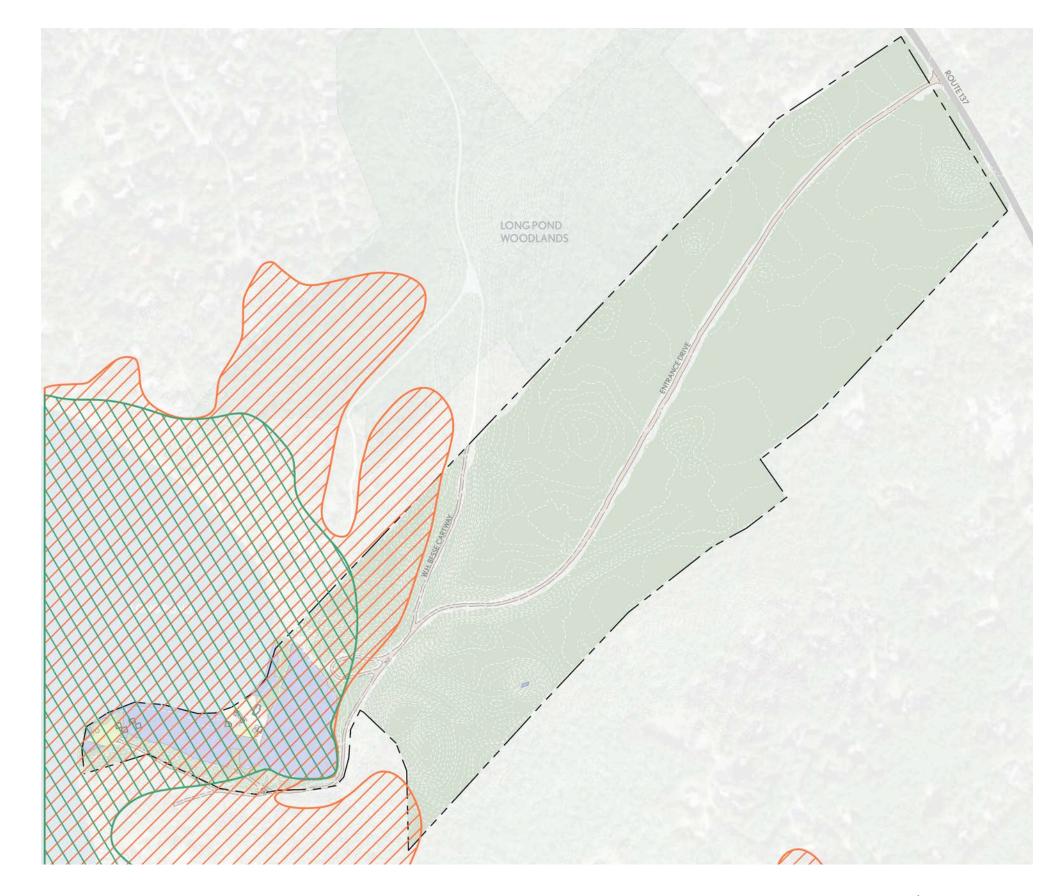
CORE HABITAT AND CRITICAL NATURAL LANDSCAPE

CORE HABITAT

This area is critical for the long-term persistence of a rare species, exemplary communities, and resilient ecosystems.

CRITICAL NATURAL LANDSCAPE

This area is minimally impacted by development and enhances connectivity and resilience of core habitats.



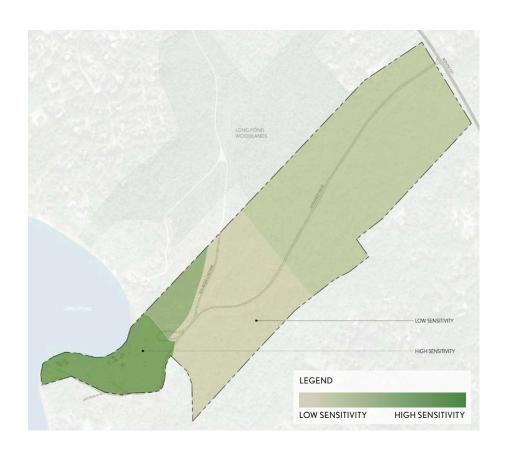
LEGEND

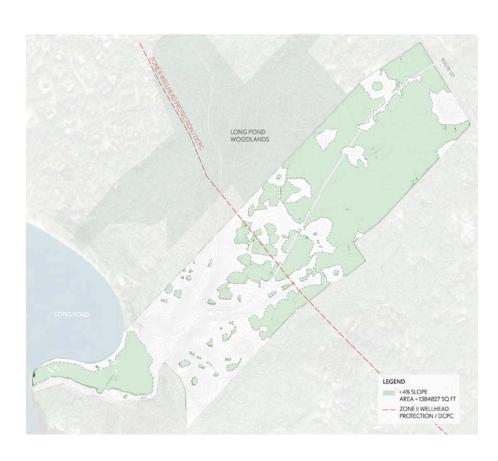
BIOMAP CRITICAL NATURAL LANDSCAPE

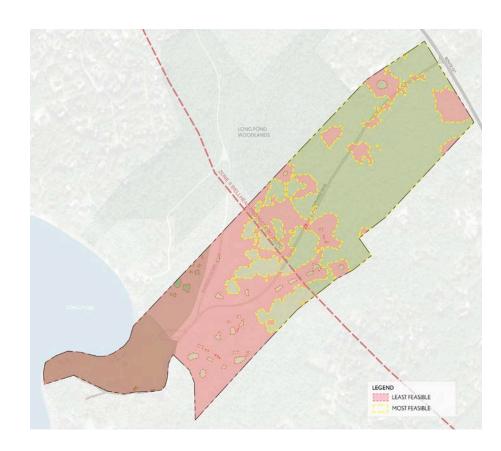
BIOMAP CORE HABITAT

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Development Feasibility









POND PARCEL - KEY QUESTIONS

- 1. What are the desired programs for the Pond Parcel and what are the access needs and requirements (parking, etc.) for those programs?
- 2. Where may there be opportunities for building on site (housing, parking, municipal uses, active recreation, other)? What is the process for evaluating building in the Zone 2 area?
- 3. If housing is a desired use for the site, what density would be appropriate and how will that density be determined by the Town?

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POND PARCEL

Issues

Structures at the Pond Parcel are primarily located near the Pond at a low elevation. Structures are primarily small structures with some storage and amenity buildings. One building is an open air structure. There is an existing dock system that can be re-used if permitted through the Conservation Committee and a new Chapter 91 license is attained.

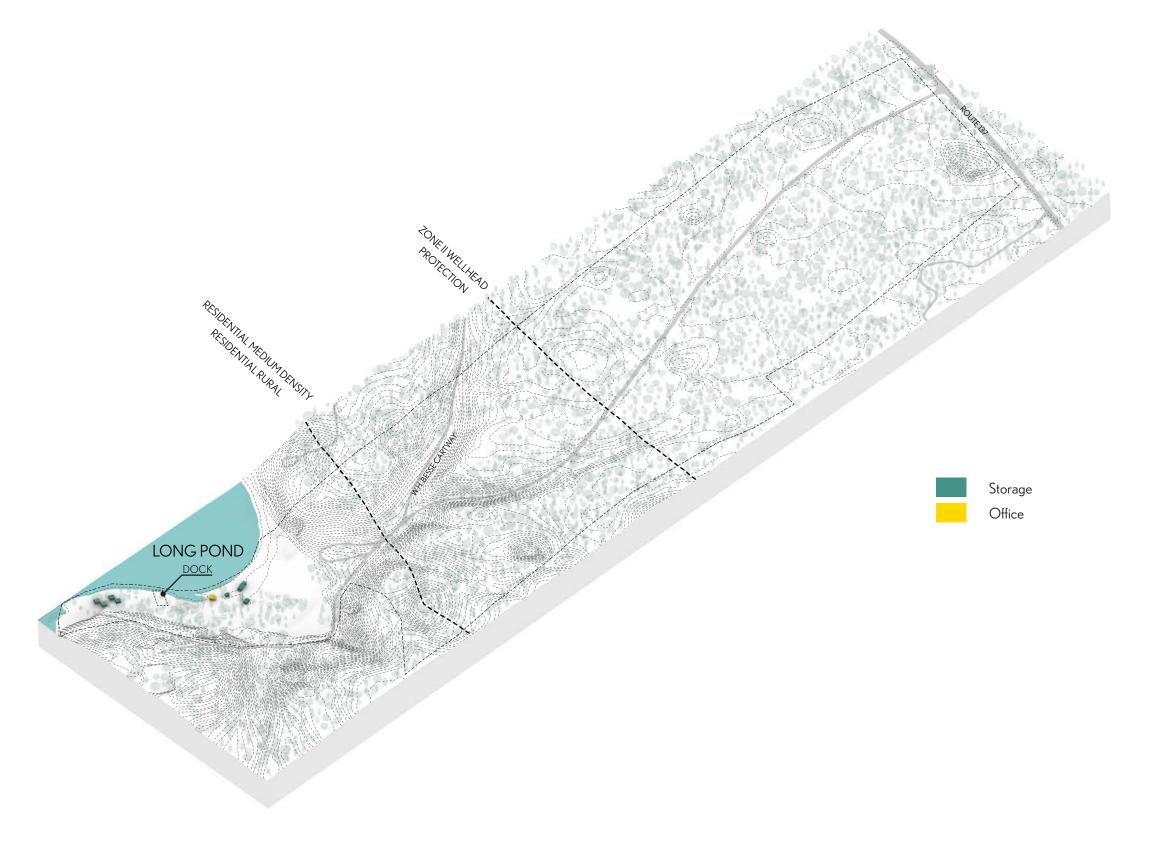




POND PARCEL - BUILDING TYPE

Site Analysis

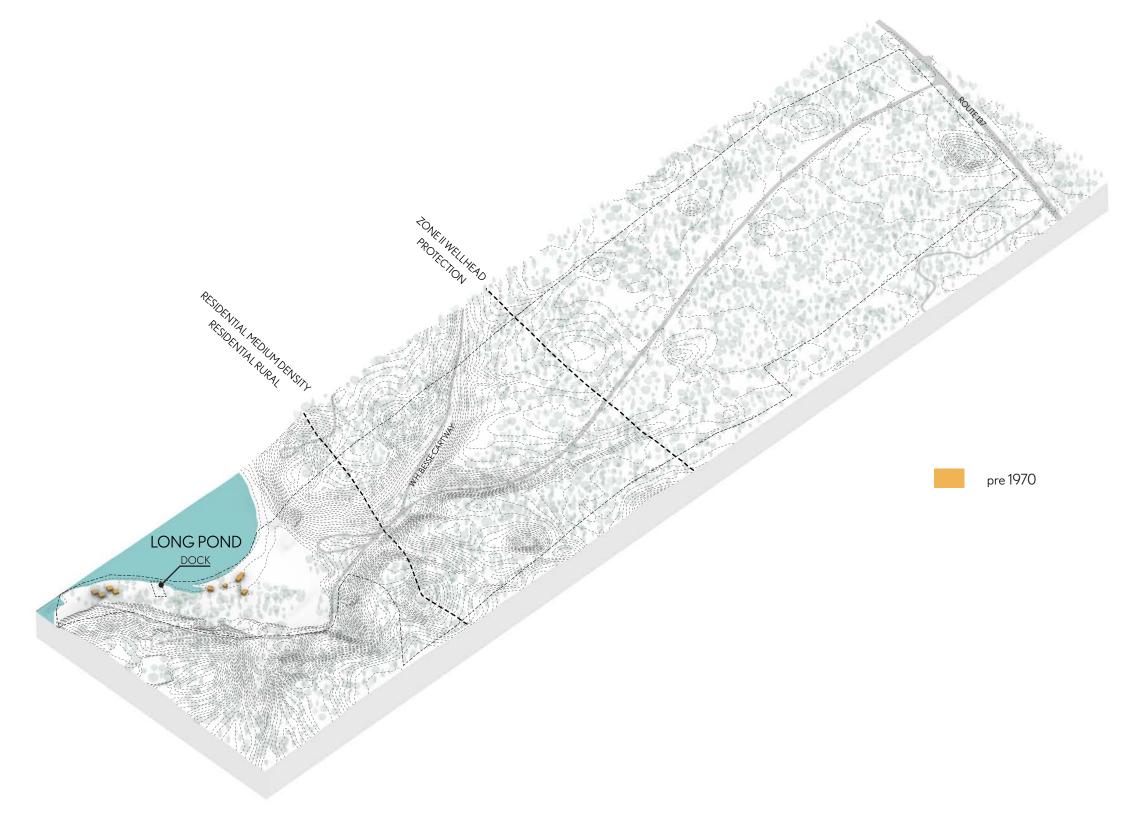
Most of the buildings on the pond parcel are for storage with one building used as an office.



POND PARCEL - BUILDING AGE

Site Analysis

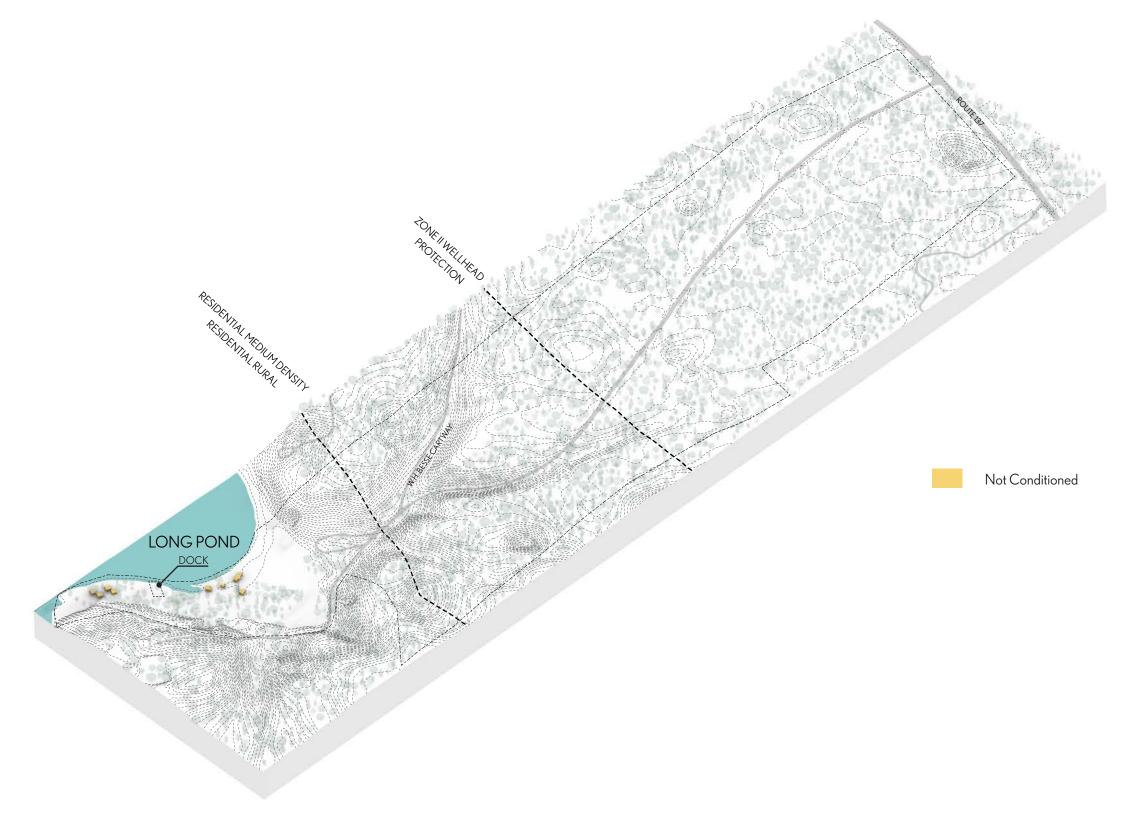
All of the buildings on the pond parcel were in their current location prior to 1970.



POND PARCEL - WINTERIZED

Site Analysis

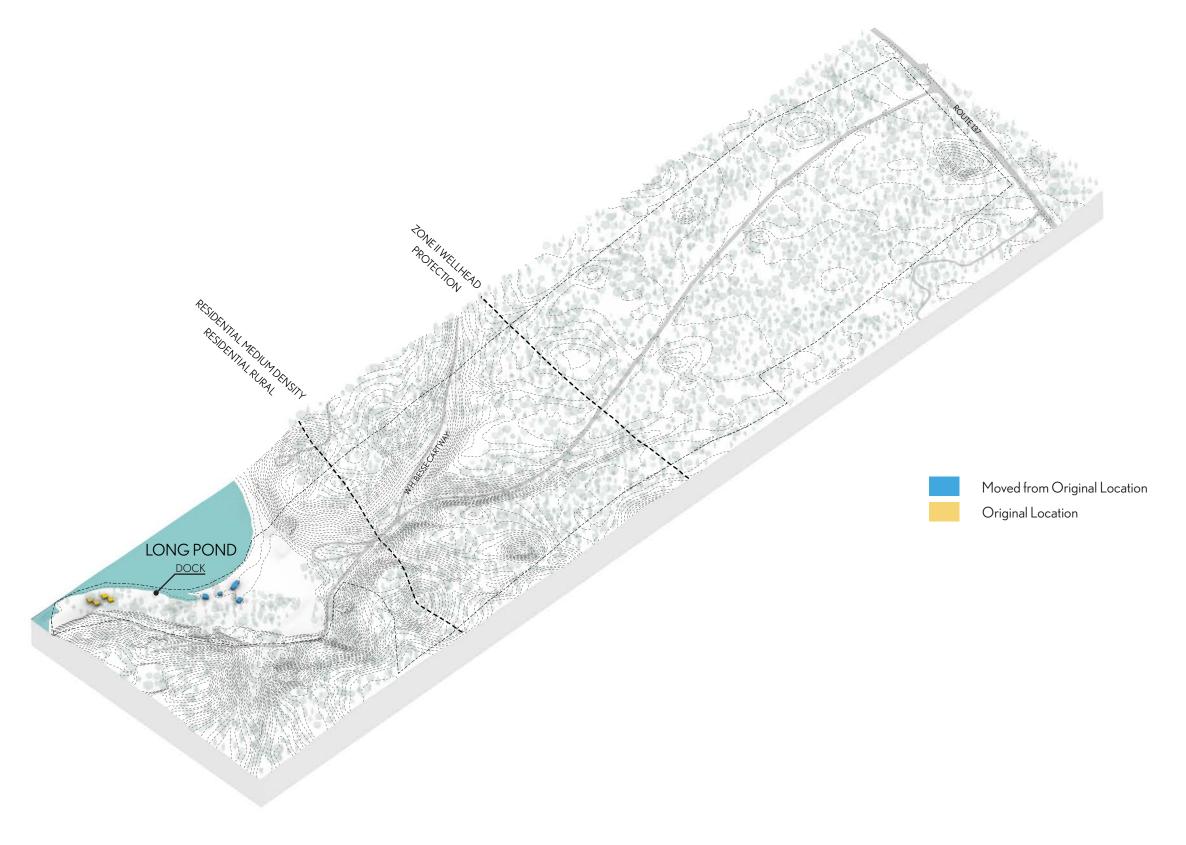
None of the buildings on the pond parcel are winterized or conditioned.



POND PARCEL - MOVED/ORIGINAL LOCATION

Site Analysis

All buildings on section 1.1 of the pond parcel have been moved to their current location.

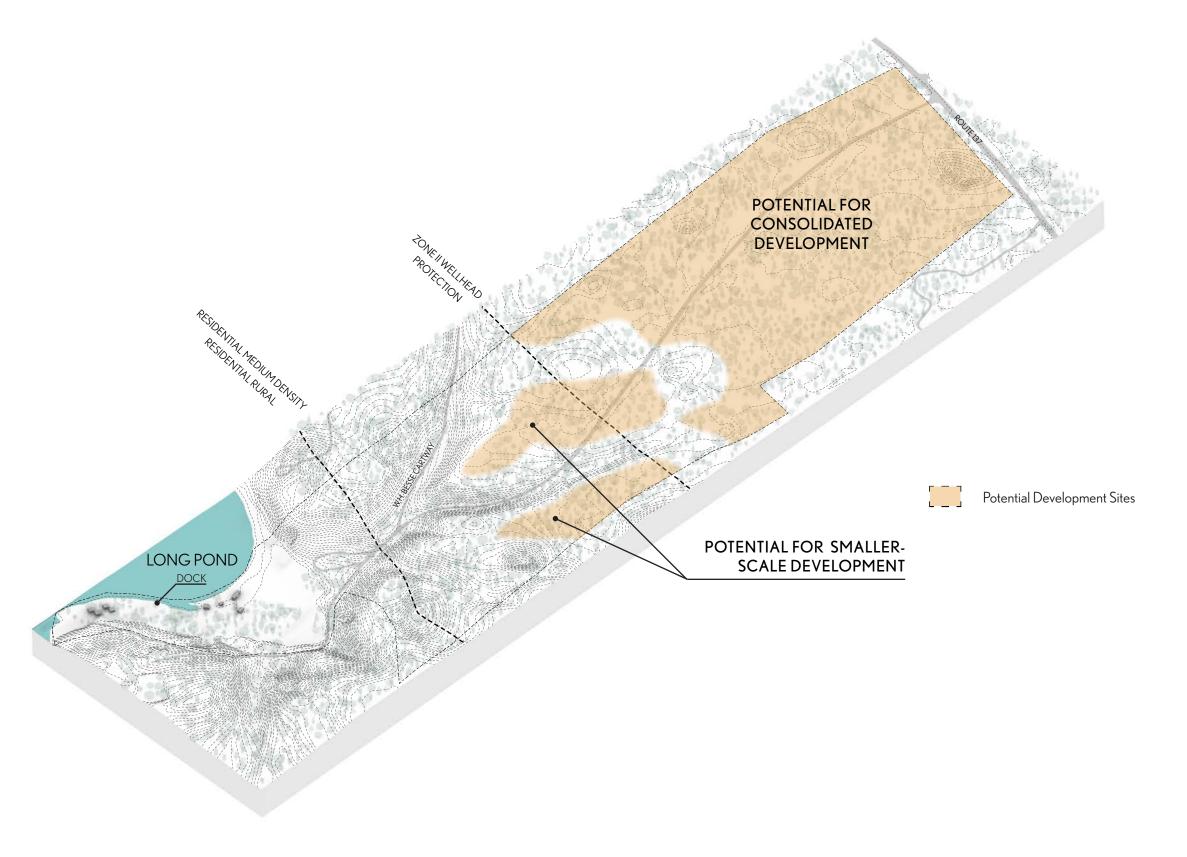


POND PARCEL - POTENTIAL DEVELOPMENT

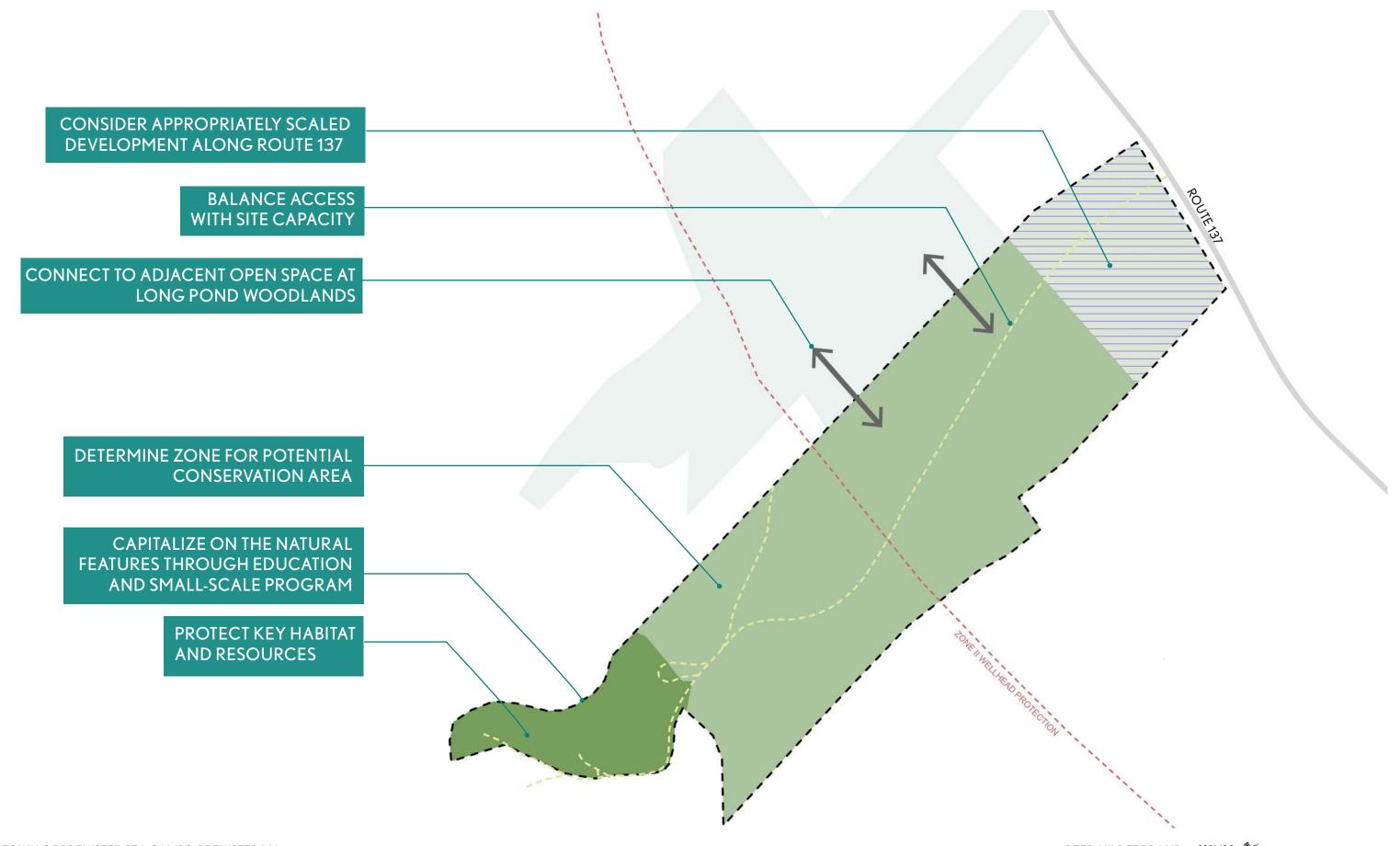
Site Analysis

The Pond Parcel has significant topographical variation and limited paved access ways.

The flattest portions of the site also fall into the Zone 2 area, which would require careful consideration if developed, but is still feasible and they are surrounded by residential areas.



KEY OPPORTUNITIES

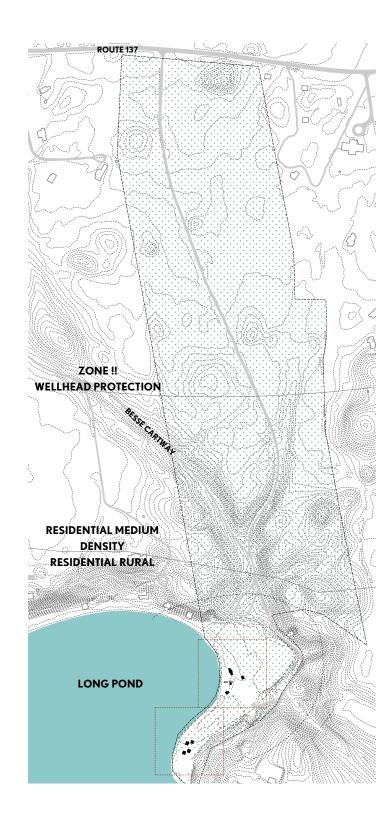


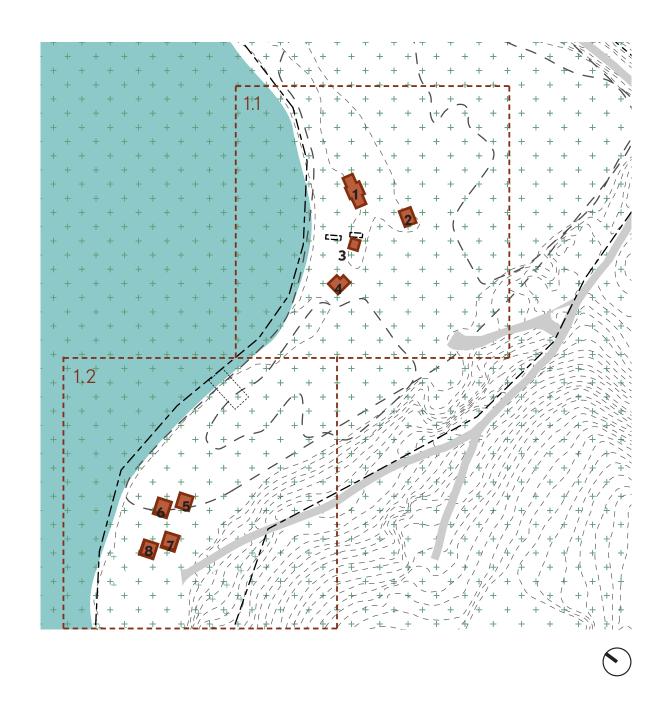


POND PARCEL

Building Inventory

The Pond parcel consists of two sites with a small footpath linking the two clusters of buildings.

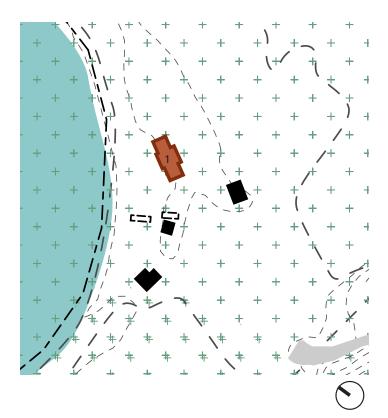


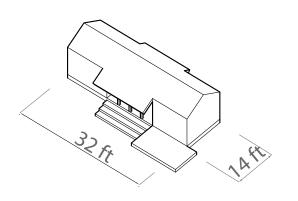


Building 1	
year built(year renovated):	pre 1970
winterized/conditioned/en- closed:	no
structural type:	wood frame on piers
structural basement:	piers
structural assessment:	TBD
exterior materiality:	wood shingles
interior materiality:	minimum
number of bathrooms:	0
number of rooms:	1
kitchen yes/no:	no
basement yes/no:	no
attic yes/no:	no
roof type/condition:	asphalt shingles
prior uses:	storage
moved/original location:	moved









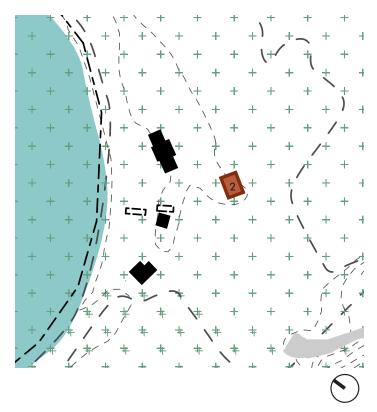
*estimates

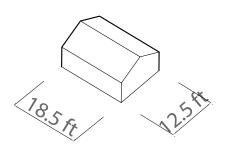
Height:	12 ft*
Footprint:	450 sqft*
Gross Area:	450 sqft*
Number of Stories:	1

Building 2	
year built(year renovated):	pre 1970
winterized/conditioned/en- closed:	no
structural type:	wood frame on piers
structural assessment:	TBD
exterior materiality:	wood shingles
interior materiality:	minimum
number of bathrooms:	0
number of rooms:	1
kitchen yes/no:	no
basement yes/no:	no
attic yes/no:	no
roof type/condition:	asphalt shingles
prior uses:	storage
moved/original location:	moved







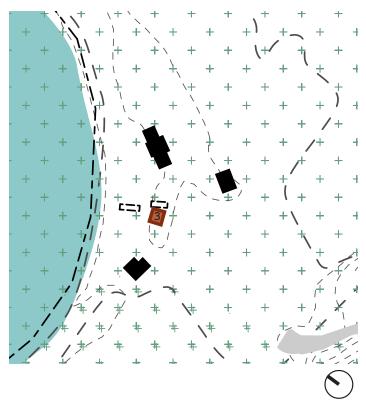


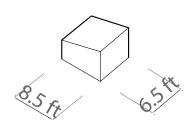
*estimates

Height:	12 ft*
Footprint:	230 sqft*
Gross Area:	230 sqft*
Number of Stories:	1

Building 3	
year built(year renovated):	pre 1970
winterized/conditioned/en- closed:	no
structural type:	wood frame on piers
structural assessment:	TBD
exterior materiality:	wood shingles
interior materiality:	minimum
number of bathrooms:	0
number of rooms:	1
kitchen yes/no:	no
basement yes/no:	no
attic yes/no:	no
roof type/condition:	asphalt shingles
prior uses:	gas & tool storage
moved/original location:	moved





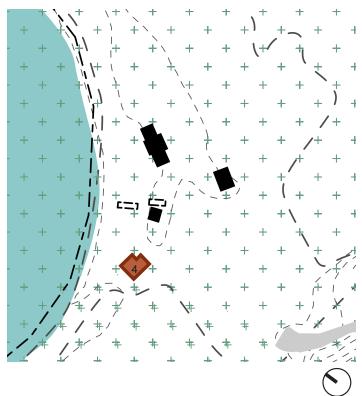


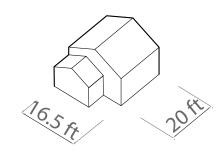
*estimates

Height:	12 ft*
Footprint:	55 sqft*
Gross Area:	55 sqft*
Number of Stories:	1

Building 4	
year built(year renovated):	pre 1970
winterized/conditioned/en- closed:	no
structural type:	wood frame on piers
structural assessment:	TBD
exterior materiality:	wood shingles
interior materiality:	minimum
number of bathrooms:	0
number of rooms:	1
kitchen yes/no:	no
basement yes/no:	no
attic yes/no:	no
roof type/condition:	asphalt shingles
prior uses:	office, caretaker
moved/original location:	moved







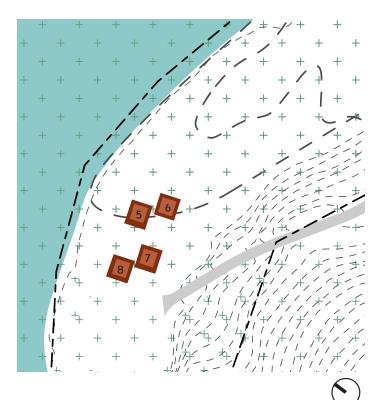
*estimates

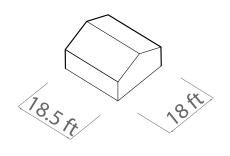
Height:	12 ft*
Footprint:	330 sqft*
Gross Area:	330 sqft*
Number of Stories:	1

Buildings 5-8	
year built(year renovated):	pre 1970
winterized/conditioned/enclosed:	no
structural type:	wood frame on piers
structural assessment:	TBD
exterior materiality:	wood shingles
interior materiality:	minimum
number of bathrooms:	0
number of rooms:	1
kitchen yes/no:	no
basement yes/no:	no
attic yes/no:	no
roof type/condition:	asphalt shingles
prior uses:	storage
moved/original location:	original location









*estimates

Height:	12 ft
Footprint:	330 sqft*
Gross Area:	330 sqft*
Number of Stories:	1

1.2: POND PARCEL SWIM DOCK

Swim Dock	
year built(year renovated):	pre 1970
winterized/conditioned/en- closed:	NA
structural type:	wood decking
structural assessment:	TBD
exterior materiality:	wood
interior materiality:	NA
number of bathrooms:	NA
number of rooms:	NA
kitchen yes/no:	NA
basement yes/no:	NA
attic yes/no:	NA
roof type/condition:	NA
prior uses:	swim dock
moved/original location:	moved and currently out of use



