

Liz Dudley

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Wharf Design

 207-578-7932

  edudley@islandinstitute.org

Today's Goals

Revisiting Evolution of
Wharf Work

Vision Boarding Design

Generate Feedback

Background



Public Wharf Condition and Resiliency Assessment

Monhegan Island, Maine



Key Points for Emphasis

1

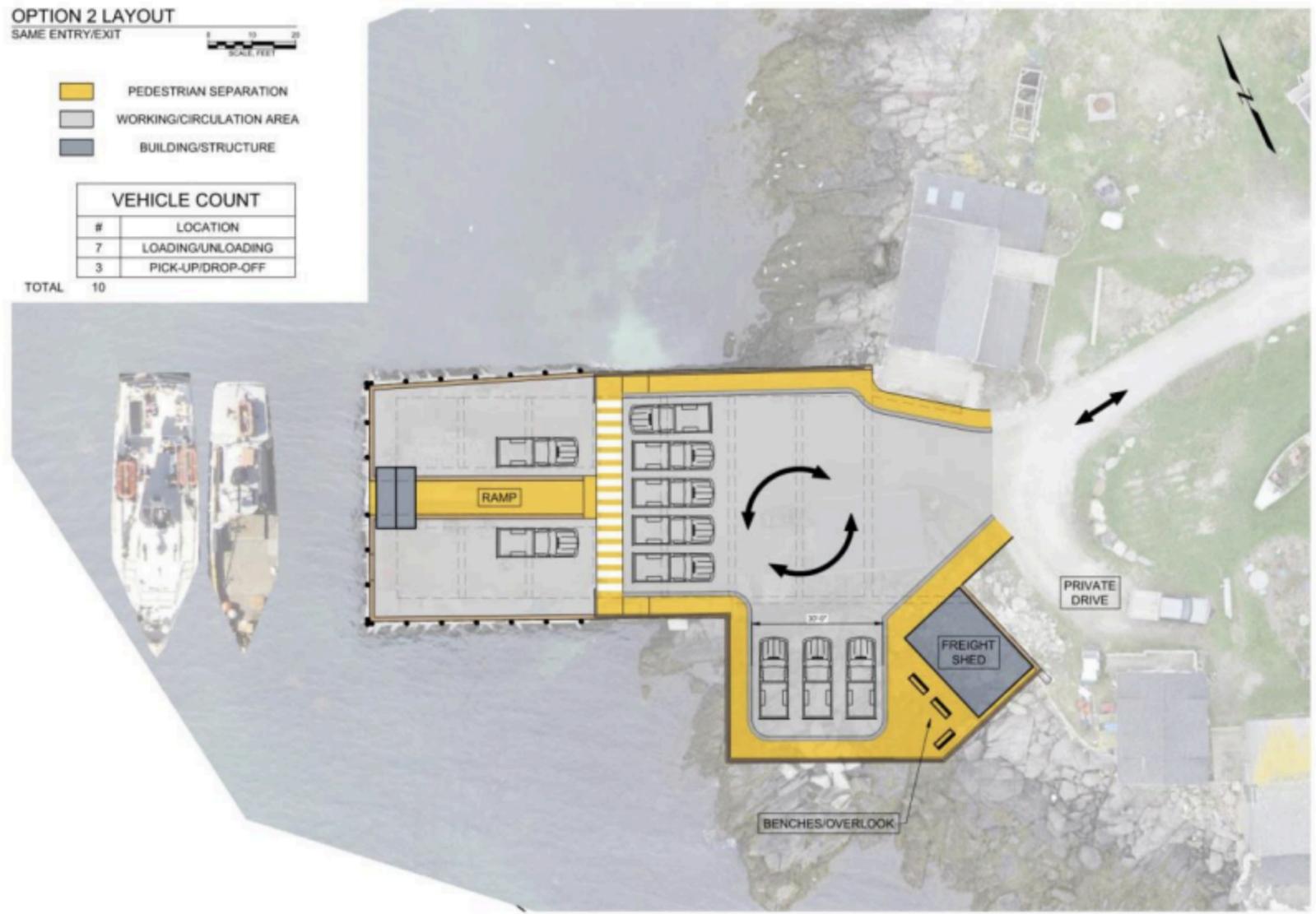
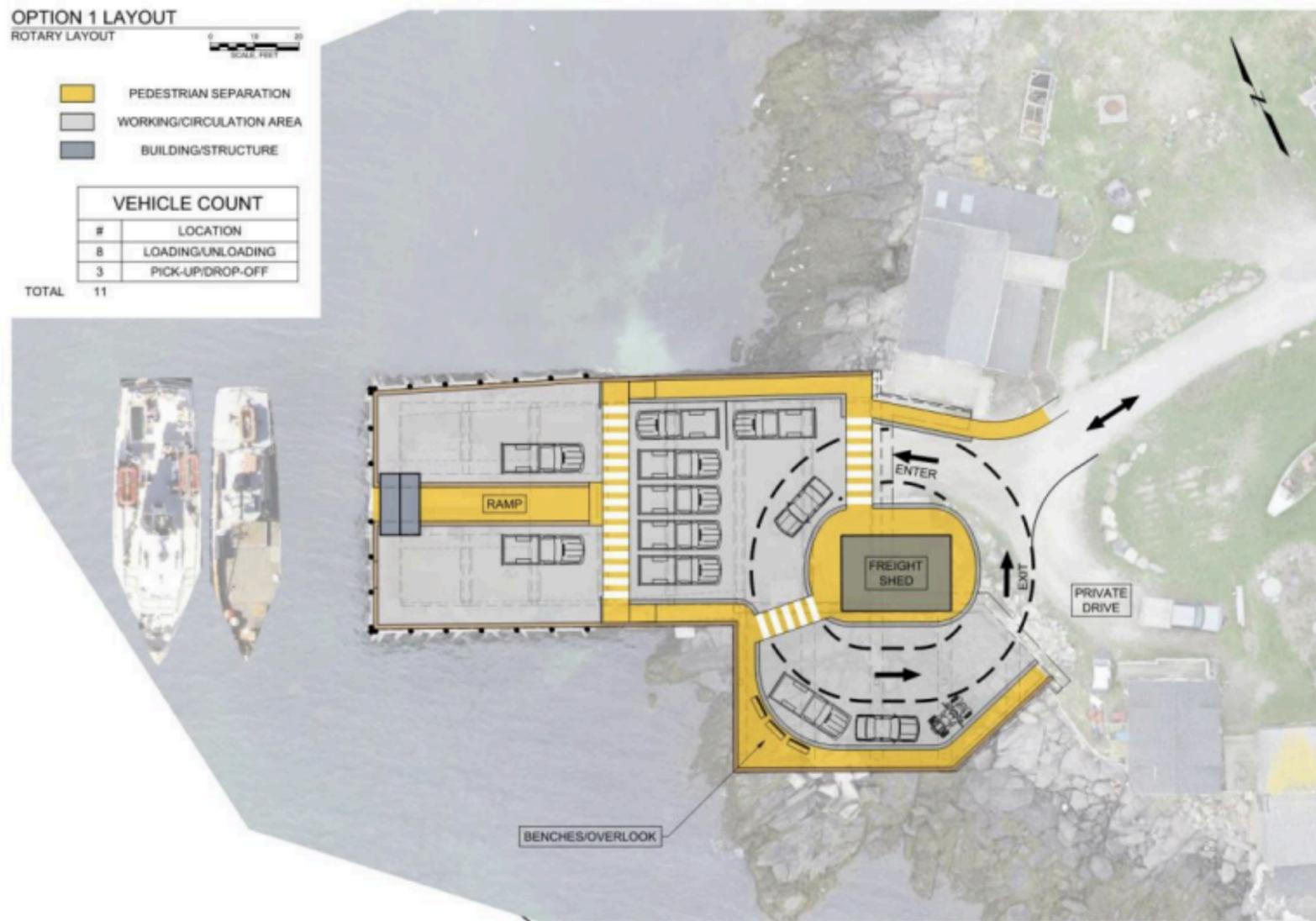
Vulnerable to flooding, wave overtopping, and washout of gravel surface

2

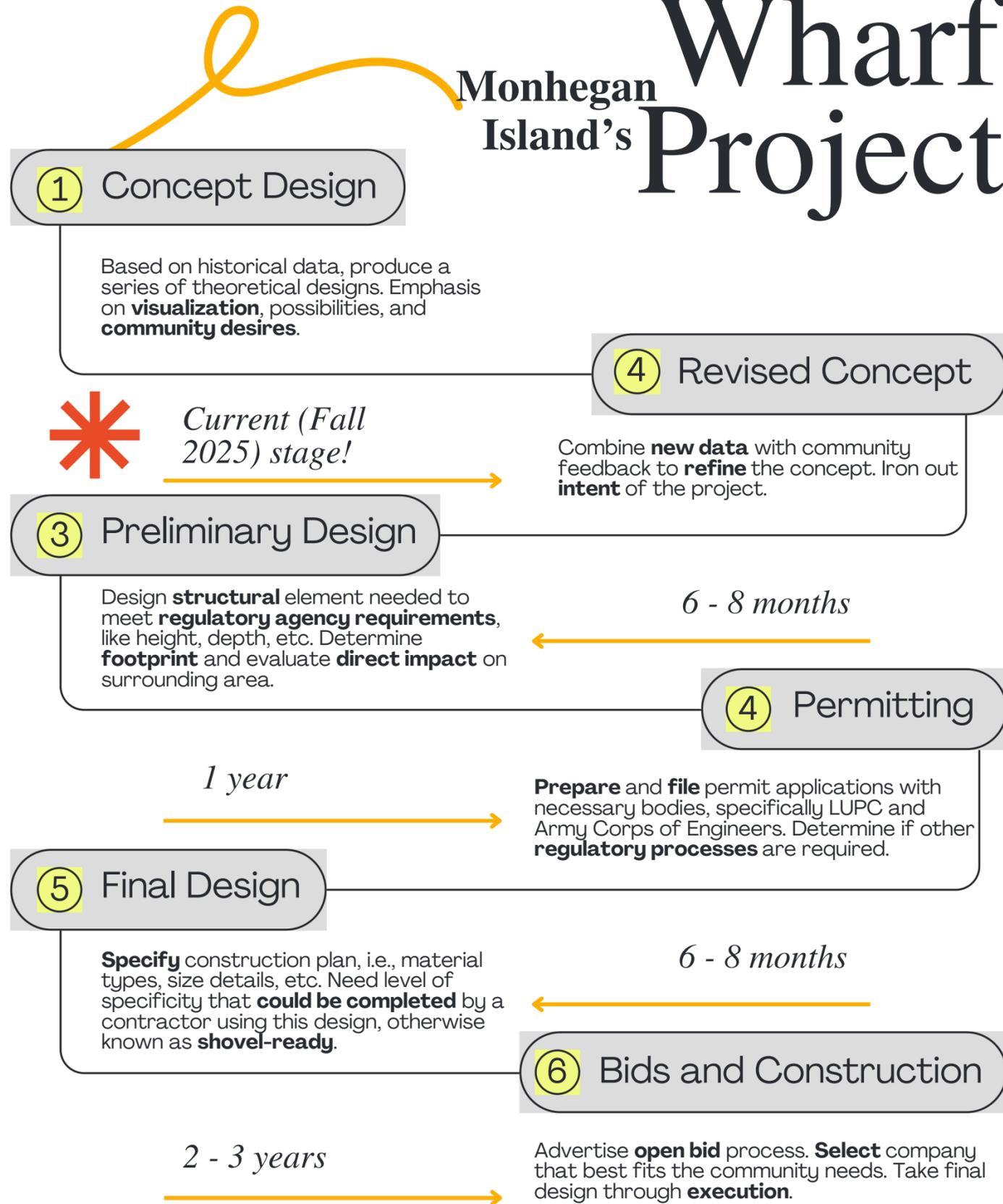
Limited in space to serve mixed use (working waterfront, ferry service, safe vehicle circulation, etc.)

Concrete structure concept proposed to raise structure, provide resilient surface, and increase footprint for safe circulation

Initial Concepts



Monhegan Island's Wharf Project



Our Process

Shore & Harbor Planning Grant

New Data

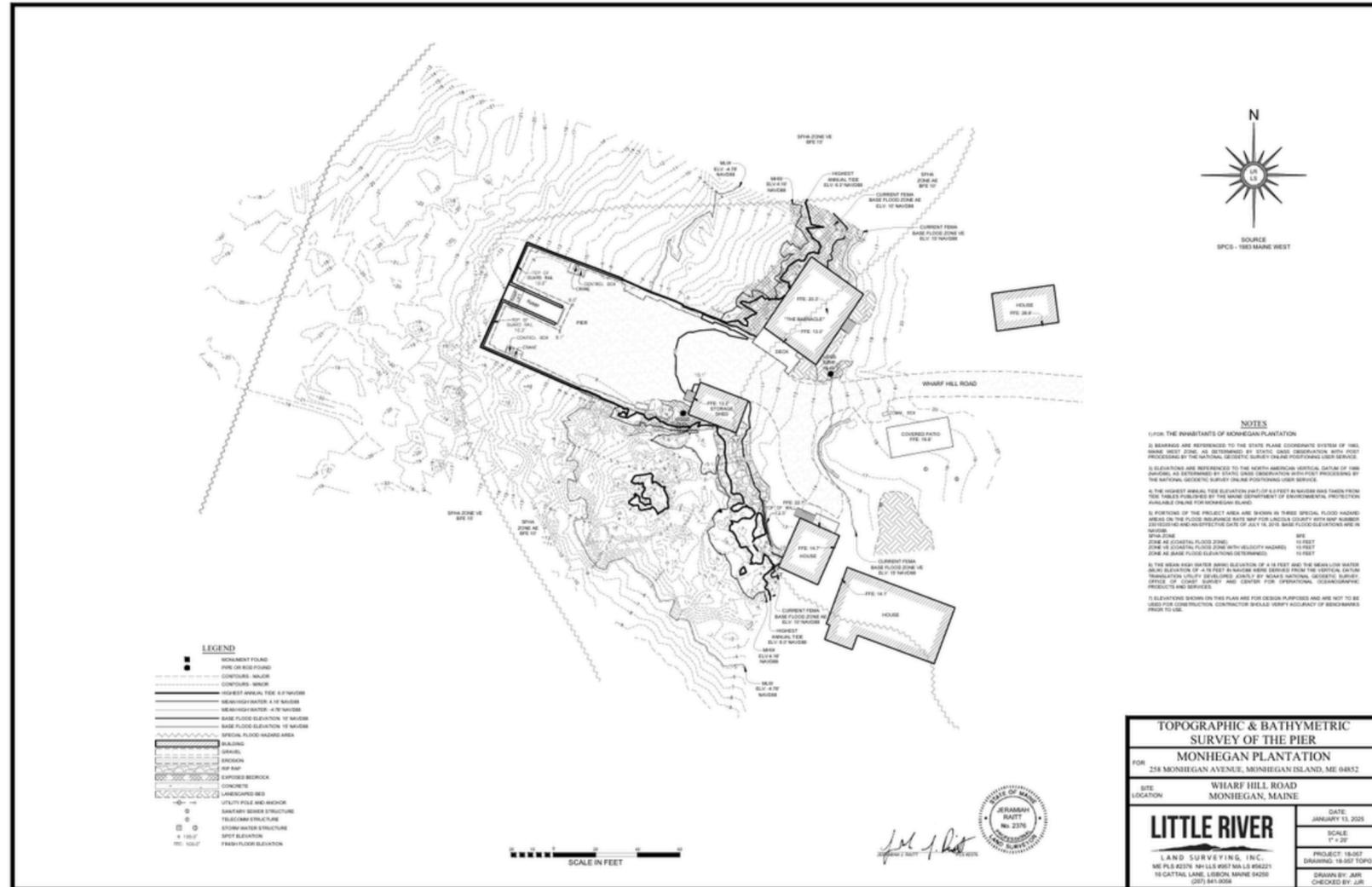
Regulatory Planning

Funding Strategy

OPC

New Data

HRGS



**GEOPHYSICAL SURVEY
 GRANITE WHARF
 MONHEGAN ISLAND, MAINE**

Memorandums

Regulatory

- **USACE**
- **LUPC**
- **Submerged Lands
Lease**

Funding Strategy

- **State Grants**
- **Federal Grants**
- **Engineering vs.
Construction**

Opinion of Probable Cost

Drawings

Existing Conditions Plan

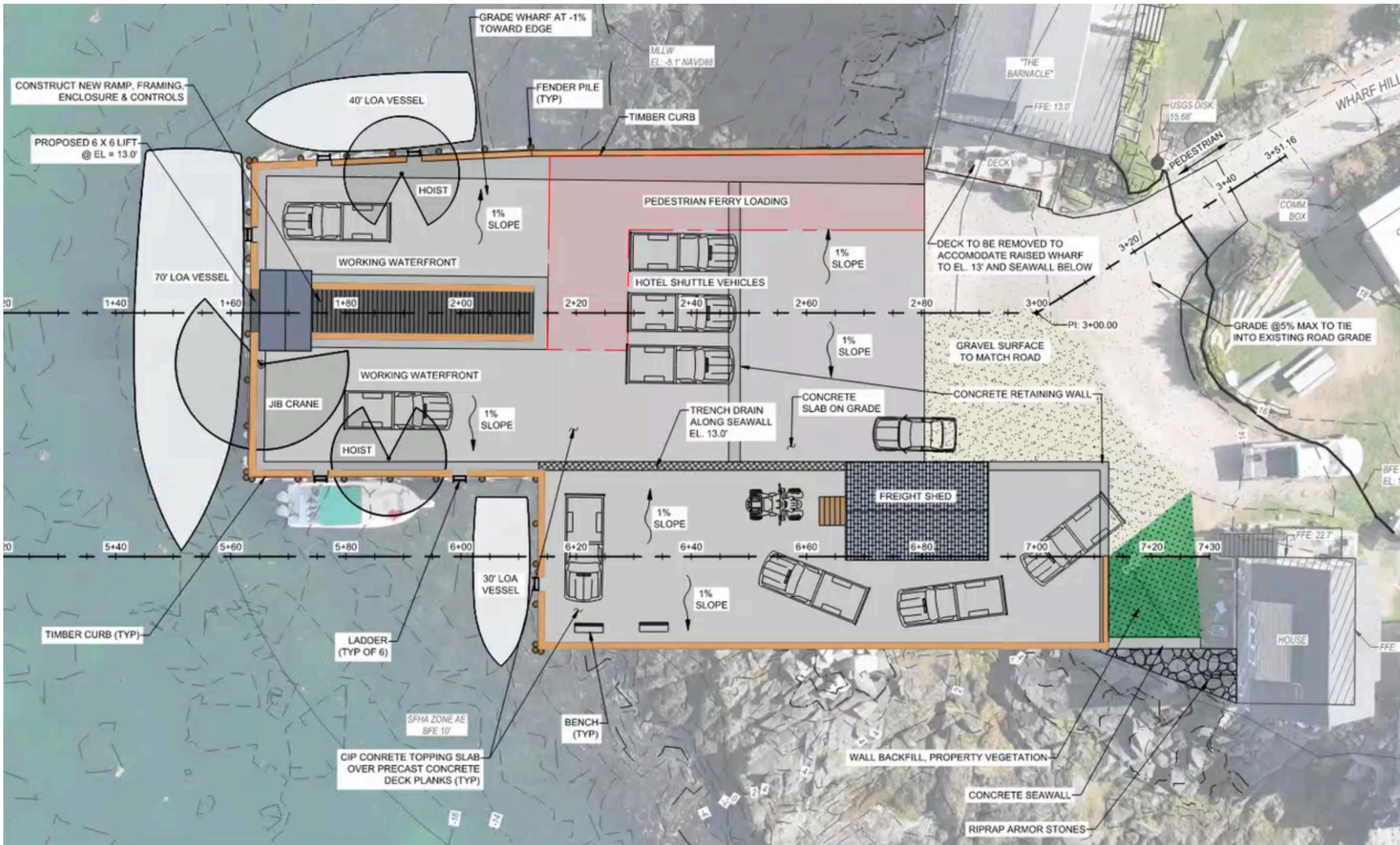
Deck Plan

 Site Plan 

3 Cross Sections

Foundation Plan and
Elevation

Wharf Centerline and
Ramp Profiles



CONSTRUCT NEW RAMP, FRAMING, ENCLOSURE & CONTROLS

PROPOSED 6 X 6 LIFT @ EL = 13.0'

GRADE WHARF AT -1% TOWARD EDGE

MLLW EL. -5.1' NAVD88

FENDER PILE (TYP)

TIMBER CURB

"THE BARNACLE"

FFE: 13.0'

USGS DISK 15.68'

WHARF HILL

40' LOA VESSEL

HOIST

1% SLOPE

PEDESTRIAN FERRY LOADING

1% SLOPE

DECK TO BE REMOVED TO ACCOMMODATE RAISED WHARF TO EL. 13' AND SEAWALL BELOW

70' LOA VESSEL

WORKING WATERFRONT

HOTEL SHUTTLE VEHICLES

1% SLOPE

GRAVEL SURFACE TO MATCH ROAD

GRADE @5% MAX TO TIE INTO EXISTING ROAD GRADE

WORKING WATERFRONT

JIB CRANE

1% SLOPE

TRENCH DRAIN ALONG SEAWALL EL. 13.0'

CONCRETE SLAB ON GRADE

CONCRETE RETAINING WALL

WORKING WATERFRONT

HOIST

CONCRETE SEAWALL

FREIGHT SHED

1% SLOPE

1% SLOPE

FFE: 22.7'

HOUSE

TIMBER CURB (TYP)

LADDER (TYP OF 6)

SFHA ZONE AE BFE 10'

BENCH (TYP)

CIP CONCRETE TOPPING SLAB OVER PRECAST CONCRETE DECK PLANKS (TYP)

WALL BACKFILL, PROPERTY VEGETATION

CONCRETE SEAWALL

RIPRAP ARMOR STONES

Thank You

Please reach out with any questions.

edudley@islandinstitute.org

firstassessor@monheganplantation.com
