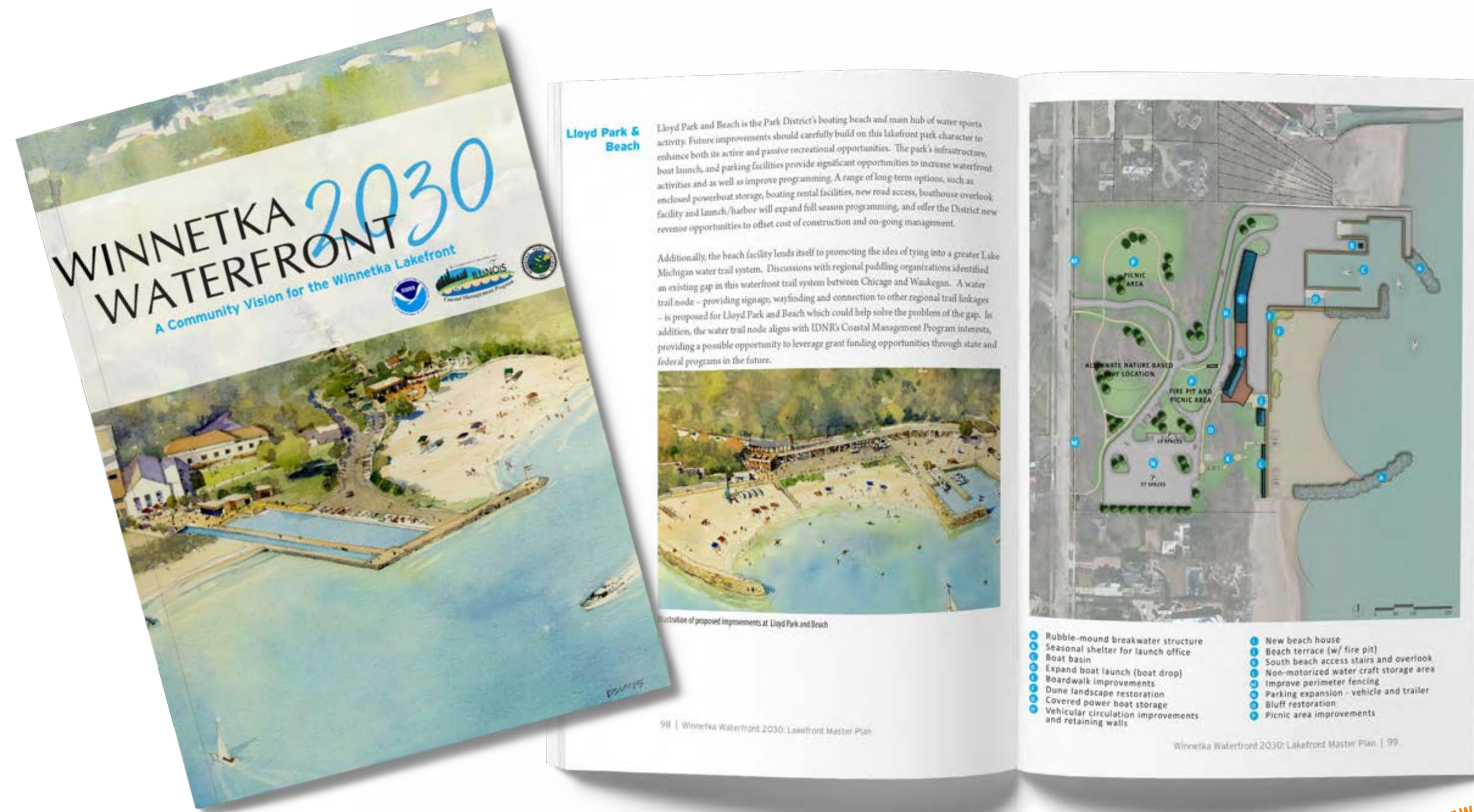


## Lakefront Master Plan



Through the master planning process, a range of ideas, concepts, policies, and initiatives were developed and vetted internally with staff, the advisory council, and master plan team. Ideas were also vetted externally with the community at numerous public open houses, lakefront tours, and focus group sessions. This dialogue was critical to the Project Team's decision making and will support moving a successful long-term master plan forward. This input has identified community-supported character and acceptable change to lakefront resources, opened up new opportunities for policy, programming and operational change, and shaped the vision of each of the lakefront parks. This master planning effort was funded in part by the Illinois Department of Natural Resources Sustainable Shoreline Grant and expanded to cover bluff improvements as part of additional grant funding.

### LAKEFRONT ADVISORY COMMITTEE

Blake Hannafan  
Cheryl Christian  
Jim Petersen  
Ken Alt  
Newton Marshall

Charles Dowding  
Chris MacRitchie  
Joe Dooley  
Mike Doornweerd  
Warren James

### WINNETKA PARK DISTRICT

Ian Larkin, Board Liaison  
Teresa Claybrook, Board Liaison  
Bob Smith, Staff Liaison  
Costa Kutulas, Staff Liaison  
John Muno, Staff Liaison  
John Shea, Staff Liaison  
Mary Cherveney, Staff Liaison



## PROJECT MISSION

At the beginning of the project, the Project Team and the Advisory Committee developed a project mission statement, **defining the purpose of this Lakefront Master Plan** based on themes revealed through stakeholder engagement and input from the Advisory Committee:

To provide a long-term, sustainable strategy for the **preservation, protection, restoration, and enhancement of Winnetka's lakefront** for both Winnetka residents and a broad range of Lake Michigan user groups.

## PROJECT GUIDING PILLARS

To support the mission, the planning team established **seven** plan goals:

1. **Enhance recreation and open space facilities and programming for Winnetka residents.**
2. **Develop facilities with intergenerational appeal.**
3. **Facilitate safe and convenient access.**
4. **Support and enhance Lake Michigan ecosystems.**
5. **Adopt a sustainable operations model.**
6. **Expose and inform Winnetka residents to the value of the public lakefront.**
7. **Encourage and seek partnerships (public and private).**





## Existing Plans and Regulations



### IDNR COASTAL MANAGEMENT PROGRAM

Our plan adheres to core tenets of the idnr coastal management program:

1. Public access & recreation
2. Headland beach systems
3. Preserve, protect, restore, and enhance coastal resources for this and succeeding generations.



### COOK COUNTY DOG REGULATIONS

The proposed centennial dog beach will adhere to cook county dog park regulations as stipulated in the ordinance.



### SHABICA & ASSOCIATES

Document authored by Shabica & Associates presented to the Winnetka Park District board of commissioners March 24, 2022 on the study of Lake Michigan as it relates to shoreline improvements in Winnetka, Illinois. Proposed plan improvements are informed by significant study and guidance by local shoreline experts.





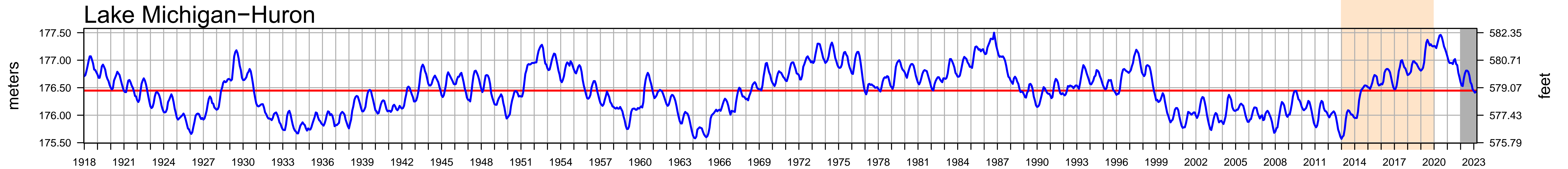


## Lake Michigan Water Levels



Great Lakes Water Levels (1918–2023)

— Monthly Mean Level      — Long Term Average Annual



DATA PROVIDED BY: US ARMY CORP OF ENGINEERS

SEE THE IMPACT AT LLOYD BEACH IN THE IMAGES BELOW

LLOYD BEACH, WINTER 2013



LLOYD BEACH, 2020



In January **2013**, Lake Michigan water dropped to its **lowest level** in more than 100 years, declining to **576.02** (IGLD 1985)

By **2020**, the Lake Michigan water level rebounded and exceeded the **100-year record high water** levels from January through August, reaching a peak of **582.22** in July of 2020.

The increase in water level of more than **6 feet** in just **seven years** was unprecedented.

**Erosion control measures and beach improvements need to be designed to protect against erosion and afford usable public access at varying lake levels.**

THIS GRAPH DEPICTS HOW LAKE MICHIGAN WATER LEVEL VARIES SEASONALLY OVER A PERIOD OF YEARS.



# Project History | Background Context



## PRIOR BEACH CONDITIONS



ELDER LANE BEACH  
SEPTEMBER 2020



CENTENNIAL BEACH  
SEPTEMBER 2020



ELDER LANE BEACH  
SEPTEMBER 2020



CENTENNIAL BEACH  
SEPTEMBER 2020



## Winnetka Waterfront 2030 Plan | PHASE 1



- A** Rubble-mound breakwater structure
- B** Stormwater management improvements
- C** Secure non-motorized water craft storage
- D** Existing boat house improvements
- E** Boardwalk improvements
- F** Vehicular circulation improvements and retaining walls
- G** New sheet-pile groin
- H** Bluff restoration
- I** Nature based play area
- J** Construct a new upper-level restroom building





## Winnetka Waterfront 2030 Plan | PHASE 2



**IMPROVEMENTS WITH PROPERTY ACQUISITION - PHASE 2**

- A** Rubble-mound breakwater structure
- B** Stormwater management improvements
- C** Secure non-motorized water craft storage
- D** Existing boat house improvements
- E** Boardwalk improvements
- F** Dune landscape restoration
- G** Bluff restoration
- H** Expand surface parking
- I** Nature based play area
- J** Construct a new upper-level restroom building
- K** Vehicular circulation improvements and retaining walls
- L** Lifeguard stations
- M** New sheet-pile groin
- N** Renovate single-family home into new beachfront event space
- O** New beach house









## PROJECT COST ESTIMATES

**Site Improvements**  
**Elder Lane Beach**  
**Preliminary Opinion of Probable Cost of Construction**

Prepared by: RED BARN Design & Engineering, Burke Engineering, Spaceco, The Lakota Group

Date: 11 April 2023



			<u>Quantity</u>	<u>Unit</u>	<u>Unit Rate</u>	<u>Item Total</u>	<u>Subtotal</u>
1	<b>1</b>	<b>Division 1 - General</b>					\$240,000
2		Mobilization/Demobilization	1	LS	\$125,000	\$125,000	
3		Survey/layout	1	LS	\$20,000	\$20,000	
4		Bonds/Insurance	1	LS	\$95,000	\$95,000	
5	<b>2</b>	<b>Site Preparation - Coastal Project Elements</b>					\$337,500
6		Pull/Remove North Sheet Pile Groin	5500	SF	\$15	\$82,500	
7		Remove Concrete Pier	1	LS	\$175,000	\$175,000	
8		Remove Concrete Rubble	1	LS	\$25,000	\$25,000	
9		Remove Concrete Ramp, Pavement, Stairs, and					
10		ADA Access Ramp at Beach House	1	LS	\$20,000	\$20,000	
11		Remove Gabion Mat South of Beachhouse	1	LS	\$10,000	\$10,000	
12		Remove Gabion Baskets North of Beachhouse	1	LS	\$25,000	\$25,000	
13	<b>3</b>	<b>Site Preparation - Upland Project Elements</b>					\$272,500
14		Remove and dispose of existing bluff staircase/handrail	450	SF	\$20	\$9,000	
15		Full-Depth Pavement Removal & Replacement (Asphalt Parking Lot ±4")	3100	SY	\$35	\$108,500	
16		Clearing	1	ALLOW	\$25,000	\$25,000	
17		Tree protection fencing	1	ALLOW	\$20,000	\$20,000	
18		Silt fence	1	ALLOW	\$5,000	\$5,000	
19		Filter Baskets	1	ALLOW	\$4,000	\$4,000	
20		Concrete Washout	1	ALLOW	\$4,000	\$4,000	
21		Site Construction fence/gates	1	ALLOW	\$30,000	\$30,000	
22		Geotextile	1	ALLOW	\$7,000	\$7,000	
23		Misc. site preparation	1	ALLOW	\$10,000	\$10,000	
24		Slope stabilization/erosion control	1	ALLOW	\$25,000	\$25,000	
25		Safety Fencing	1	ALLOW	\$10,000	\$10,000	
26		Mobilization	1	ALLOW	\$15,000	\$15,000	
27	<b>4</b>	<b>Breakwater Construction</b>					\$1,655,325
28		Excavation for Toe and Subbase Preparation	1900	CY	\$35	\$66,500	
29		Geotextile	1,540	SY	\$31	\$48,125	
30		Bedding Stone	2,000	TON	\$110	\$220,000	
31		Filter Stone	1,600	TON	\$150	\$240,000	
32		Armor Stone	5,530	TON	\$190	\$1,050,700	
33		Public Access Walkway to North - Stone Stairs	1	LS	\$30,000	\$30,000	
34	<b>5</b>	<b>South Steel Groin Armor Stone</b>					\$95,000
35		Armor Stone	500	TON	\$190	\$95,000	
36	<b>6</b>	<b>Beach Access Pad</b>					\$992,900
37		Steel Sheet Pile (assume 30' sheets)	9,300	SF	\$100	\$930,000	
38		Granular Fill	610	CY	\$40	\$24,400	
39		Concrete Cap	110	CY	\$350	\$38,500	
40	<b>7</b>	<b>Sheet Pile Bulkhead/Shoreline Improvements</b>					\$1,545,600
41		A. Sheet Pile Bulkhead and Gravel Fill					
42		Steel Sheet Pile (assume 30' sheets)	14,760	SF	\$100	\$1,476,000	
43		Granular Backfill	1,740	CY	\$40	\$69,600	
44		B. Shoreline Improvements					\$729,570
45		Wave Wall	290	LF	\$400	\$116,000	
46		Seawall Enhancements (Ipe bench-top/back on wave wall)	450	SF	\$100	\$45,000	
47		ADA concrete ramp to beach level	1100	SF	\$10	\$11,000	
48		ADA concrete ramp handrail	138	LF	\$220	\$30,360	
49		Boardwalk structure	2400	SF	\$65	\$156,000	
50		Concrete slab for boardwalk	2400	SF	\$22	\$52,800	
51		Ipe 5/4"x6" decking	2400	SF	\$45	\$108,000	
52		Boardwalk/Food truck pad railing/guardrail	337	LF	\$330	\$111,210	
53		Low level bollard safety lighting	1	LS	\$25,000	\$25,000	
54		Concrete pad for food trucks	2600	SF	\$22	\$57,200	
55		Metal staircase to beach level	1	LS	\$17,000	\$17,000	
56	<b>8</b>	<b>Sand Fill</b>	11,000	TON	\$40	\$440,000	\$440,000
57	<b>9</b>	<b>Storm Sewer Improvements</b>					\$1,694,000
58		A. Storm Sewer Improvements Not Including M-4					
59		Trench Backfill, Special	60	CY	\$75	\$4,500	
60		Storm Sewer, 36" RCP	54	LF	\$500	\$27,000	
61		Storm Sewer, 60" RCP	410	LF	\$750	\$307,500	
62		Manhole, 10' DIA, Type A, T1F CL (M-1)	1	Each	\$50,000	\$50,000	
63		Manhole, 10' DIA, Type A, T1F CL W/ Trash Rack (M-2)	1	Each	\$52,500	\$52,500	
64		Manhole, 10'x6' RCBC, Drop, T1F CL W/ 4' Sump and Steel plate (M-3)	1	Each	\$250,000	\$250,000	
65		Excavation/shoring for M-3	1	Each	\$250,000	\$250,000	
66		36" HDPE Pipe through breakwater	440	LF	\$650	\$286,000	
67		13'x200' Steel Sheet in Breakwater Over Pipes	2600	SF	\$15	\$39,000	
68		Storm Sewer, 60" Steel (Augered) (RB from Keefe)	140	LF	\$1,750	\$245,000	
69		Water Quality Structure - North	1	Each	\$90,000	\$90,000	
70		Water Quality Structure - South	1	Each	\$75,000	\$75,000	
71		24" Drainage Inlet	1	Each	\$7,500	\$7,500	
72		12" RCP Storm Sewer	100	LF	\$100	\$10,000	

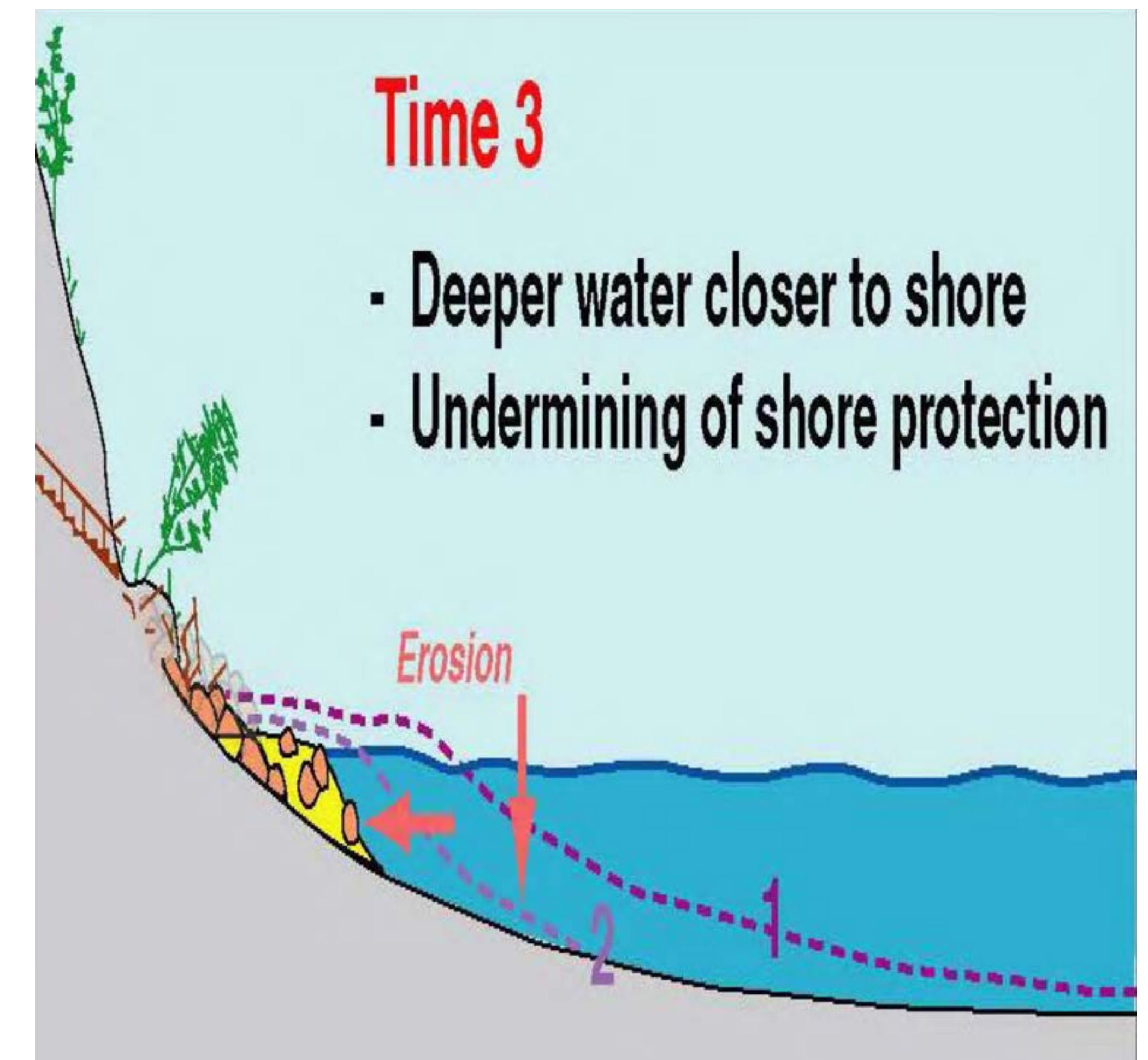
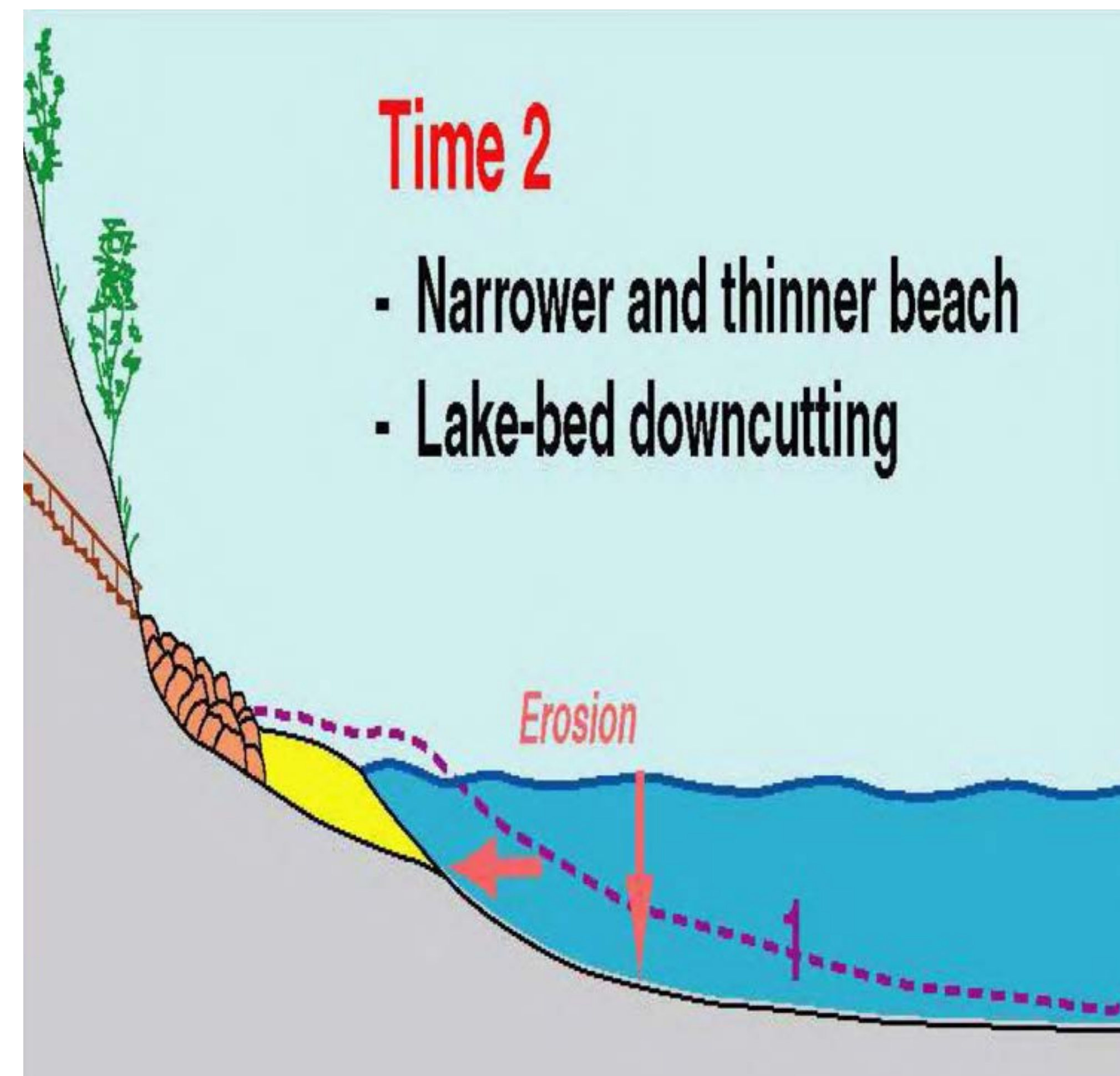
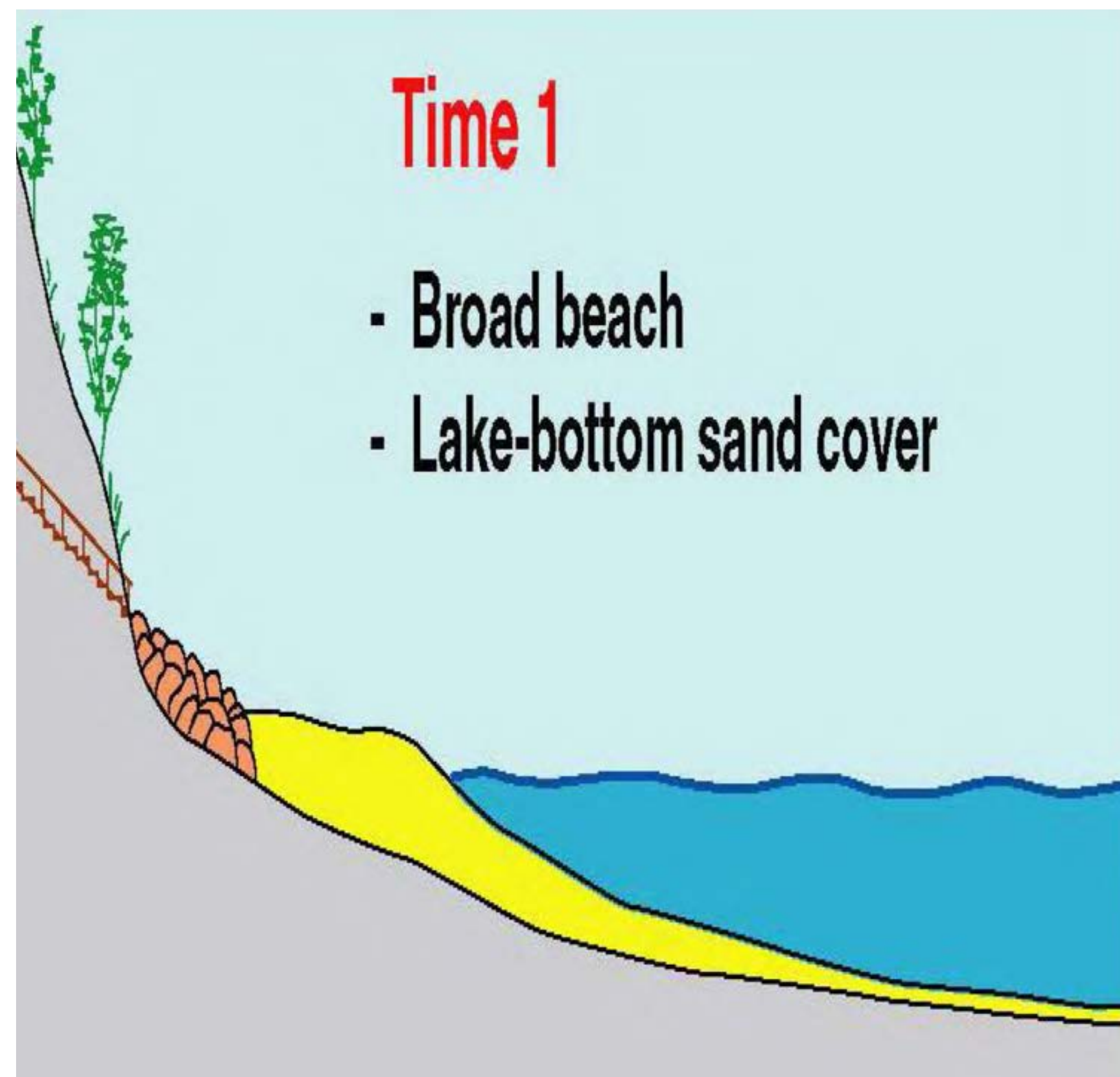






## LAKEBED DOWNCUTTING

Lakebed downcutting is a geological process by hydraulic action (waves) that deepens a lake by removing cohesive material from the lakebed (lakebed clay). The speed of downcutting depends on the lake's base water level, the lowest point to which the lake can erode.







## ELDER LANE | EXISTING CONDITIONS



ELDER LANE | SHORELINE  
SEPTEMBER 2021



ELDER LANE | FAILING GABION BLANKETS  
OCTOBER 2020



ELDER LANE | FAILING GABION BLANKETS  
OCTOBER 2020



ELDER LANE | FAILING PIER  
SEPTEMBER 2020





## LLOYD | PREVIOUS CONDITIONS



LLOYD STEEL SHEET PILE IN FRONT OF BOAT RACKS | ELEVATION 584.4  
OCTOBER 2019



LLOYD PIER | ELEVATION 583.3  
OCTOBER 2019



LLOYD BOAT HOUSE SHEET PILE + CONCRETE WALL | ELEVATION 586.5  
OCTOBER 2019



LLOYD BOAT HOUSE SHEET PILE + CONCRETE WALL | ELEVATION 586.5  
OCTOBER 2019



# Project History | Background Context



## PRIOR BEACH CONDITIONS



ELDER LANE BEACH  
SEPTEMBER 2020



CENTENNIAL BEACH  
SEPTEMBER 2020



ELDER LANE BEACH  
SEPTEMBER 2020



CENTENNIAL BEACH  
SEPTEMBER 2020





## Park Board Motions

### Motions As Approved by the Winnetka Park Board at the 2,401st Regular Board Meeting on October 27, 2022

#### 1. NOTICE TO CLOSE LAND EXCHANGE AGREEMENT

A roll call vote was taken on the motion made by Commissioner Seaman and seconded by Commissioner Archambault to "give notice to Orchard 2020 Revocable Trust to close on the Property Exchange Agreement, with closing to take place on or before January 20, 2023."

**Ayes:** Archambault, Codo, James, Lussen | **Nays:** Seaman | **Abstentions:** Rapp, Root | **Motion carried**

#### 2. AMEND WINNETKA WATERFRONT 2030 LAKEFRONT MASTER PLAN TO INCLUDE A DOG BEACH AT THE SOUTH END OF CENTENNIAL BEACH

A roll call vote was taken on the motion made by Commissioner Lussen and seconded by Commissioner Archambault to amend the Waterfront 2030 Lakefront Master Plan to Include a Dog Beach at the south end of Centennial Beach subject to the following conditions:

- Shore frontage allocated to dog beach use shall not be less than 170 ft and not be greater than 270 ft;
- The dog beach area must include a secure boundary to prevent dogs from straying beyond the borders of the dog beach while off leash;
- The electric gate system be relocated to the beach or boardwalk level to afford public access to the remainder of Centennial Beach; and
- Dog beach boundaries shall accommodate public passage along the lakefront.\*

**Ayes:** Archambault, Codo, James, Lussen, Rapp, Root, Seaman | **Nays:** None | **Motion carried as amended\***

#### 3. REAFFIRM USE OF HEADLAND BEACH SYSTEM AT ELDER LANE + CENTENNIAL BEACH

Following discussion, a roll call vote was taken on the motion made by Commissioner Codo and seconded by Commissioner Archambault to reaffirm the use of a headland beach system at Elder Lane and Centennial Beaches including rubble mound breakwater structures to create additional recreational area and to minimize loss of sand due to littoral transport.

**Ayes:** Archambault, Codo, James, Lussen, Rapp, Seaman | **Nays:** None | **Abstentions:** Root | **Motion carried**

#### 4. ADJUST DESIGN OF ELDER LANE PLAN 2A

A roll call vote was taken on the motion\* made by Commissioner James and seconded by Commissioner Archambault to resubmit all permits necessary to complete renovation of Elder Lane Park and Beach in keeping with Elder Plan 2A, and to proceed with the plan as considered October 13, 2022, subject to the following provisions:

- Plan to include vehicular access path as previously designed and depicted on prior plans, allowing construction and maintenance access to Elder Lane Beach from the existing Elder Lane parking lot;
- Plan to include replacement and re-routing of storm sewer from Sheridan Road to the new proposed discharge point within the outer edge of the rubble mound breakwater as previously designed and depicted on prior plans, subject to finalization of plans as guided by permit review comments from the several regulatory authorities and peer review from a licensed coastal engineer, and as approved by the Village of Winnetka;
- Adjust the height of proposed new stone breakwall at the north end of Elder to maximize panoramic views of the lake while ensuring adequate shoreline protection, subject to peer review by licensed coastal engineer;
- Remove the proposed viewing area on top of stone groin at Elder Lane Beach to minimize the height of the rubble mound breakwall and propose inclusion of a pedestrian viewing area to the top of a future rubble mound breakwall separating the dog beach from the public swimming beach at Centennial in a manner that extends the ADA accessible path to the top of the future rubble mound breakwall; and
- Amend Elder Plan 2A to remove proposed stone breakwater improvements abutting the existing steel groin adjacent to 261 Sheridan until final disposition of the Property Exchange Agreement is determined.

Following discussion, items "b" and "d" of the motion were amended as follows:

"b" "Plan to include replacement and re-routing of storm sewer from Sheridan Road to the new proposed discharge point within the outer edge of the rubble mound breakwater as previously designed and depicted on prior plans, subject to finalization of plans as guided by permit review comments from the several regulatory authorities and peer review from a licensed coastal engineer, and as approved by the Village of Winnetka," and "d" "Remove the proposed viewing area on top of stone groin at Elder Lane Beach to minimize the height of the rubble mound breakwall."

**Ayes:** Archambault, Codo, James, Lussen, Seaman | **Nays:** Rapp, Root | **Motion carried as amended\***

#### 5. INCORPORATE PEDESTRIAN ACCESS DOWN TO CENTENNIAL BEACH (ADA ACCESSIBLE PATH)

Following discussion, a roll call vote was taken on the motion made by Commissioner Lussen and seconded by Commissioner Archambault to incorporate a pedestrian access path that is compliant with ADA standards to Centennial beachfront as previously designed with continuously accessible path from existing Centennial parking lot to the boardwalk at elevation 590 ft or below. Commissioner Root suggested a waterfront advisory committee be formed to work with staff and consultants.

**Ayes:** Archambault, Codo, James, Lussen, Rapp, Root, Seaman | **Nays:** None | **Motion carried**





## Park Board Motions

### Motions As Approved by the Winnetka Park Board at the 2,401st Regular Board Meeting on October 27, 2022

#### 6. HOLD A SPECIAL BOARD MEETING JANUARY 21, 2023 FOR CENTENNIAL DESIGN REVIEW

Following discussion, a roll call vote was taken on the motion made by Commissioner James and seconded by Commissioner Archambault to hold a special board meeting for Centennial design review meeting beginning at 10 am, Saturday, January 21, 2023. Commissioner Seaman and Commissioner Lussen noted they would likely not be able to attend. Commissioner James stated the intent of the meeting would be to invite dialogue.

**Ayes:** Archambault, Codo, James, Lussen, Rapp, Root, Seaman | **Nays:** None | **Motion carried**

#### 7. REPLACEMENT OF COMMISSIONER COLLEN ROOT ON THE PROPERTY EXCHANGE AGREEMENT NEGOTIATION TEAM

No action was taken on the motion made by Commissioner Root and seconded by Commissioner Archambault to replace Commissioner Collen Root with Commissioner Christina Codo, and alternate Commissioner Mickey Archambault for the property exchange agreement negotiation team. Commissioner Seaman suggested Commissioner Archambault be removed from the motion. Commissioner Seaman felt it was not necessary to identify an alternate. Commissioner Root stated she had requested her removal from the team due to her opinion the Property Exchange Agreement has lapsed. She opined that the actions taken at this meeting show the Park District's willing to do whatever is needed to close this agreement. Commissioner Root stated it feels as if the Board has disregarded the law suit submitted, and expressed concern the Board is not operating with best practices as originally promised to the public.

Following discussion, a roll call was taken on the new motion made by Commissioner James to replace Commissioner Collen Root with Commissioner Christina Codo, with approval to recognize Commissioner David Seaman as the alternate for the Property Exchange Agreement negotiating team.

**Ayes:** Archambault, Codo, James, Lussen, Rapp, Root, Seaman | **Nays:** None | **Motion carried**

#### 8. AUTHORIZATION TO SECURE DESIGN PROPOSALS FOR ELDER LANE + CENTENNIAL BEACH DESIGN TEAM

No action was taken on the motion made by Commissioner Archambault and seconded by Commissioner Lussen to authorize Director of Parks and Maintenance Costa Kutulas to secure design proposals for Elder Lane + Centennial from The Lakota Group, Shabica & Associates, and a third party coastal engineer for consideration and vote on December 1, 2022. Commissioner Root requested the motion include a request for proposals to identify a third party coastal engineer. Commissioner James suggested there be a request for qualifications rather than proposals. Attorney Steve Adams noted it would be necessary to receive proposals in accordance with the Local Government Professional Services Selection Act. Commissioner Rapp questioned if there would be a need to receive proposals from any other vendors, and requested proposals include a cost breakdown for any subcontractors. Director Kutulas explained the proposal from The Lakota Group would be all inclusive of the full scope of work from start to finish.

Following discussion, a roll call vote was taken on the new motion made by Commissioner Root and seconded by Commissioner James to authorize Director of Parks and Maintenance Costa Kutulas to secure design proposals for Elder Lane + Centennial from The Lakota Group and Shabica & Associates, and to move forward with a request for proposals for a third party coastal engineer for consideration and vote.

**Ayes:** Archambault, Codo, James, Lussen, Rapp, Root, Seaman | **Nays:** None | **Motion carried**

#### 9. PEDESTRIAN ACCESS TO AND FROM WINNETKA PARK DISTRICT PROPERTY

A roll call vote was taken on the motion made by Commissioner Root and seconded by Commissioner Archambault to approve that the design parameters for the restoration and improvement of Centennial and Elder Lane Beaches include pedestrian access to and from Park District property to traverse the beachfront.

**Ayes:** Archambault, Codo, James, Lussen, Rapp, Root, Seaman | **Nays:** None | **Motion carried**





## Park Board Motions

### Motions As Approved by the Winnetka Park Board at the 2,406th Regular Board Meeting on February 23, 2023

#### 10. DISCUSSIONS OF CENTENNIAL DOG BEACH PROPOSED SIZE

After Commissioner James summarized the motion approved October 27, 2022 wherein the Board agreed to maintain a dog beach at the south end of Centennial Park not less than 170ft and not more than 270ft., no action was taken on the motion made by Commissioner Root and seconded by Commissioner Rapp to table the discussion until the next Committee of the Whole Meeting.

A roll call vote was taken on the motion made by Commissioner Rapp and seconded by Commissioner Seaman to approve the dog beach as measured from the south property line shall be no more than 236ft or current line of steel north and no less than 200ft in total width.

**Ayes:** Archambault, Codo, James, Lussen, Rapp, Seaman | **Nays:** None | **Abstentions:** Root | **Motion carried**

#### 11. CONSIDERATION FOR THE WINNETKA PARK DISTRICT TO WORK WITH RED BARN FOR THE ELDER LANE BEACH PROJECT

A roll call vote was taken on the motion made by Commissioner James and seconded by Commissioner Lussen to approve the contract, as proposed, subject to final counsel review, including for Red Barn Phase 1 Elder Lane Beach Project a total sum of \$421,695 broken down by phase as follows:

- Review + Concept/Preliminary Engineering Design: \$113,870
- Final Plan Design + Permitting: \$80,650
- Construction Documents: \$219,750
- Bidding: \$7,425

Centennial Beach Project: total sum of \$418,375 broken down by phase as follows:

- Review + Concept/Preliminary Engineering Design: \$108,920
- Final Plan Design + Permitting: \$88,250
- Construction Documents: \$213,780
- Bidding: \$7,425

A roll call vote was taken on the motion made by Commissioner Root and seconded by Commissioner Rapp stated in her amendment that Red Barn will move forward to secure bids for 3D hydrodynamic modeling from a subcontractor independent from Red Barn. A roll call vote was taken first for the requirement to secure bids for 3D hydrodynamic modeling from a subcontractor independent from Red Barn.

**Ayes:** Archambault, Lussen, Rapp, Root | **Nays:** Codo, James, Seaman | **Motion carried**

A roll call vote was taken on Commissioner James' original motion.

**Ayes:** Archambault, Codo, James, Lussen, Seaman | **Nays:** Rapp, Root | **Motion carried**

#### 12. CONSIDERATION TO FOR THE WINNETKA PARK DISTRICT TO WORK WITH THE LAKOTA GROUP FOR THE ELDER LANE + CENTENNIAL BEACH PROJECT

A roll call vote was taken on the motion made by Commissioner Codo and seconded by Commissioner Lussen to approve the proposal prepared by The Lakota Group. Director Kutulas outlined the total cost from various firms proposed to participate in the overall design work for the Elder Lane project and the Centennial project. Professional fees from these firms for the Elder Lane Park and Beach project work totals \$232,860 broken down as follows:

- The Lakota Group - Landscape Architect: \$105,860
- SPACECO, Inc. - Civil Engineer: \$27,000
- Christopher B. Burke, Ltd. - Structural Engineer: \$100,000
- Base project fee: \$232,860

Professional fees for the Centennial Park and Beach project work totals \$82,740 broken down as follows:

- The Lakota Group - Landscape Architect: \$72,740
- SPACECO, Inc. - Civil Engineer: \$10,000

Staff also assumes 4% of reimbursement expenses for a total cost of \$12,625. The total combined fee schedules presented by The Lakota Group is \$328,225 for the Elder Lane Park and Beach Project and the Centennial Park and Beach project including services as listed in the proposal.

**Ayes:** Archambault, Codo, James, Lussen, Rapp, Root, Seaman | **Nays:** None | **Motion carried**

#### 13. CONSIDERATION FOR THE WINNETKA PARK DISTRICT TO WORK WITH CHRISTOPHER B. BURKE ENGINEERING, LTD, ELDER LANE PARK STORM-WATER OUTFALL RELOCATION

Following the contract presented by Director Kutulas and answered questions from Commissioner Root, a roll call vote was taken on the motion made by Commissioner James and seconded by Commissioner Lussen to approve the proposal from Christopher B. Burke Engineering Ltd for the combined total not to exceed \$15,200 with the understanding that any outcomes that change the proposal costs be brought back to the Park Board for further consideration.

**Ayes:** Archambault, Codo, James, Lussen, Rapp, Root, Seaman | **Nays:** None | **Motion carried**





## *Park Board Motions*

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### **Motions As Approved by the Winnetka Park Board at the 2,408th Regular Board Meeting on March 23, 2023**

#### **14. CONSIDERATION TO AUTHORIZE STAFF + CONSULTANTS TO CONTINUE WITH THE PREPARATION OF PERMIT PLANS AND APPLICATIONS FOR PERMITS | MARCH 23, 2023**

A roll call vote was taken on the motion made by Commissioner Archambault and seconded by Commissioner Codo to authorize staff and consultants to continue with the preparation of permit plans and applications for permits to several agencies, including the Village of Winnetka, for Elder Lane Park and Beach in keeping with the motion passed October 27, 2022, acknowledging the refinements to the plan as reflected on the Elder Lane + Centennial Phase One plan dated March 18, 2023, including following conditions:

- a. Further refinements to the plan will be incorporated as recommended by staff, consultants and various reviewing agencies and permitting authorities;
- b. Upon incorporating the refinements and preliminary review comments, the consultants shall prepare an engineer's estimate of probable construction costs for the improvements included in Elder Phase One and shall submit the estimate for Board consideration;
- c. The proposed stone breakwater improvement abutting the existing steel groin adjacent to 261 Sheridan Road were reincorporated into the plan as recommended by consulting engineer to address safety concerns and prevent erosion; and
- d. Recognizing the storm sewer system is owned and operated by the Village of Winnetka, the Park District shall enter into an intergovernmental agreement with the Village of Winnetka to address the rights and responsibilities of each party with respect to the removal, relocation, and improvements to the storm sewer system.

No action was taken on the motion made by Commissioner Root and seconded by Commissioner Rapp to table Commissioner Archambault's motion.

A roll call vote was taken on Commissioner Archambault's original motion.

**Ayes:** Archambault, Codo, James, Lussen | **Nays:** Rapp, Root | **Motion carried**





## OUTLINE AND DRAFT MOTIONS

# Outline and Draft Motions Regarding Elder Lane + Centennial | For Consideration April 27, 2023

### PRIOR BOARD ACTION

#### OCTOBER 27, 2022

On October 27, 2022, the Winnetka Park District Board passed several motions pertaining to Elder and Centennial Parks and beaches. Included among these motions are:

Amend Winnetka Waterfront 2030 Lakefront Master Plan to include a dog beach at the south end of Centennial Beach subject to the following conditions:

- Shore frontage allocated to dog beach use shall not be less than 170 feet and not be greater than 270 feet;
- The dog beach area must include a secure boundary to prevent dogs from straying beyond the borders of the dog beach while off leash;
- The electric gate system be relocated to the beach or boardwalk level to afford public access to the remainder of Centennial Beach; and
- Dog beach boundaries shall accommodate public passage along the lakefront.

(Motion carried by a vote of 7-0)

Reaffirm the use of a headland beach system at Elder Lane and Centennial Beaches including rubble mound breakwater structures to create additional recreational area and to minimize loss of sand due to littoral transport. (Motion carried by a vote of 6-0 with one abstention)

Incorporate a pedestrian access path that is compliant with ADA standards to Centennial beachfront as previously designed with continuously accessible path from existing Centennial parking lot to the boardwalk at elevation 590 ft or below. (Motion carried by a vote of 7-0)

Approve that the design parameters of the restoration and improvement of Centennial and Elder Lane Beaches include pedestrian access to and from Park District property to traverse the beachfront. (Motion carried by a vote of 7-0)

Resubmit all permits necessary to complete renovation of Elder Lane Park and Beach in keeping with Elder Plan 2A, and to proceed with the plan as considered October 13, 2022, subject to the following provisions:

- Plan to include vehicular access path as previously designed and depicted on prior plans, allowing construction and maintenance access to Elder Lane Beach from existing parking lot.
- Plan to include replacement and re-routing of storm sewer from Sheridan Road to the new proposed discharge point within the outer edge of the rubble mound breakwater as previously designed and depicted on prior plans, subject to finalization of plans as guided by permit review comments from the several regulatory authorities and peer review from licensed coastal engineer, and as approved by the Village of Winnetka.
- Adjust height of proposed new stone breakwall at north end of Elder to maximize panoramic views of the lake while ensuring adequate shoreline protection, subject to peer reviewed by licensed coastal engineer.
- Remove proposed viewing area on top of stone groin at Elder Lane Beach to minimize the height of rubble mound breakwall.
- Amend Elder 2.A. Plan to remove proposed stone breakwater improvements abutting the existing steel groin adjacent to 261 Sheridan until final disposition of Exchange Agreement is determined.

(Motion carried by a vote of 5-2)

#### MARCH 23, 2023

On March 23, 2023, the Winnetka Park District Board passed a motion to:

Authorize staff and consultants to continue with the preparation of permit plans and applications for permits to the several agencies including the Village of Winnetka, for Elder Lane Park and Beach in keeping with the motion passed October 27, 2022, acknowledging the refinements to the plan as reflected on the Elder + Centennial | Phase One plan dated March 18, 2023, including the following conditions:

- Further refinements to the plan will be incorporated as recommended by Staff, Consultants and various reviewing agencies and permitting authorities.
- Upon incorporating the refinements and preliminary review comments the consultants shall prepare an engineers' estimate of probable construction costs for the improvements included in Elder Phase I and shall submit the estimate for Board consideration.
- The proposed stone breakwater improvement abutting the existing steel groin adjacent to 261 Sheridan Road were re-incorporated into the plan as recommended by the consulting engineer to address safety concerns and prevent erosion.
- Recognizing the storm sewer system is owned and operated by the Village of Winnetka the Park District shall enter into an intergovernmental agreement with the Village of Winnetka that addresses the rights and responsibilities of each party with respect to the removal, relocation and improvements to the storm sewer system.

(Motion carried by a vote of 4-2)

### PUBLIC ENGAGEMENT

Since March 2022, the Park District has regularly sought and received extensive public engagement concerning the Elder Lane and Centennial Beach and Park projects, including but not limited to:

- Ten regular board meetings between June 9, 2022, and March 31, 2023 (includes combined Park Board and Committee of the Whole meetings),
- Seven Committee of the Whole meetings,
- Two special board meetings, and
- Four "Chats with Commissioners"

At these meetings, the public supplied hours of detailed comments, studies, and opinions concerning all aspects of the improvements at Elder Lane Park and Beach and Centennial Park and Beach under consideration by the Park Board.

In addition to these Board meetings, the Park District held many open house/workshop meetings, including the following:

July 18, 2022: The Winnetka Park District held an Open House/Workshop and Workshop affording the public the opportunity to view proposed Centennial Beach design elements at Centennial Beach, view the existing breakwater at Lloyd Beach to provide context, and share ideas during a community workshop meeting at the Hubbard Woods Elementary School auditorium during which the public could engage with Park District Commissioners, Staff and Consultants.

August 25, 2022: The Winnetka Park District held an Open House/Workshop affording the public the opportunity to view proposed Centennial Beach design elements at the Hubbard Woods Elementary School auditorium during which the public could engage with Park District Commissioners, Staff and Consultants.

January 21, 2023: The Winnetka Park District held an Open House/Workshop affording the public the opportunity to review the history and plans for Elder and Centennial Park improvements and engage with Park District Commissioners, Staff and Consultants.

March 18, 2023: The Winnetka Park District held an Open House/Workshop to afford the public the opportunity to review revised and updated plans for Elder and Centennial Park improvements and engage with Park District Commissioners, Staff and Consultants.

April 15, 2023: The Winnetka Park District will hold (held) an Open House/Workshop to afford the public the opportunity to review the further revised and refined plans for Elder and Centennial Park improvements and engage with Park District Commissioners, Staff and Consultants.





## OUTLINE AND DRAFT MOTIONS

# Outline and Draft Motions Regarding Elder Lane + Centennial | For Consideration April 27, 2023

### DESIGN APPROVAL

During the Winnetka Park District's April 27, 2023, Regular Board Meeting, the Park District's staff and consultants will present updated plans for both Elder and Centennial Parks and Beaches, which will include three basic program elements:

1. Non-motorized boating (standup paddle boards and kayaks) at Elder Beach
2. Swimming at the north side of Centennial Beach
3. Off-leash dog beach at the south side of Centennial Beach

The plans will include the following design features:

1. Headland Beach System
2. ADA accessible pathway from Centennial parking lot to the boardwalk elevation
3. Pedestrian access to and from park district property allowing the public to traverse the lakefront including steps up and over any improvements perpendicular to the shoreline
4. Relocated electric key-card operated entry gate to the dog beach (to be relocated to the boardwalk elevation)
5. Public access to remainder of Centennial Beach from Centennial Park
6. Vehicular access path from Elder Lane parking lot to Elder Lane Beach for use by maintenance and emergency purposes and pedestrian access for beach patrons
7. Re-located and improved Elder Lane storm sewer discharge

The updated plans will provide for the basic program elements and design features, subject to further revisions as directed by the Board or as recommended by professional consultants, and/or required by permitting agencies.

In addition to the specific plans for Elder and Centennial Park improvements, the Park District's staff and consultants have prepared and will provide updated estimates of probable construction costs which correspond to the proposed plans. The estimates identify costs for various design features of the proposed plan and phase of implementation. The staff and consultants also will provide a projected schedule for the permitting, review, and construction processes. The Park District acknowledges the Village of Winnetka owns and operates the storm sewer system which discharges at Elder Lane Beach. The Park District's cost estimates will segregate costs attributable to the storm sewer improvements for the parties' consideration in future discussions concerning the Park District and Village intergovernmental agreement referenced in the Park Board's March 23, 2023, motion. The Park District will also present a Resolution summarizing its proceedings and documenting its findings related to the project, for Board consideration/approval May 25, 2023. This Resolution will be presented for initial review at the May 11, 2023, Committee of the Whole meeting, with final consideration at the May 25, 2023, regular board meeting.

### PROPOSED APRIL 27, 2023 MOTIONS

The motions to be considered by the Park Board April 27, 2023, are to approve the program elements and design features for Elder and Centennial Parks and Beaches and direct staff to proceed with plan preparation and permit applications for the proposed improvements. The motions acknowledge further refinements to the plans are likely due to permit review comments and value engineering efforts without substantially changing the program elements or design features. The motions also recognize the development will most likely be completed in phases to accommodate certain provisional issues, including financing contingencies, and the potential acquisition of 261 Sheridan Road. The motions anticipated at this time include:

**MOTION #1:** I make a motion to approve the primary program elements for Elder and Centennial Beaches to include:

- Non-motorized boating (standup paddle boards and kayaks) at Elder Beach,
- Swimming at the North side of Centennial Beach, and
- Off-leash dog park at the south side of Centennial Beach

and to approve the following design features for Elder and Centennial Parks and Beaches including:

- Headland Beach System comprised of rubble-mound breakwalls to create additional recreational area and minimize the loss of sand from littoral transport;
- ADA accessible pathway from Centennial parking lot to the boardwalk elevation;
- Pedestrian access to and from Park District property allowing the public to traverse the lakefront including steps up and over any improvements perpendicular to the shoreline;
- Relocated entrance to the dog beach such that the electric key-card operated entry gate is at the boardwalk elevation allowing Public access to remainder of Centennial Beach from Centennial Park;
- Vehicular access path from Elder Lane parking lot to Elder Lane Beach for use by construction, maintenance and emergency purposes and pedestrian access for beach patrons;
- Re-located and improved Elder Lane storm sewer with discharge point within the outer edge of the rubble mound breakwater;

as depicted in Drawings prepared by The Lakota Group, as Drawing # \_\_\_\_\_, dated \_\_\_\_\_. [incorporate list of drawings]

**MOTION #2:** I make a motion to authorize and direct staff and consultants to (A) prepare permit drawings and plans for the Elder Lane Park and Beach and Centennial Park and Beach improvements, based on the program elements and design features just approved by the Board, and (B) prepare and submit all required permit applications including but not by limitation, applications to the United States Army Corps of Engineers, the Illinois Department of Natural Resources, the Metropolitan Chicago Water Reclamation District, the Illinois Environmental Protection Agency, and the Village of Winnetka, for improvements to Elder Lane Park and Beach and Centennial Park and Beach, subject to the following conditions:

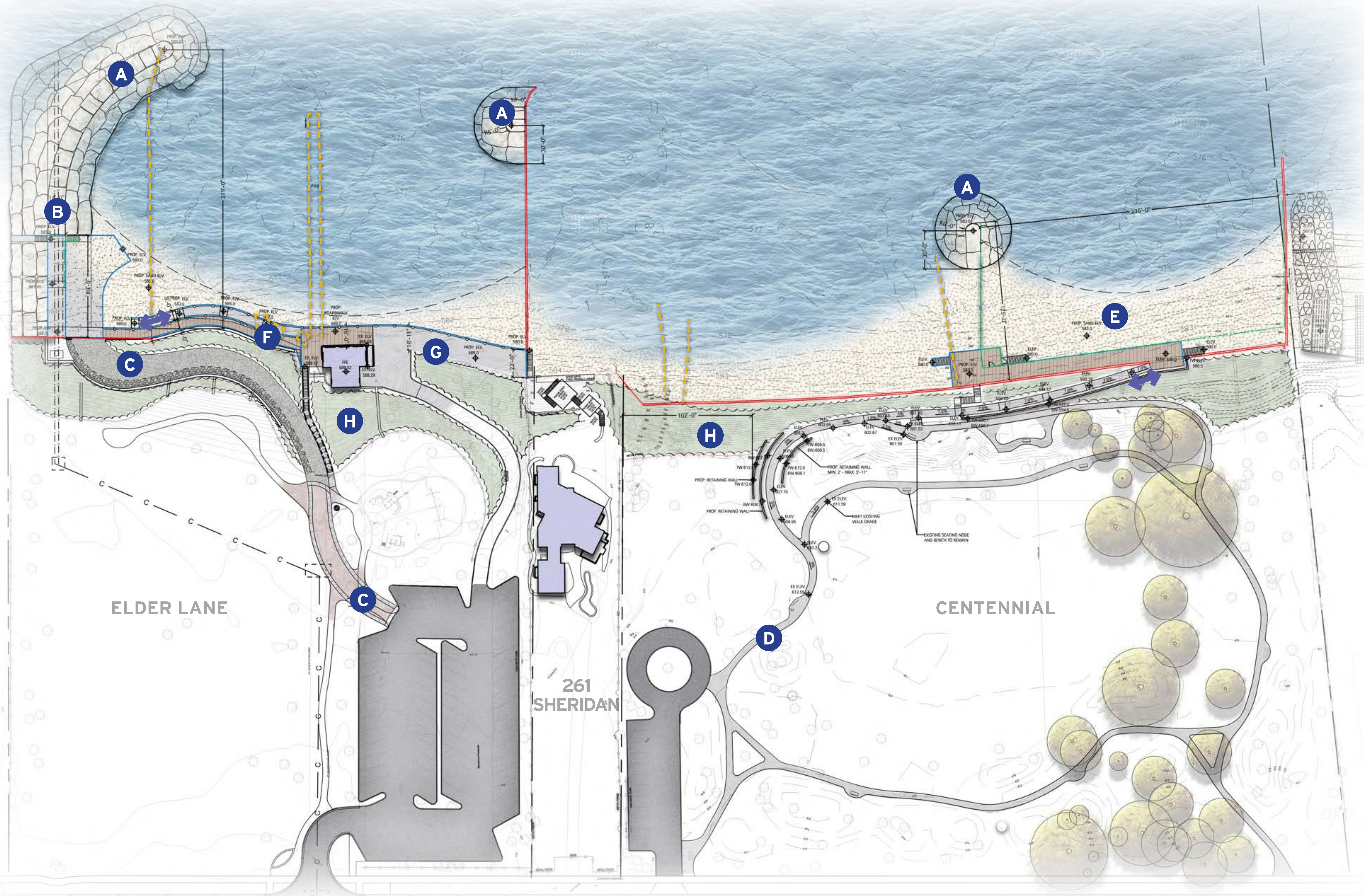
- A. Refinements required by the reviewing agencies shall be presented to the Board for further consideration; and
- B. Updated estimates of cost shall be prepared by staff and consultants and provided to the Board as new cost information becomes available.

**MOTION #3:** I make a motion to approve the preliminary project schedule, project cost estimate(s) and project financing plan, authorize and direct staff to refine the long-range capital plan budget and develop the detailed project financing plan.


















# Design and Concept Plans



### LEGEND

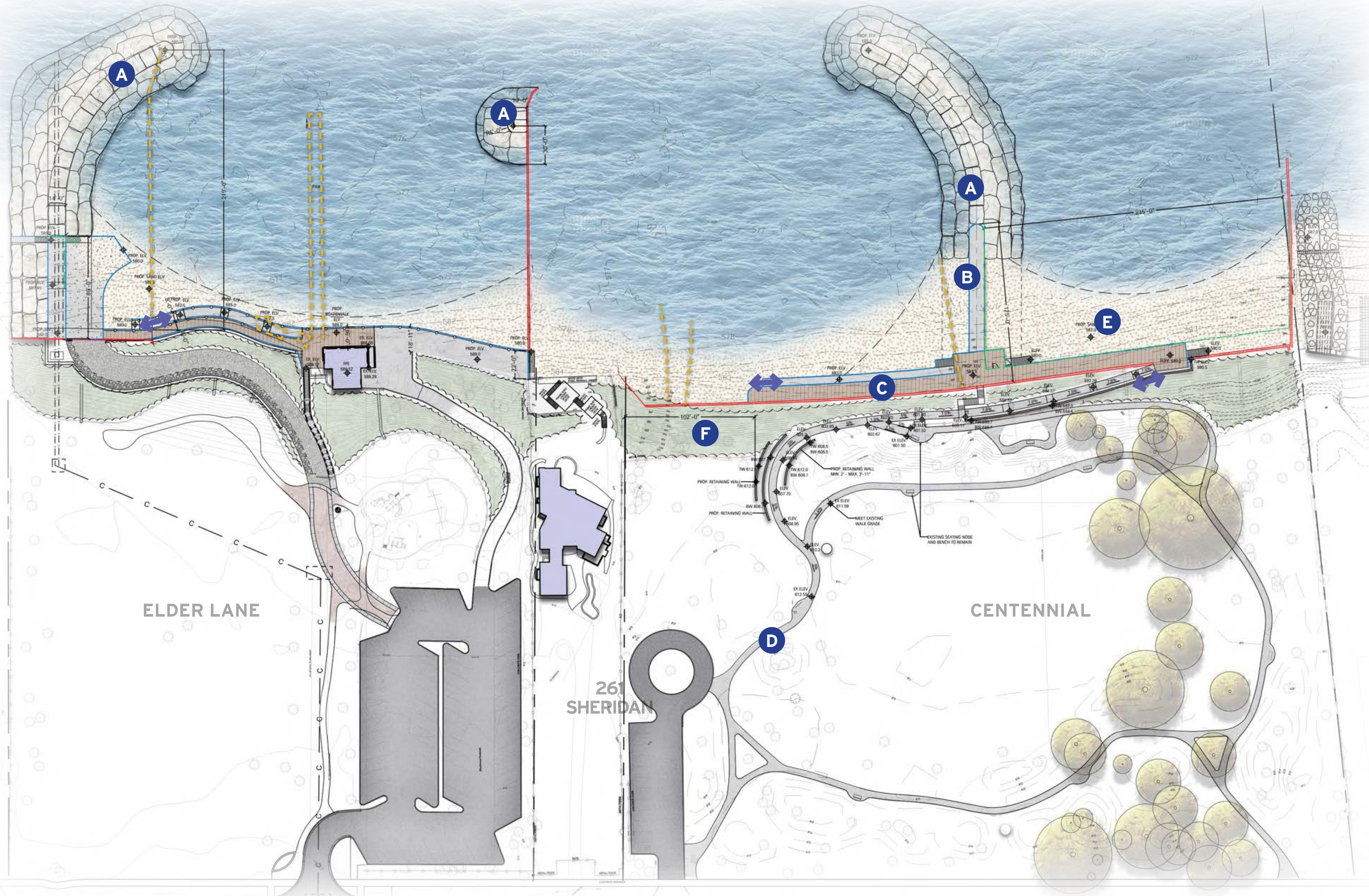
-  PROPOSED BLUFF RESTORATION
-  ACCESS TO BEACH
-  SHEET PILE (PROPOSED)
-  SHEET PILE (EXISTING)
-  ITEM TO BE REMOVED
  
-  STONE BREAKWATER SYSTEM  
SHORELINE PROTECTION
-  PROPOSED STORMWATER REROUTE
-  CONSTRUCTION ACCESS ROUTE  
(FUTURE PEDESTRIAN ONLY)
-  ACCESSIBLE PEDESTRIAN PATH  
TO BEACH
-  PROPOSED CENTENNIAL DOG BEACH
-  BOARDWALK AND BEACH ACCESS
-  PAD FOR FOOD TRUCKS AND SEATING
-  BLUFF RESTORATION
















# Design and Concept Plans

## ELDER | CENTENNIAL BEACH FEASIBILITY STUDY



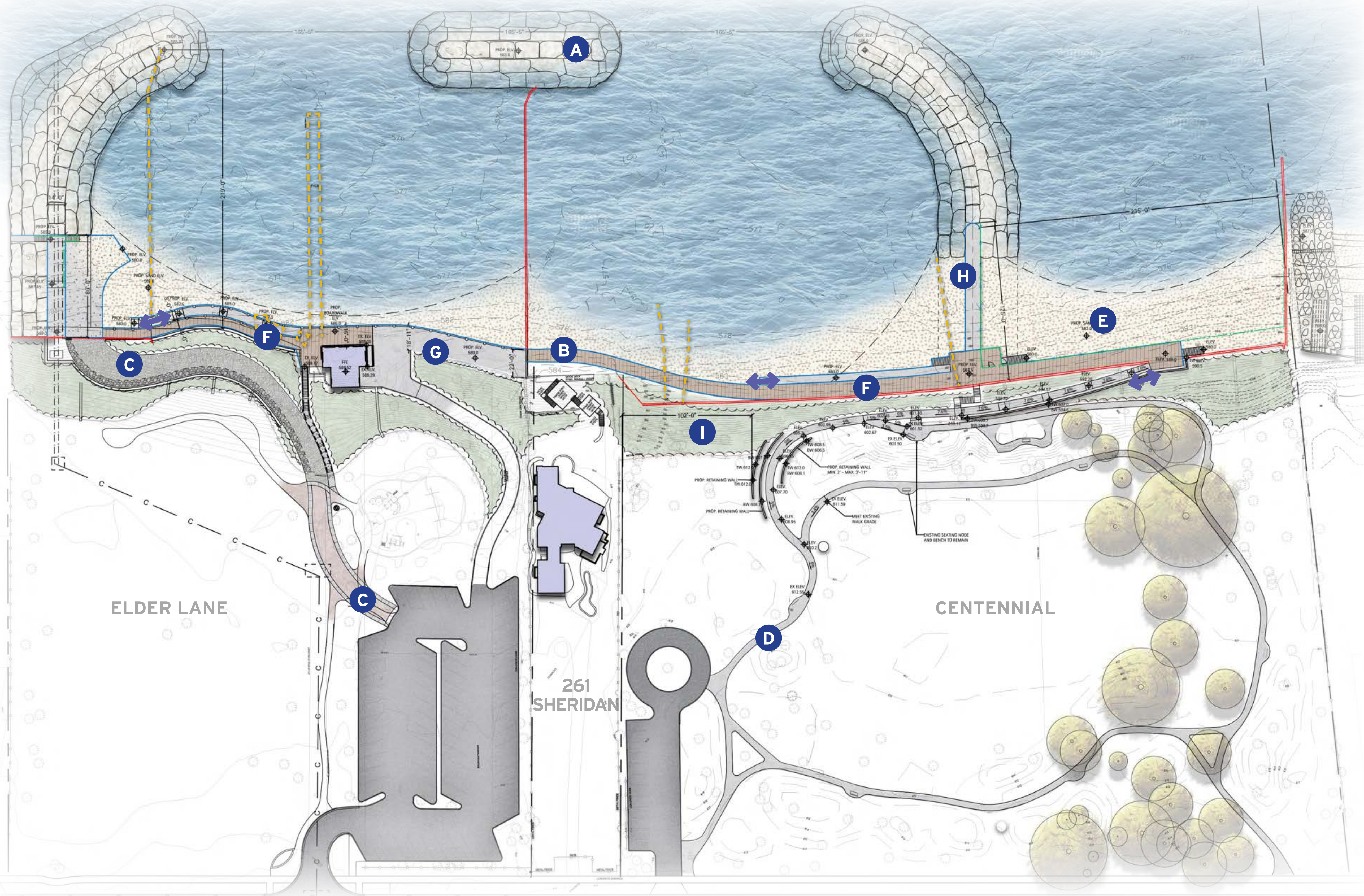
### LEGEND

-  PROPOSED BLUFF RESTORATION
-  ACCESS TO BEACH
-  SHEET PILE (PROPOSED)
-  SHEET PILE (EXISTING)
-  ITEM TO BE REMOVED
  
-  STONE BREAKWATER SYSTEM  
SHORELINE PROTECTION
-  ACCESSIBLE VIEWING PIER WITH  
BENCH SEATING
-  BOARDWALK AND BEACH ACCESS
-  ACCESSIBLE PEDESTRIAN PATH  
TO BEACH
-  PROPOSED CENTENNIAL DOG BEACH
-  BLUFF RESTORATION





# Design and Concept Plans



**LEGEND**

- PROPOSED BLUFF RESTORATION
- ACCESS TO BEACH
- SHEET PILE (PROPOSED)
- SHEET PILE (EXISTING)
- ITEM TO BE REMOVED
  
- A STONE BREAKWATER ISLAND SHORELINE PROTECTION
- B BOARDWALK CONNECTION
- C CONSTRUCTION ACCESS ROUTE (FUTURE PEDESTRIAN ONLY)
- D ACCESSIBLE PEDESTRIAN PATH TO BEACH
- E PROPOSED CENTENNIAL DOG BEACH
- F BOARDWALK AND BEACH ACCESS
- G PAD FOR FOOD TRUCKS AND SEATING
- H ACCESSIBLE VIEWING PIER WITH BENCH SEATING
- I BLUFF RESTORATION







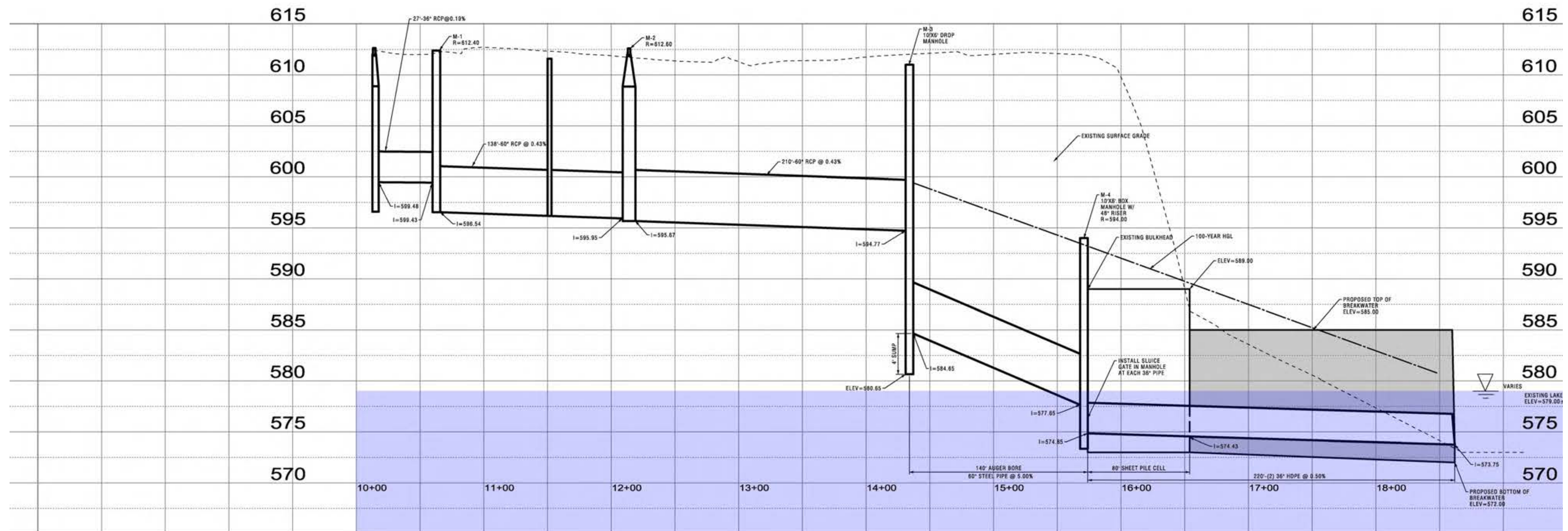
### PHASE ONE STORMWATER



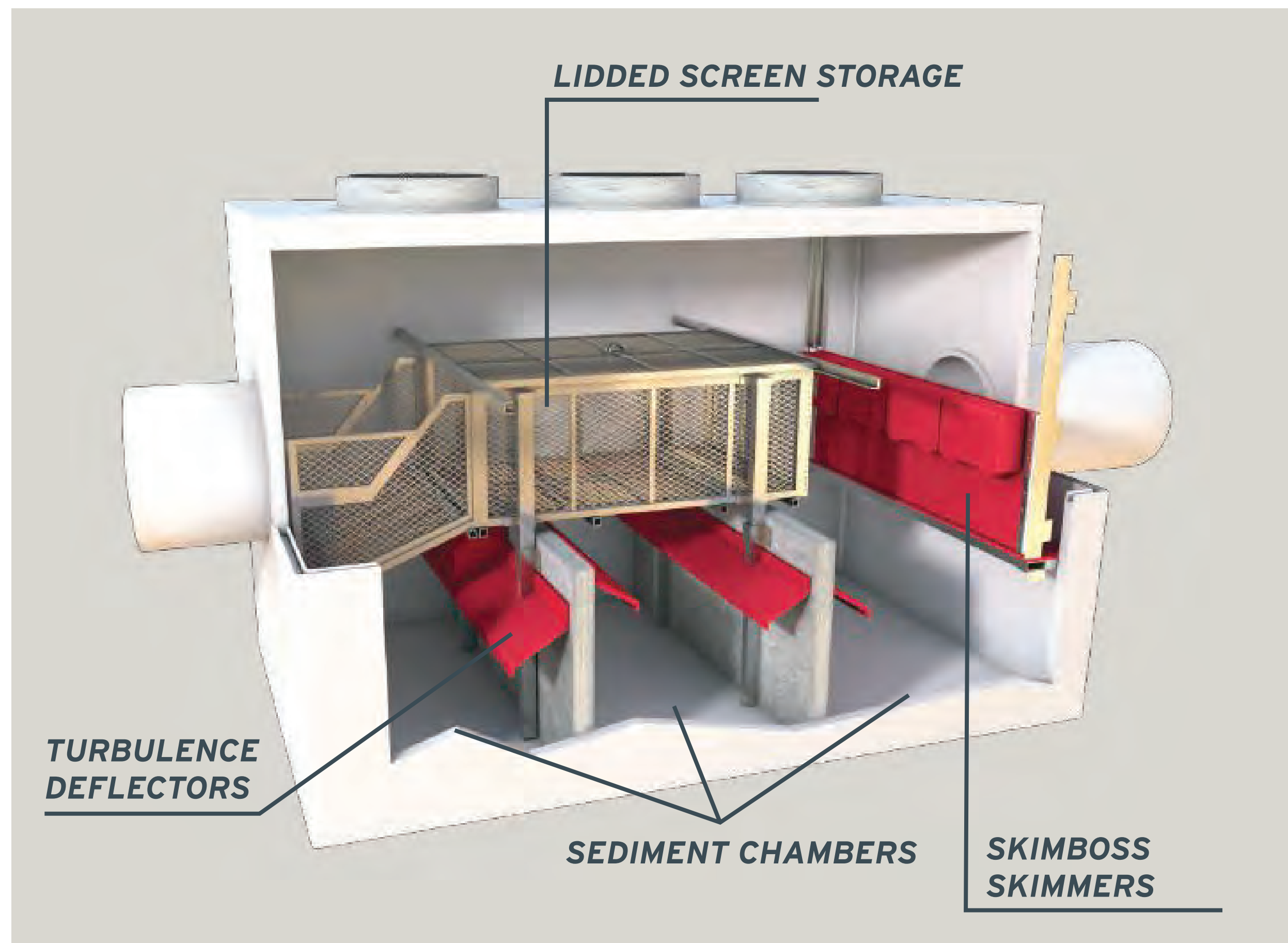




PHASE ONE STORMWATER RELOCATED





**ELDER LANE + CENTENNIAL PHASE ONE**


## TWIN NUTRIENT SEPARATING BAFFLE BOXES

- BOTH BOXES ARE MULTI-STAGED SELF CONTAINED TREATMENT SYSTEMS
- EACH SUBSEQUENT COMPONENT WITHIN THE SYSTEM PROTECTS PRIOR STAGES FROM CLOGGING ISSUES OR FAILURES
- THESE STAGES INCLUDE FILTRATION, HYDRODYNAMIC SEPARATION AND HYDROCARBON ABSORPTION
- REMOVAL RATES ARE 20% NITROGEN, 19% PHOSPHOROUS, 90% TSS
- THE KEY REMOVAL RATE IS SEDIMENT, AS SEDIMENT IS KNOWN TO "CARRY" OTHER POLLUTANTS FOR A RIDE
- REMOVAL OF THE VEHICLE IN THIS CASE IS ESSENTIAL TO POLLUTANT REMOVAL IN STORMWATER RUNOFF
- THESE UNITS CAPTURE THOUSANDS OF POUNDS OF DEBRIS, SEDIMENT, AND NUTRIENTS
- THE PREVIOUS OUTFALL CONFIGURATION DID NOT HAVE WATER QUALITY TREATMENT





# Design Details and Studies



## HEADLAND BEACH SYSTEMS

Headland Beach Systems are a type of shore protection that also provide recreational and aesthetic benefits. These engineered pocket beaches are held by groins or rubble-mound breakwater headlands. These beach systems have the advantage of: 1) creating a contained beach that is not dependent on any influx of sand from littoral transport, and 2) creating a beach that will minimize loss of sand to littoral transport



**WINNETKA**  
LLOYD BEACH



**HIGHLAND PARK**  
ROSEWOOD BEACH



**LAKE FOREST**  
FOREST PARK BEACH



**LAKE BLUFF**  
SUNSET PARK BEACH





## DESIGN ELEMENTS + AMENITIES



**IPE BOARDWALK**  
DURABLE NATURAL DECKING, FADES TO SILVER GRAY  
MATERIAL VERNACULAR USED THROUGHOUT WINNETKABEACHES



**SITE FURNITURE**  
STANDARD PARK DISTRICT BENCHES



**SITE AMENITIES**  
STANDARD PARK DISTRICT LITTER RECEPTACLES



**STEEL SEAWALL**



**BEACH SAND**  
SAND USED AT LLOYD BEACH

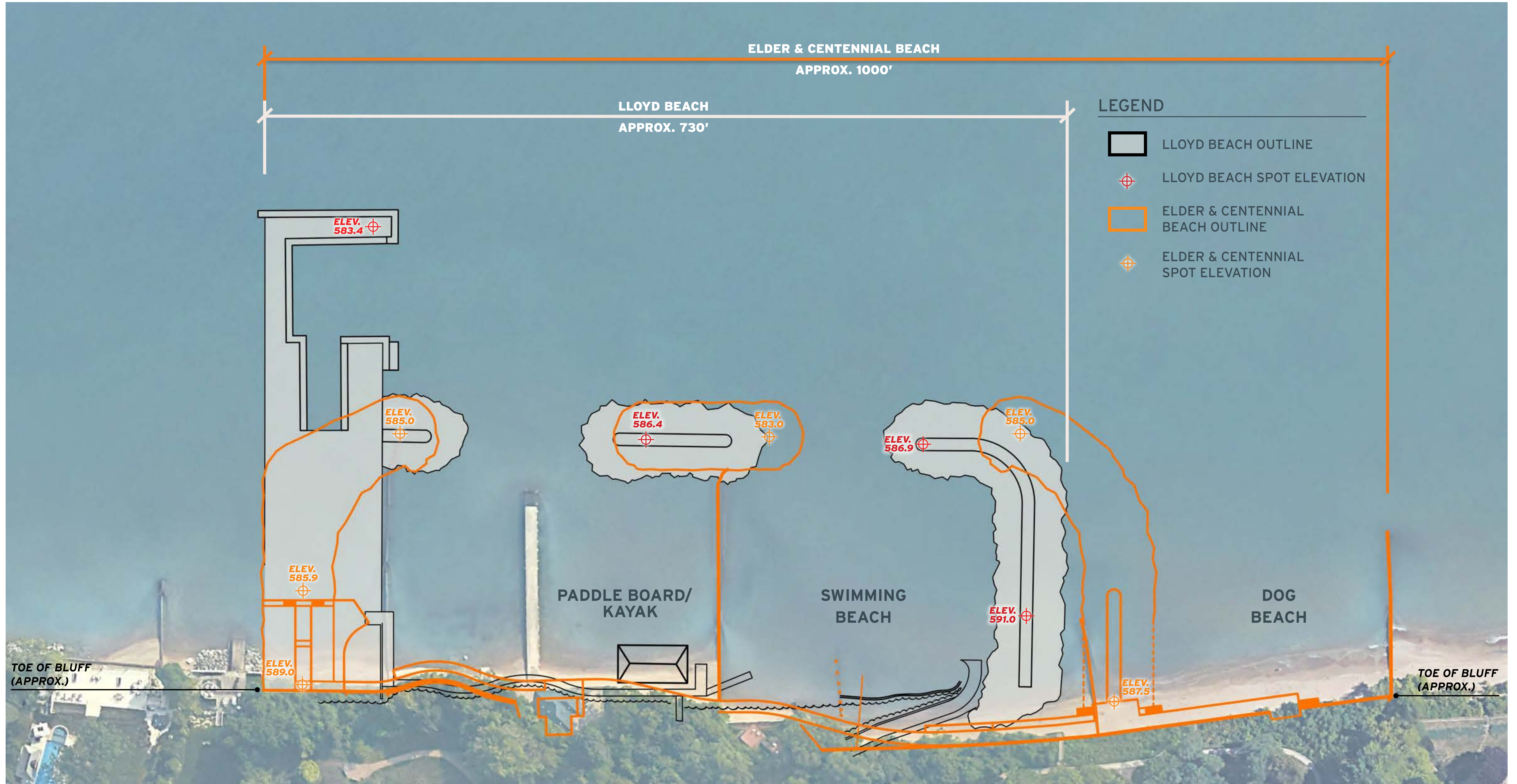


**INTEGRATED STONE STEPS**  
STONE STEPS USED AT LLOYD BEACH





### Plan Overlay Comparison | Lloyd Beach vs. Elder & Centennial



Please note: this graphic does not currently take into consideration the property exchange agreement.

### SCALED VISUAL COMPARISON

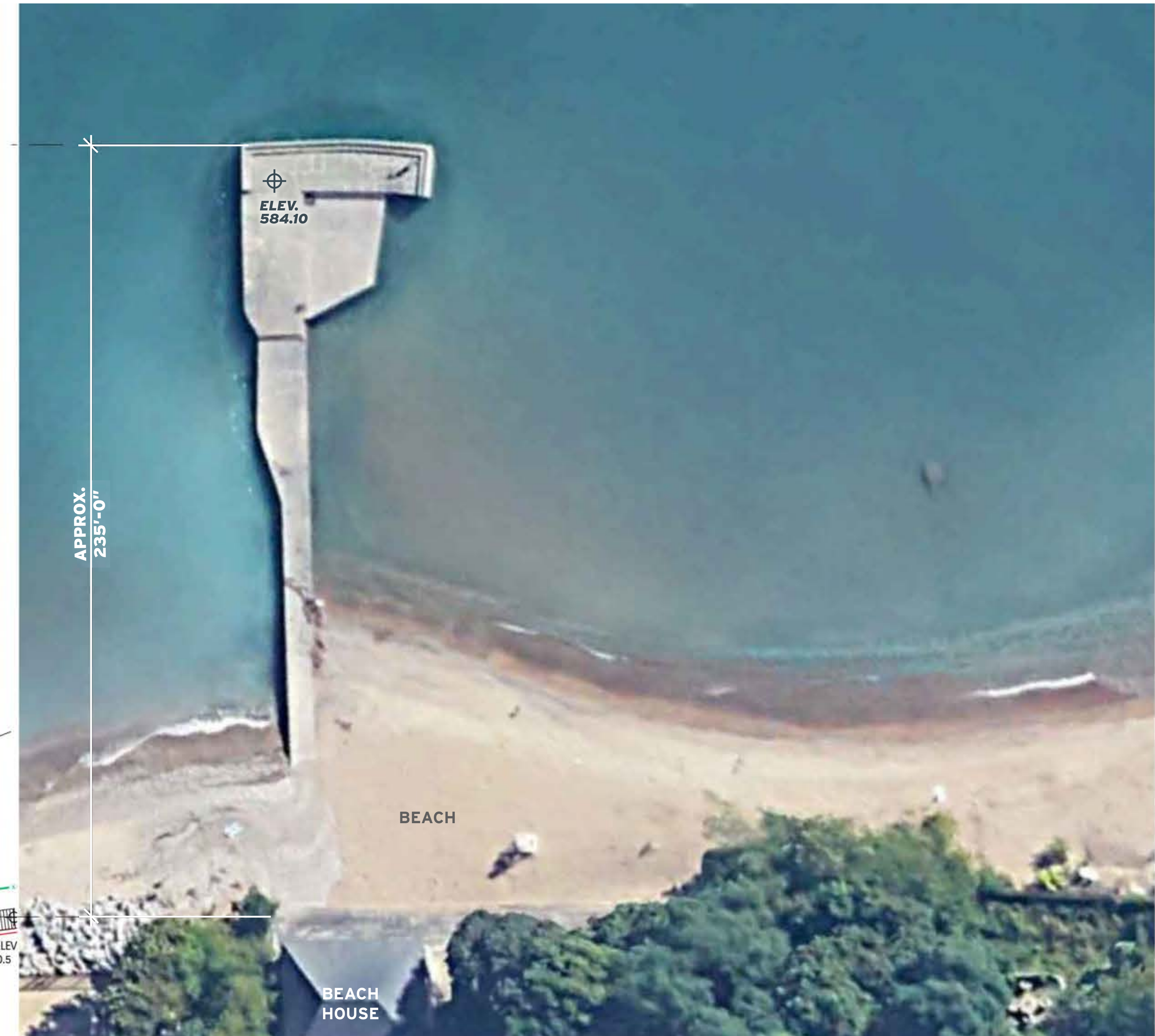
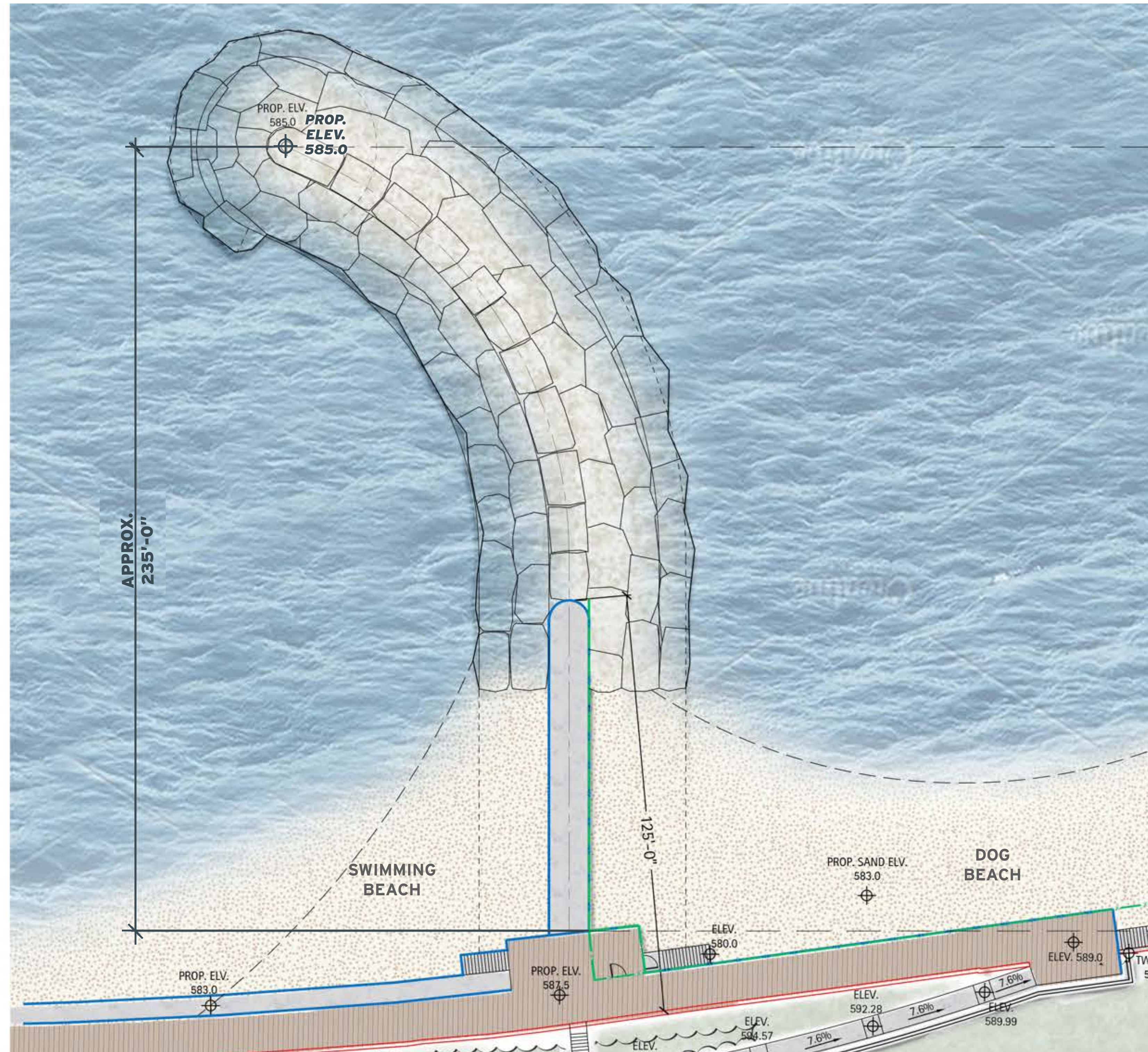




### Plan Overlay Comparison | Maple Beach vs. Elder & Centennial

**PROPOSED CENTENNIAL BEACH**

**MAPLE STREET BEACH**



DRAFT PLAN 4/15/23

CENTENNIAL



MAPLE







## AERIAL OVERLAY COMPARISON | LLOYD VS. ELDER LANE + CENTENNIAL



Lloyd Beach = 730lf

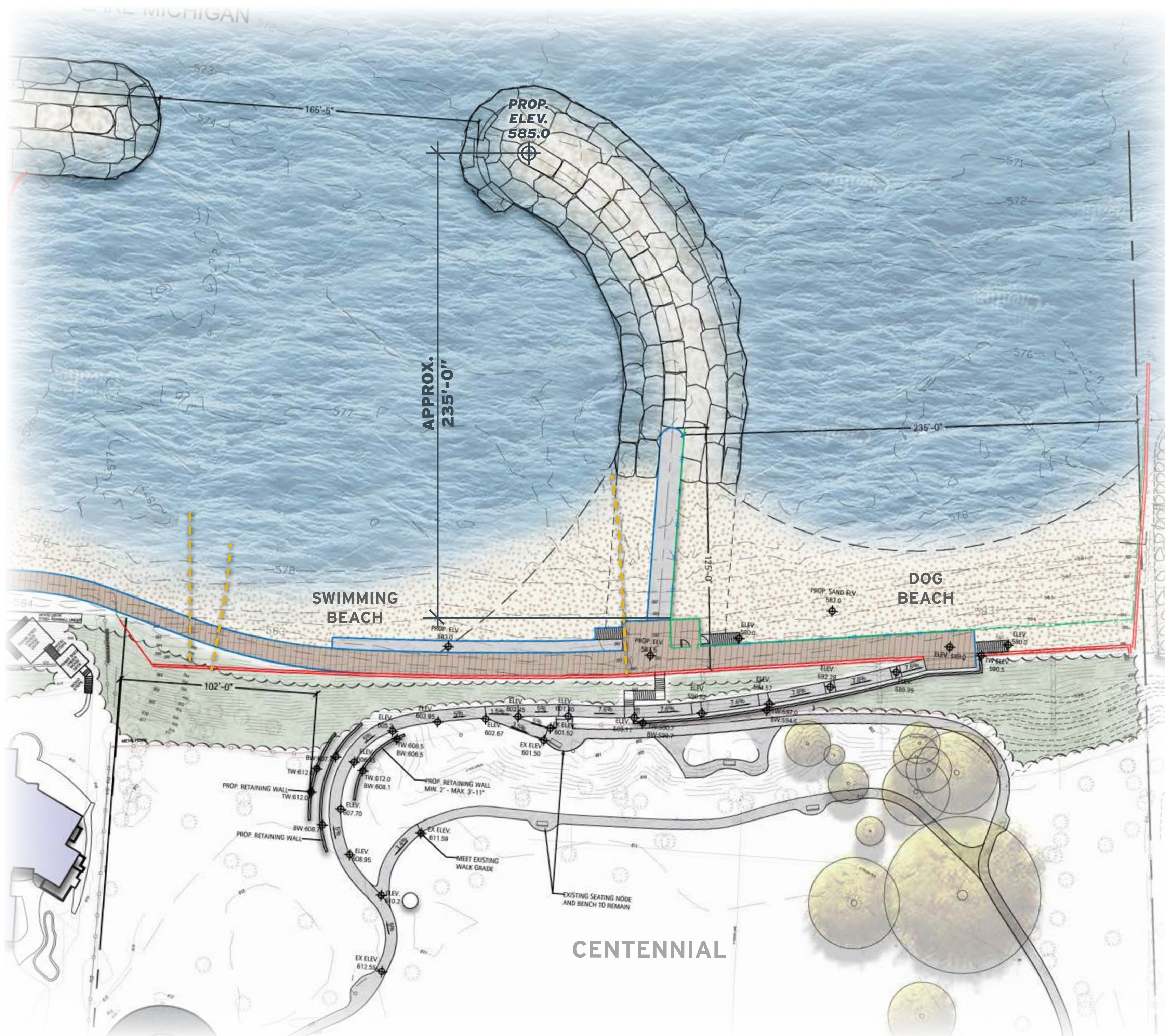
Elder Lane + Centennial Beach = 1,000lf





### Plan Overlay Comparison | Maple Beach vs. Elder & Centennial

#### PROPOSED CENTENNIAL BEACH



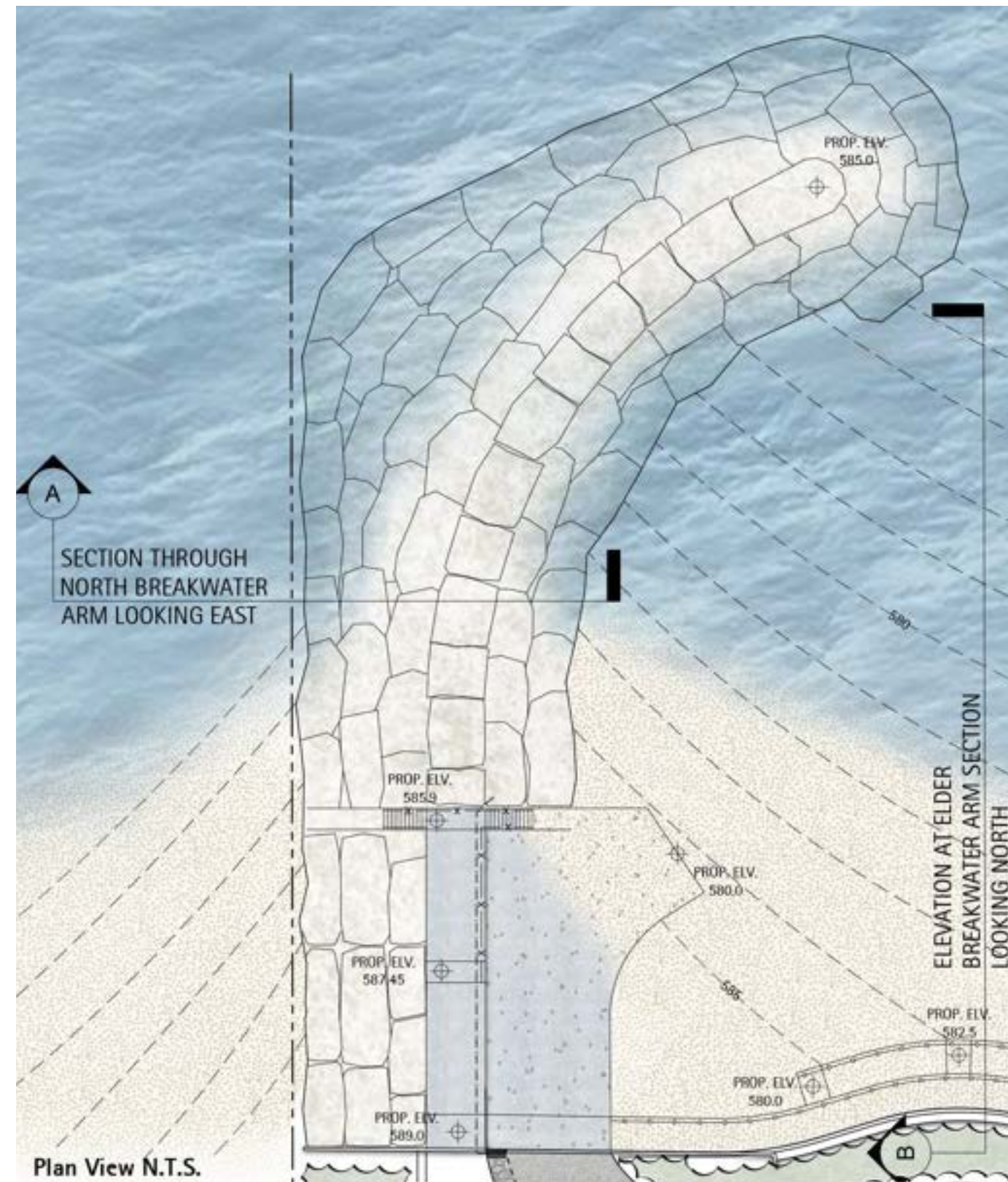
#### MAPLE STREET BEACH







## Breakwater Systems | Proposed & Existing Height Comparisons

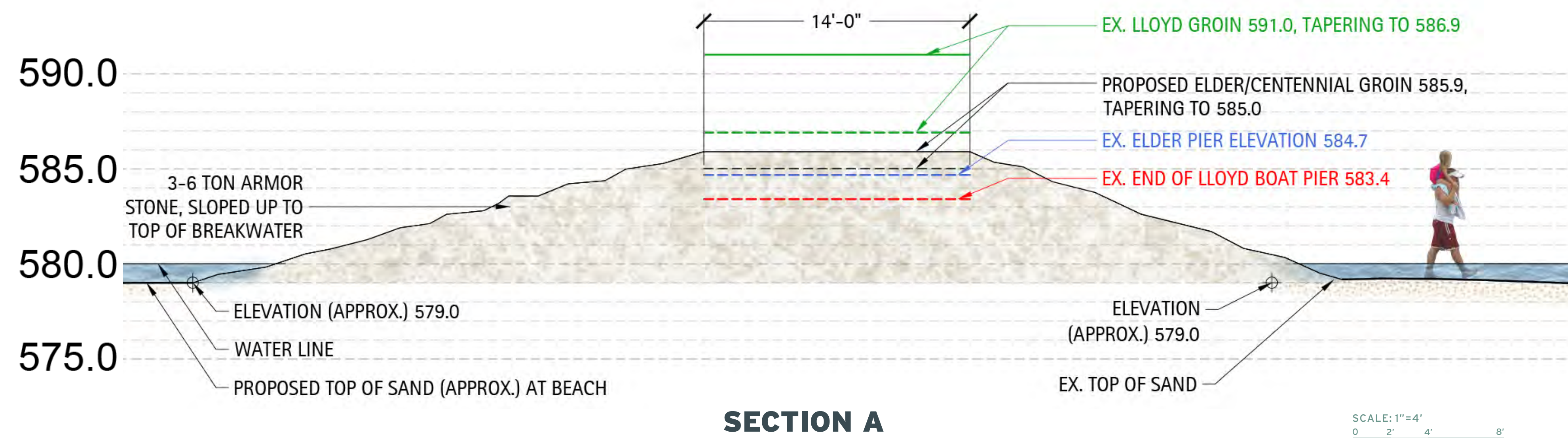


SCALE: 1"=8'  
0 4' 8' 16' NORTH

DRAFT PLAN 4/15/2023

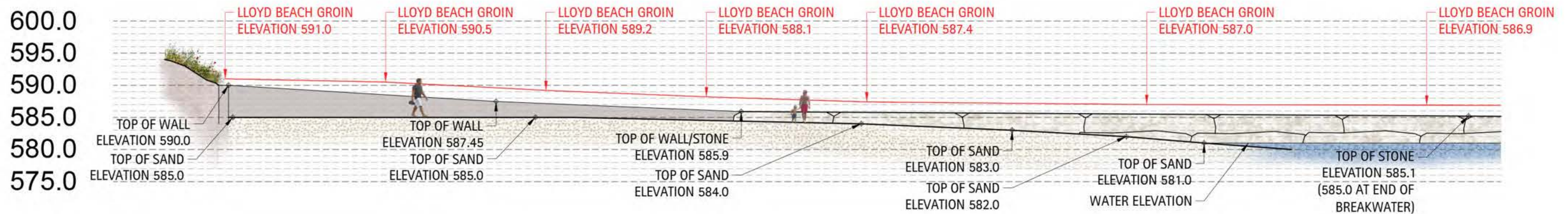


ELDER LANE BEACH  
AUGUST 2015



SECTION A

SCALE: 1"=4'  
0 2' 4' 8'



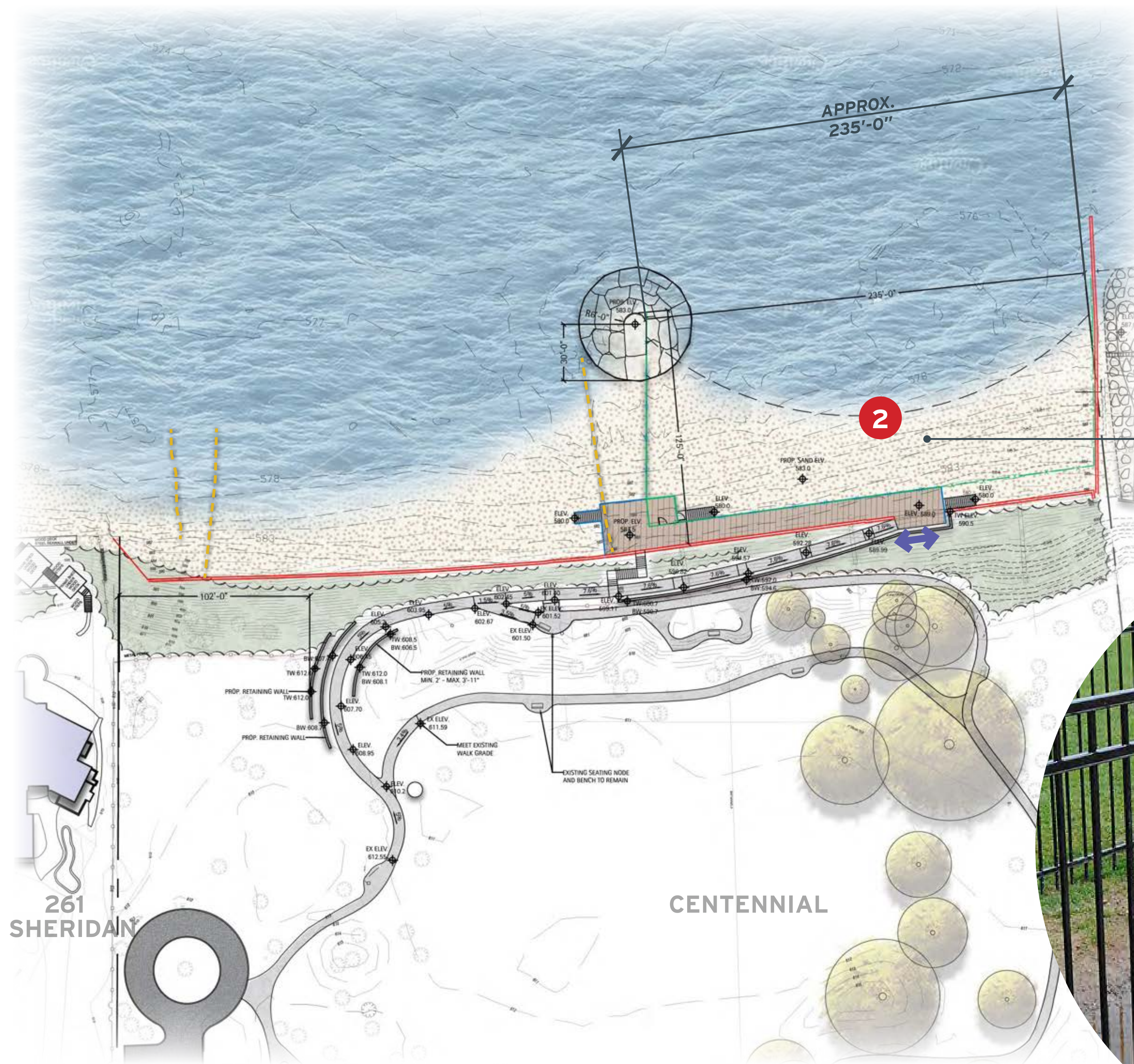
ELEVATION B

SCALE: 1"=8'  
0 4' 8' 16'





### Centennial Park | Design Area Parameters



#### LEGEND

- PROPOSED BLUFF RESTORATION
- ACCESS TO BEACH
- SHEET PILE (PROPOSED)
- SHEET PILE (EXISTING)
- ITEM TO BE REMOVED

**2** 10/27/22 WPD BOARD MOTION  
AMEND WINNETKA WATERFRONT 2030 LAKEFRONT  
MASTER PLAN TO INCLUDE A DOG BEACH AT THE  
SOUTH END OF CENTENNIAL BEACH

CENTENNIAL DOG BEACH

BLACK VINYL COATED CHAINLINK FENCE

METAL PICKET FENCE AT SECURE ENTRANCE

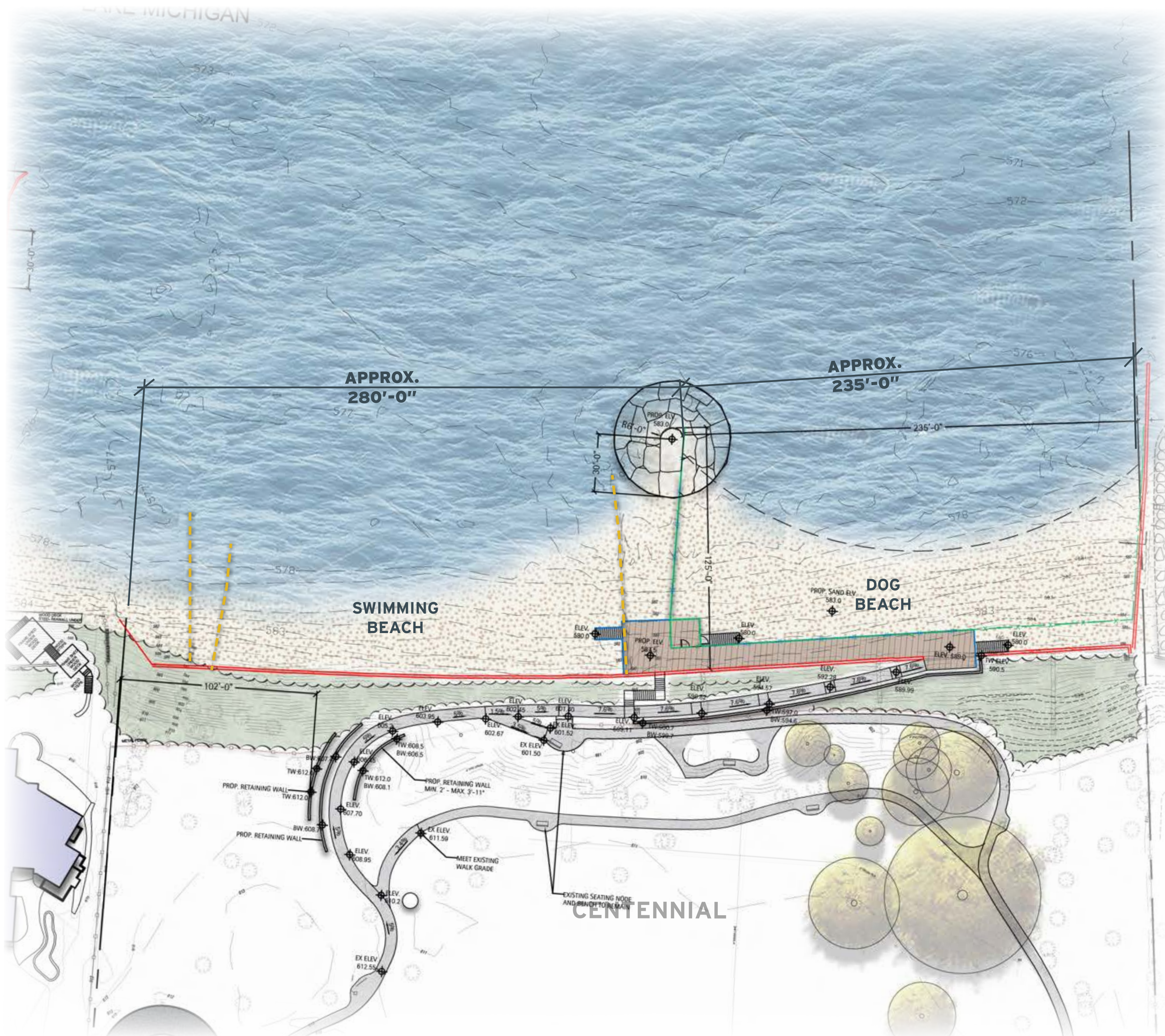






### Centennial Park | V. Gillson Park Comparison

#### PROPOSED CENTENNIAL DOG BEACH



DRAFT PLAN 4/15/23



#### GILLSON DOG BEACH

