

SEASIDE LAGOON REHABILITATION PROJECT DESIGN

BACKGROUND

- Seaside Lagoon
 - Relies on aging infrastructure
 - Draws, treats, and discharges ocean water
 - Difficult and costly to maintain
 - 2025 Pump Repair
 - Annual fines from CA State and Regional Water Quality Control Boards
- City secured \$10M in grants, allocated \$1M

BACKGROUND

- Through RFP process, NUVIS selected in 2023
- Community outreach and engagement, subcommittee and Harbor Commission helped inform design
- October 15, 2024 Council meeting
 - Options presented
 - Option 2 Selected
 - Directed to move forward with Phase 1 plans and specs, and pursue entitlement for all phases

Option 2

- Lagoon isolated from harbor with recirculation filtering
- Concrete liner with sand bottom
- Lagoon moved north
- Reuse of existing bulkhead
- Round-about added to park space
- Removable fences for access after lagoon closes
 - Fuchsia fence during summer season with Lagoon full
 - Red fence after summer season with most of Lagoon drained
- Shallow end drains for after season access



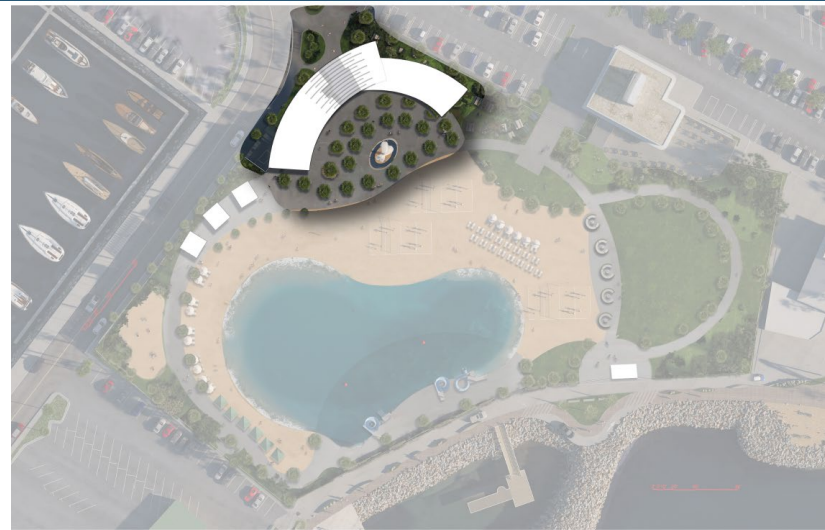
PHASES



PHASE 1 - LAGOON, WATERSLIDES, PUMP ROOM & DRAINAGE
SEASIDE LAGOON PHASING PLAN
CITY OF REDONDO BEACH, CA



PHASE 2 - PARK, SAND, RESTROOM & RECREATION ELEMENTS
SEASIDE LAGOON PHASING PLAN
CITY OF REDONDO BEACH, CA



PHASE 3 - BUILDING, ENTRY GATEWAY & PLAZA
SEASIDE LAGOON PHASING PLAN
CITY OF REDONDO BEACH, CA



PHASE 4 - WATERFRONT PROMENADE
SEASIDE LAGOON PHASING PLAN
CITY OF REDONDO BEACH, CA



BACKGROUND

Since October 2024

- LA Department of Health
Lap pool and lagoon must be physically separated by setback and fencing
- Cost estimation refinement
Phase 1 exceeded \$16M
- Site Constraints
High groundwater table = excavation limitation = dewatering
- \$7.9M in the Current Project Budget for Construction

BACKGROUND

Scope Refinements

- Lagoon water feature and supporting infrastructure
 - Fountain feature
 - Smaller splash and spray elements
 - Water slide
 - Buoys for informal lap swimming
 - Concrete bottom will help with clarity, but shallow area along edges will include sand
- Options for Different Water Depths at between 3.5 feet and 5 feet



Pump House and
Luau Shelter

Zero depth
sand entry

Splash & Spray
Features

Concrete
bottom

Water
Slide

Fountain

Temporary
Fencing



Pump House and Luau Shelter

Zero depth sand entry

Splash & Spray Features

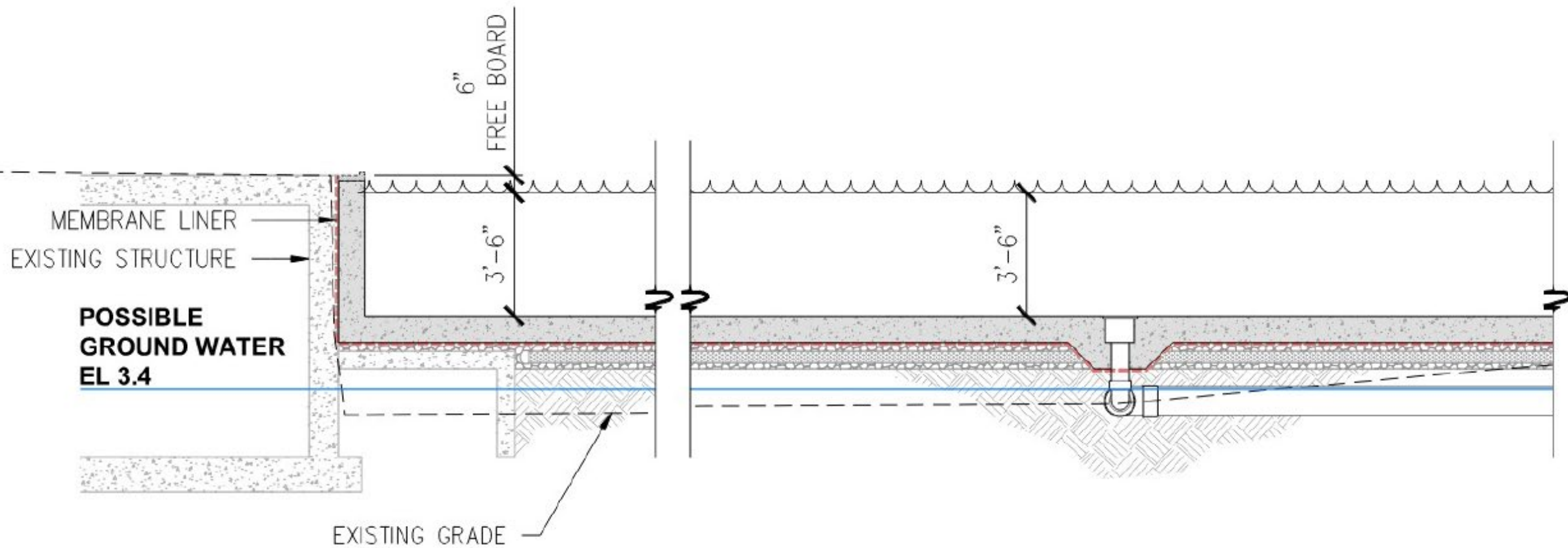
Water Slide

Temporary Fencing

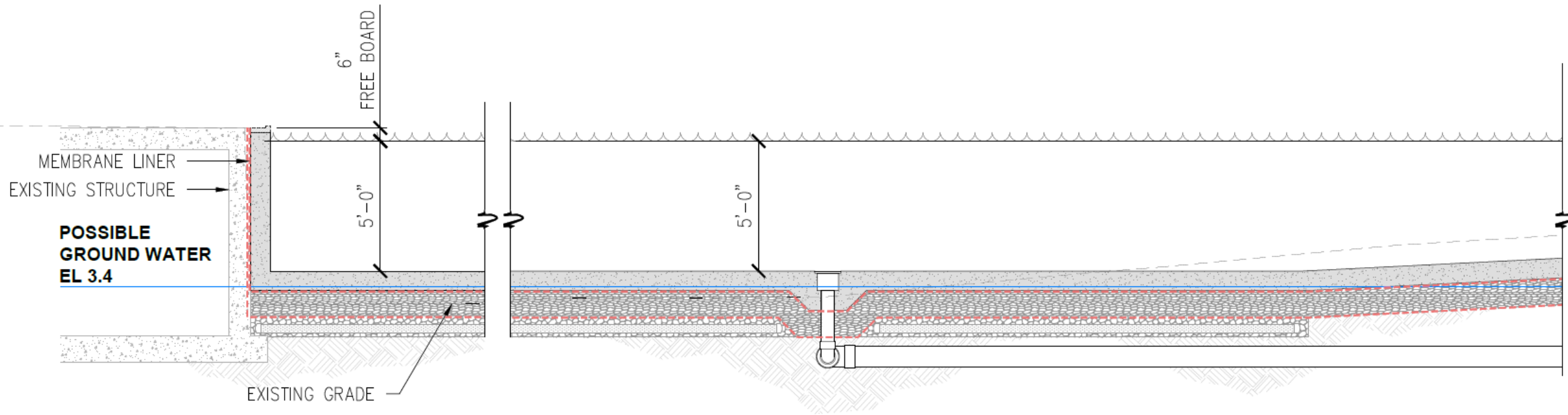
Fountain

Concrete bottom

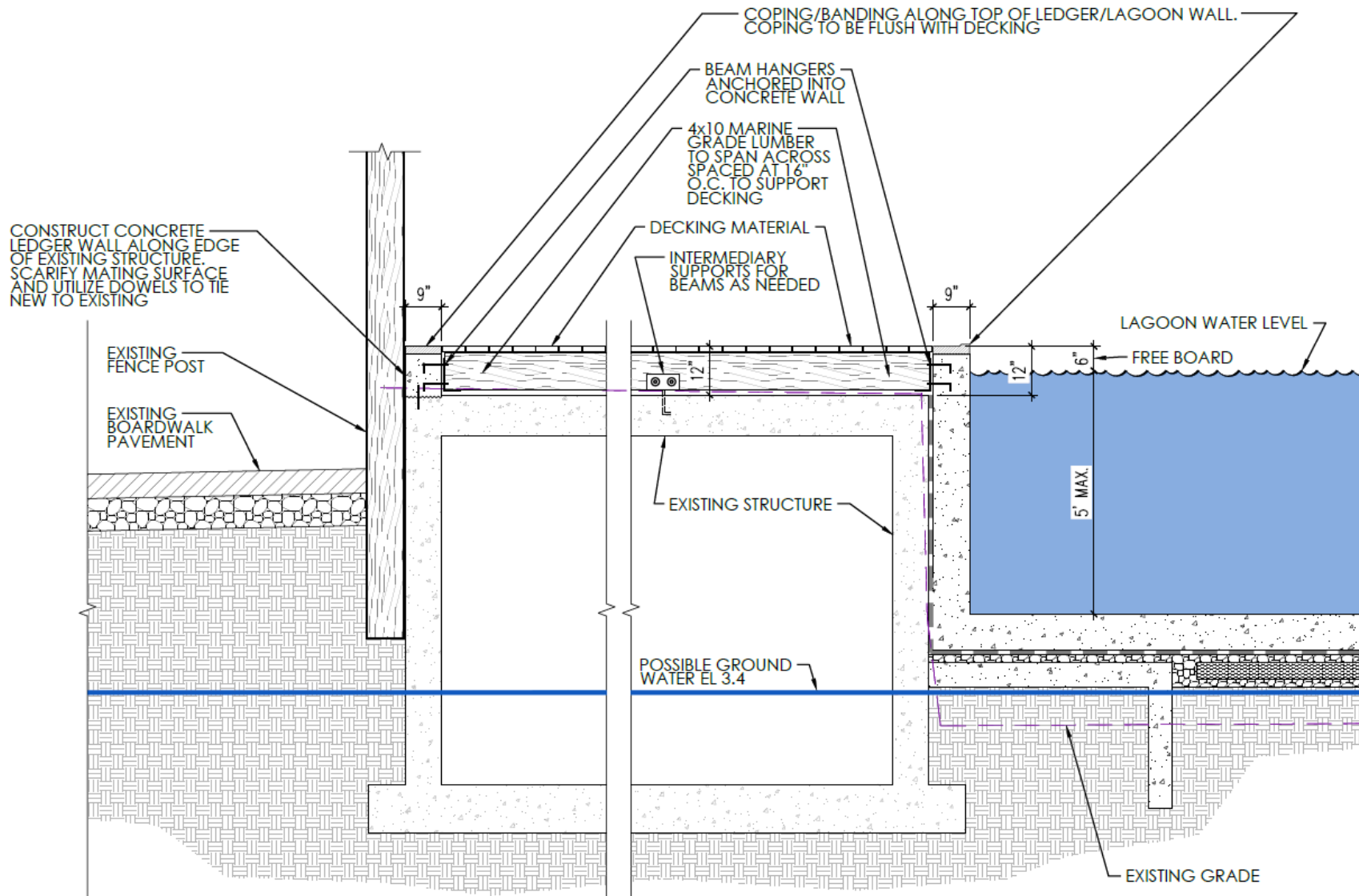
GROUNDWATER LEVEL



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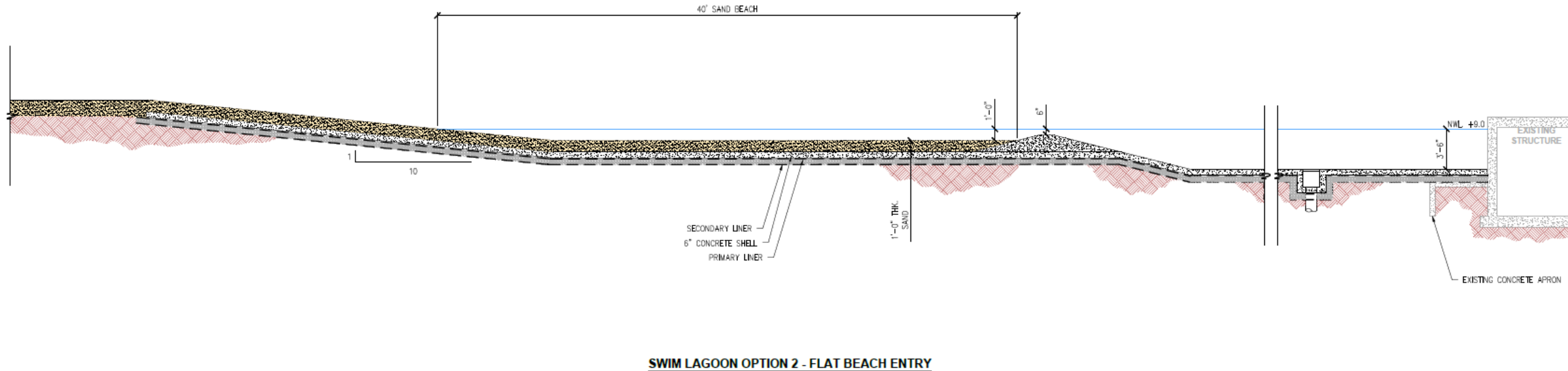
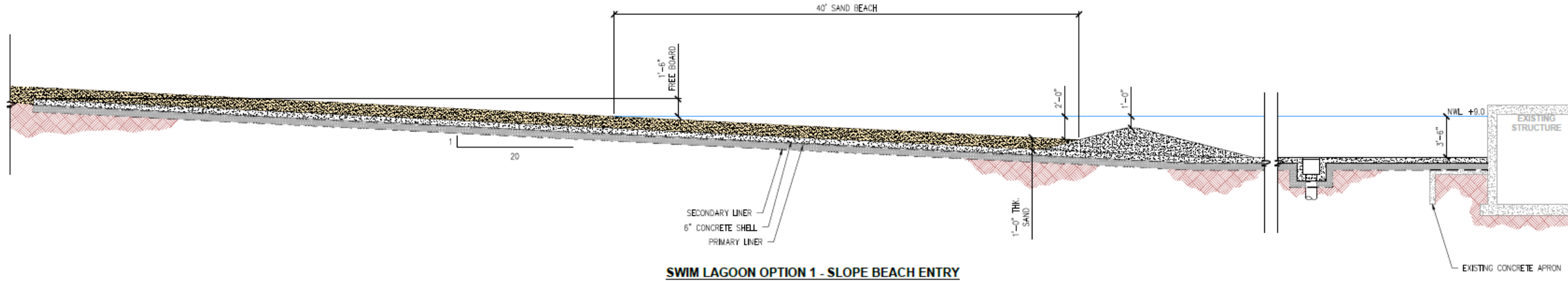


Option to build up

Costs include
ramping and
decking atop
current bulkhead

Can increase depth
by 0.5 ft to 1.5 ft

ZERO DEPTH SAND ENTRY



Water Feature DESIGN OPTIONS

- OPTION 1:

Including all elements noted in slides 8/9, and either sand entry design
3.5 ft depth
\$9.47M current estimate

- OPTION 2:

Including all elements noted in slides 8/9, and either sand entry design
Build up to 4 or 5 ft of depth
4 ft: \$9.47M + \$475k decking and ramping = \$9.95M current estimate
5 ft: \$9.47M + \$575k decking and ramping = \$10.05M current estimate

- OPTION 3

Including all elements noted in slides 8/9, and either sand entry design
Dig down to 5 ft depth
\$9.47M + \$1.27 construction + \$1-2M dewatering = \$11.74-\$12.74M est.

Other Optional Design Features

Optional Elements	Estimated Cost
New, high-grade sand	\$110/cubic yard ~4930 CY required \$542,300
Installation of a prefabricated restroom facility along the promenade to support the Lagoon and Hand Launch facility	\$607,925 for a four unisex stall unit, or \$300k-\$425k for a one to two unisex stall unit
Replacement of the facility's perimeter chainlink fencing	\$139,500 for new chainlink, or \$446,400 for upgraded 8' tube steel fencing, or \$51,750 for chainlink on the NE side and <u>\$453,375 for tempered glass fencing on SW</u> \$505,125 total
Sod w/ irrigation for 20,000 sf. of Turf instead of Sand south of the Water Amenity	\$80,000 - Sodded Turf \$4/SF <u>\$100,000 - Turf Irrigation \$5/SF</u> \$180,000 Total

TIME CONSTRAINTS

- Timely City Council direction required to proceed
- Staff will move forward with entitlement documents, environmental review, and the preparation of plans and specifications for construction of Phase 1
- Coordination with the CA Coastal Commission and other regulatory agencies, followed by bidding and construction

Construction Schedule

Start target: April 2027

Duration: ~10 months

Completion: Early 2028

Goal is to complete Phase 1 improvements before the BeachLife Festival in May 2028 and to position the facility for LA28 programming

RECOMMENDATION

Provide direction on what elements to incorporate in the final Seaside Lagoon Design, including:

1. Water Depth
2. Sand Entry
3. Other optional Features

Staff recommends constructing a new SSL with 5 feet of water depth (Option 2)

Direct staff to proceed with preparation of the Coastal Development Permit Application and to identify funding for the total estimated cost of construction, including the final design elements