

## **Preferred Riverwalk Alternative Components – August 17, 2017:**

1. **Entrance and Future Pump Station Location:** Entrance location to line up with main parking entrance to Captain Parkers and allows future Pump Station to be on the east side to minimize impacts to new access road. Curve provided in the entrance road to reduce speeds and locate leaching field on unbuildable lot to the west of the entrance. This is the location of the previously designed subsurface disposal system for the Marina project and can more readily accommodate a mounded system with required separation from the isolated wetland. Locating a septic system on a separate lot is allowed by current Title 5 Regulations, but the Town regulations are a little ambiguous and may require a formal variance request from the BOH (approval likely as there is common ownership).
2. **Parking:** Design of parking should ensure a vista view from the parking areas (those south of upweller access) so people can enjoy the area from their car in cooler weather or for a lunch break. This may require the parking area to be slightly elevated to view over landscaping, and choice of landscaping in the southern parking areas should be low growing to take this into consideration. The curved parking area mimics the river, allows for parking to extend to the kayak launch for easy access and turn around, provides 81 spaces (4 handicap), allows for easy policing of the Riverwalk Park from police cruisers, and maximizes remaining land for Lot 2. Also included are elevated walkways within the parking areas to reduce speeds and provide pedestrian access to future activities on Lot 2 from the parking area.
3. **Security and Safety Measures:** The parking design maximizes policing of the area by allowing police vehicles to patrol the length of the park. The addition of decorative lighting in the parking area provides additional security measures. May wish to consider adding security cameras. Signage should be provided noting that the Park is closed dusk to dawn and include park rules. Consider not allowing dogs at the park and on the boardwalk. Consider including a gate, even though it would not be locked daily.
4. **Restrooms:** Provide traditional restrooms by the parking area which can include general welcome center type information. Provide a portable toilet enclosure near the kayak launch (similar to Dennis Pond). Estimate number of fixtures required.
5. **Upweller:** Provide maintenance vehicle access, but keep pathways away from Upweller due to noise.
6. **Seating Options:** Provide for variety of seating options, including seating with/without shade structures and less formal seating, such as boulders. Locate to prevent impacts to views and minimize maintenance.
7. **Litter:** Install solar powered trash compactors throughout park that allow access with the trash truck.
8. **Landscaping:** Reduce the number of trees to maintain vistas, increase visibility for security and reduce maintenance costs. Keep one large grassed area for events, but reduce mowing and watering by having more maintenance free native vegetation. Use vegetation buffers to restrict access to the salt marsh. Foster butterfly and pollination. Include watering spigots throughout property.
9. **Kayaks:** Include space with stone pad area for private vendor trailer for rentals, leased storage corral with racks, and safety/educational kiosk on sharing the river.
10. **Artist Shanties:** Identify locations for potential future artist shanties or tents.
11. **Food Trucks:** Food trucks for special events only, can designate certain parking areas for food trucks during events. No special location is proposed.
12. **Public Art:** Provide opportunities throughout the park.
13. **Educational Opportunities and Interpretive Signage:** Provide opportunities throughout the park, especially at the upwell, and kayak launch and along the River.
14. **Interactive/Natural Playscapes:** Include play area close to the open green space with shade trees.
15. **Events/Activities:** Provide open lawn space with Pavilion/picnic tables for wide variety of events and activities.

**RIVERWALK PARK AND BOARDWALK  
DRAFT MATERIALS LIST  
August 17, 2017**

Element	Materials	Questions/Comments
<b>RIVERWALK PARK:</b>		
Entrance Roadway	<ul style="list-style-type: none"> <li>• Bituminous pavement with drainage system</li> <li>• Pervious Pavement</li> </ul>	<ul style="list-style-type: none"> <li>• Will pervious pavement (PP) stand up to a potential commercial development on Lot 2?</li> <li>• What about the maintenance costs?</li> <li>• What do we do for Town Roads with PP?</li> <li>• If traditional pavement will need a drainage system to meet WPA for treatment, recharge, peak attenuation, etc.</li> </ul>
Pedestrian Crossings	<ul style="list-style-type: none"> <li>• Pedestrian light at Route 28 for safe crossing</li> <li>• Elevated walkways throughout the parking lot to access Lot 2 and slow traffic.</li> </ul>	<ul style="list-style-type: none"> <li>• Do we want to include a pedestrian signal across Route 28?</li> </ul>
Parking lot	<ul style="list-style-type: none"> <li>• Permeable Pavement</li> <li>• Porous Pavers</li> <li>• Bituminous Pavement with drainage system</li> <li>• Gravel with crushed stone or shells</li> </ul>	<ul style="list-style-type: none"> <li>• Security cameras?</li> </ul>
Pathways	<ul style="list-style-type: none"> <li>• Crushed Schist</li> <li>• Dense Graded Crushed Stone</li> <li>• Permeable Pavement</li> <li>• Porous Concrete</li> <li>• Tiger Sand</li> <li>• Moby Mat (some accessible areas)</li> </ul>	<ul style="list-style-type: none"> <li>• Do we want a variety of pathway materials? More formal design adjacent to Pavilion and grassed area and more natural further out?</li> <li>• Do all these meet handicap accessibility requirements?</li> </ul>
Curbing/curb stops	<ul style="list-style-type: none"> <li>• Concrete Curb Stops (no curbing)</li> <li>• Granite Curbing</li> <li>• Concrete Curbing</li> </ul>	<ul style="list-style-type: none"> <li>• Do we want curbing around the more formal Pavilion/lawn area and curb stops as we move further south?</li> </ul>
Restrooms	<ul style="list-style-type: none"> <li>• Traditional Restroom/info center designed for floodplain</li> <li>• Portable toilet enclosure with roof near Kayak launch</li> </ul>	<ul style="list-style-type: none"> <li>• Do we want to consider compost toilets or exclude due to the maintenance issues?</li> </ul>
Trash Cans	<ul style="list-style-type: none"> <li>• Bigbelly Solar Trash Compactor</li> <li>• Recycling Containers</li> </ul>	<ul style="list-style-type: none"> <li>• Locate trash cans throughout the park where access by the trash truck is available.</li> </ul>

**RIVERWALK PARK AND BOARDWALK  
DRAFT MATERIALS LIST  
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Lighting 	<ul style="list-style-type: none"> <li>Decorative Lighting – nautical theme, LED, max. 20’ high poles.</li> </ul>	<ul style="list-style-type: none"> <li>Parking Area only?</li> <li>Ped lights along pathway?</li> </ul>
Gate at Entrance to Park	<ul style="list-style-type: none"> <li>Decorative style</li> </ul>	<ul style="list-style-type: none"> <li>Do we want to include a gate to block off the park even if not locked nightly?</li> </ul>
Landscaping	<ul style="list-style-type: none"> <li>Include a variety of native species to reduce maintenance, to restore resource buffer areas, and foster butterfly and pollination areas.</li> <li>Retain one large grass area for events, but reduce other areas requiring mowing.</li> <li>Retain vistas from southern parking areas with low plantings.</li> <li>Reduce number of trees to maintain vistas, increase visibility for security and reduce maintenance costs.</li> <li>Include water spigots around the park for watering.</li> </ul>	<ul style="list-style-type: none"> <li>If including water spigots for plant watering, do we want drinking fountains?</li> <li>Do we want to consider irrigation?</li> </ul>
Pavilion at Lawn Area	<ul style="list-style-type: none"> <li>Pre-fab wooden Pavilion with concrete slab</li> </ul>	<ul style="list-style-type: none"> <li>What size would work best?</li> <li>Do we want picnic tables in pavilion?</li> </ul>
Seating Options	<ul style="list-style-type: none"> <li>Benches (with and without shade structure)</li> <li>Casual seating such as boulders</li> </ul>	<ul style="list-style-type: none"> <li>Include a variety of seating throughout the park.</li> </ul>
Interactive/natural playscapes	<ul style="list-style-type: none"> <li>Natural Materials</li> </ul>	<ul style="list-style-type: none"> <li>Approximate area of the playscape?</li> </ul>
Kayaks Vendor Trailer Leased Storage Space	<ul style="list-style-type: none"> <li>Stone Pad Area for private vendor</li> <li>Corral Area and Low Racks for leasing</li> <li>No rental locker at this time</li> </ul>	<ul style="list-style-type: none"> <li>What ground material is good under the kayak rack area?</li> <li>Prefer vendor trailer over rental locker to provide education?</li> </ul>
Interpretive Signage & Kiosks	<ul style="list-style-type: none"> <li>Signage at the entrance to identify park rules/hours</li> <li>General tourist information board at restrooms</li> <li>Kayak safety education</li> <li>Interpretive signage at the Upweller, pollinating/butterfly areas and along the river</li> </ul>	<ul style="list-style-type: none"> <li>Number of signs anticipated throughout the park?</li> <li>Let consultant determine materials and sizes for estimating purposes.</li> </ul>

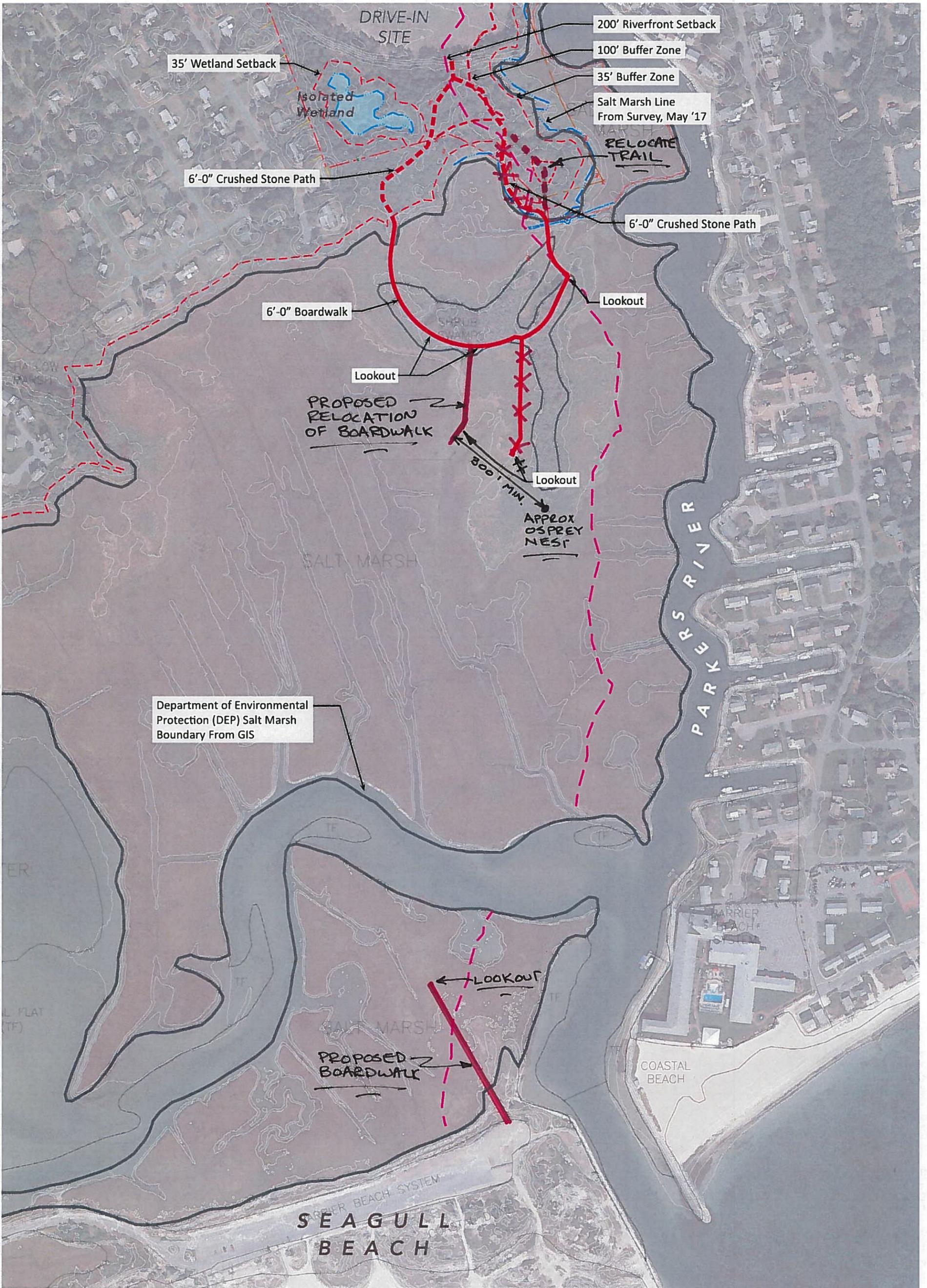
**RIVERWALK PARK AND BOARDWALK  
DRAFT MATERIALS LIST  
August 17, 2017**

Element	Materials	Questions/Comments
Educational Elements	<ul style="list-style-type: none"> <li>• ?</li> </ul>	<ul style="list-style-type: none"> <li>• What should this include? Should it just be interpretive signage/kiosks or were we looking for something more substantial initially?</li> </ul>
Artist Shanties/Tents	<ul style="list-style-type: none"> <li>• None initially budgeted</li> </ul>	<ul style="list-style-type: none"> <li>• Provide area but do not install shanties initially? Start with tents to gauge popularity?</li> </ul>
Public Art	<ul style="list-style-type: none"> <li>• None initially budgeted</li> </ul>	<ul style="list-style-type: none"> <li>• Do we want to budget an allowance for public art or address later?</li> </ul>
Food Trucks	<ul style="list-style-type: none"> <li>• Utilize portion of parking lot – no special area</li> </ul>	<ul style="list-style-type: none"> <li>• Food Trucks for special events only using a closed off section of the parking lot?</li> </ul>
<b>BOARDWALK AND WOOD TRAILS:</b>		
Boardwalk Deck	<ul style="list-style-type: none"> <li>• Southern Yellow Pine</li> <li>• IPE (Brazilian Hardwood)</li> <li>• Composite</li> <li>• Grating (aluminum or composite at bump outs)</li> </ul>	<ul style="list-style-type: none"> <li>• What do we have at Bass Hole Boardwalk?</li> <li>• Material should allow for donation naming.</li> <li>• Grating at bump-outs to ensure sunlight penetration. Prefer aluminum or composite grating?</li> </ul>
Railings	<ul style="list-style-type: none"> <li>• Wood Post with SS cable</li> <li>• Stainless Steel Post and Top Rail with SS cable</li> <li>• Aluminum Post and Top Rail with SS cable</li> </ul>	<ul style="list-style-type: none"> <li>• SS posts/rail would be more expensive.</li> <li>• Type of railing will impact visuals of the boardwalk.</li> </ul>
Pathways through Woods	<ul style="list-style-type: none"> <li>• Crushed Schist</li> <li>• Dense Graded Crushed Stone</li> <li>• Tiger Sand</li> <li>• Moby Mat (some accessible areas)</li> <li>• Low profile boardwalk</li> </ul>	<ul style="list-style-type: none"> <li>• Low profile boardwalk may address sea level rise better but is more expensive.</li> <li>• Natural style pathway is consistent with other conservation areas in Town.</li> </ul>
Interpretive Signage	<ul style="list-style-type: none"> <li>• Signage at entrance to boardwalk identify use rules.</li> <li>• Signage along the boardwalk including wildlife, plants and marsh ecosystems.</li> </ul>	<ul style="list-style-type: none"> <li>• Number of signs?</li> <li>• Can let consultant determine materials and sizes for estimating purposes.</li> </ul>
Trash Cans	<ul style="list-style-type: none"> <li>• Bigbelly Solar Trash Compactor</li> </ul>	<ul style="list-style-type: none"> <li>• Locate a trash compactor at the entrance to the boardwalk at Seagull Beach</li> </ul>



EXISTING CONDIT

**Concept Sketch**  
 Riverwalk Park  
 Combination of Options A & C  
 6/28/17 - KDW  
 REVISED 8/15/17



Boardwalk Length: 1,500 LF  
 Crushed Stone Path Length: 1,250 LF



**OPTION 1**

**PROPOSED REVISION 8/16/17**



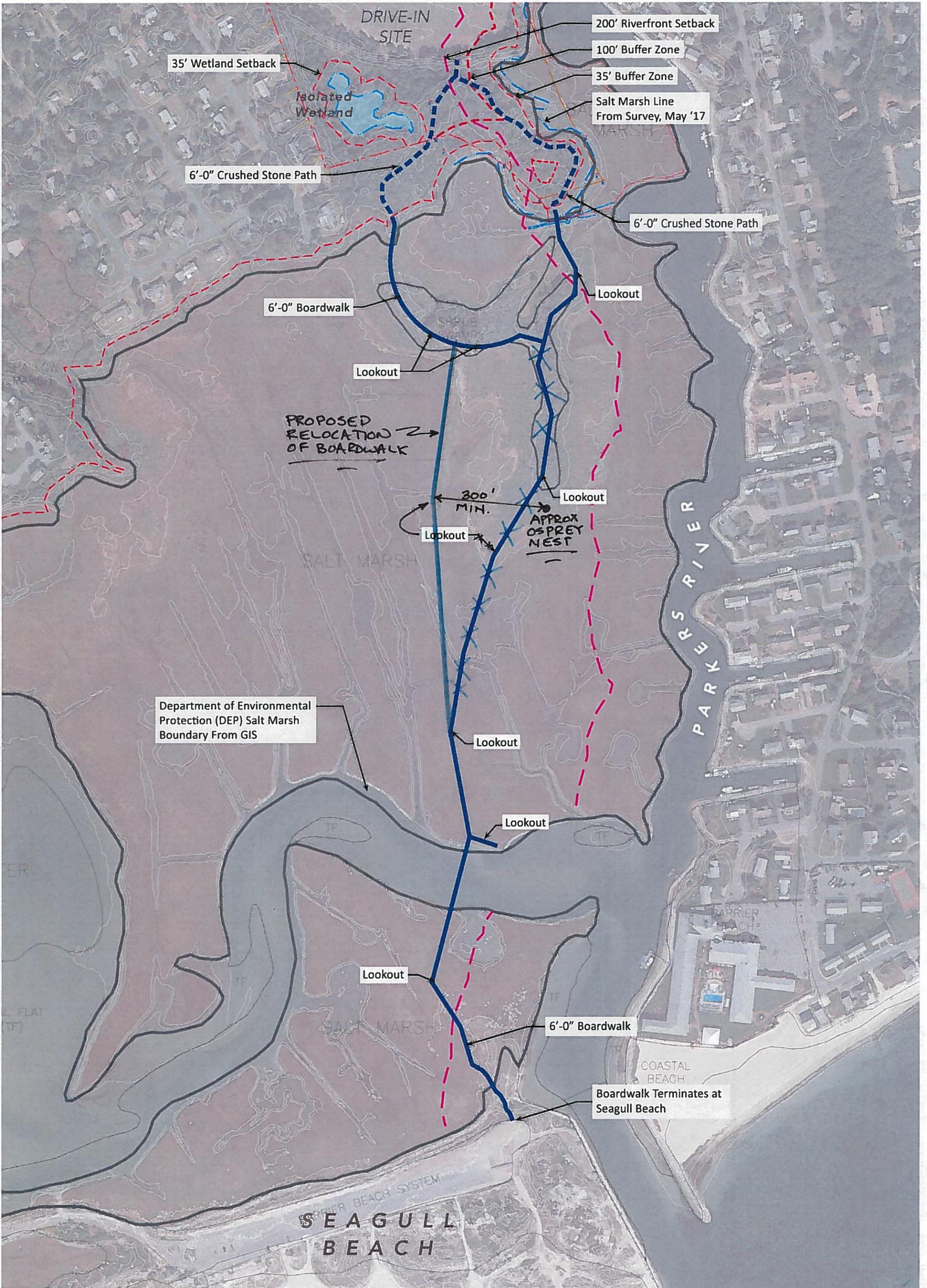
**Riverwalk Park & Boardwalk**

Scale: 1"=120'-0"

May 2017

Yarmouth, MA



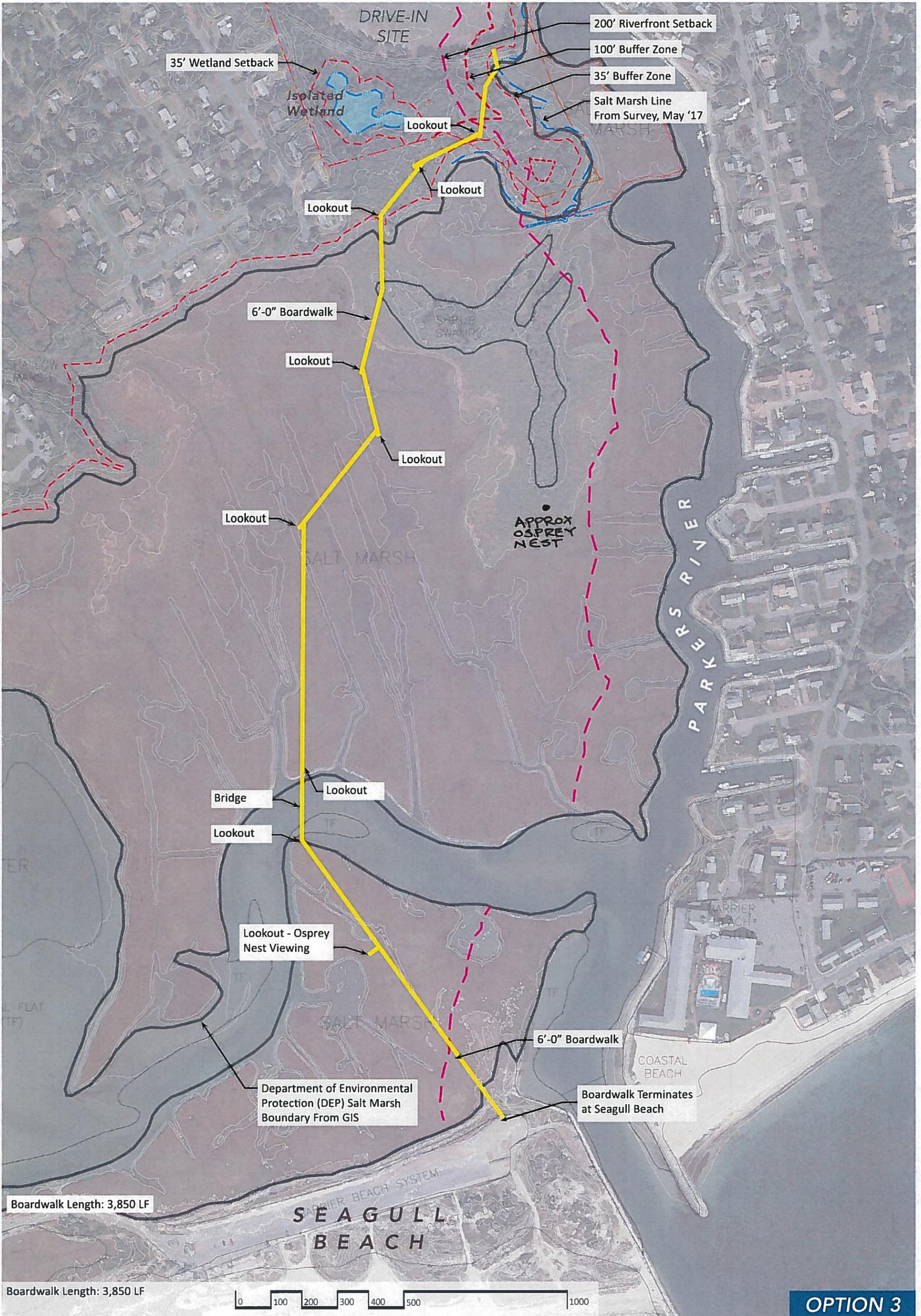


Boardwalk Length: 3,800 LF  
 Crushed Stone Path Length: 1,250 LF



**OPTION 2**

**PROPOSED REVISION 8/16/17**



Boardwalk Length: 3,850 LF

Boardwalk Length: 3,850 LF



**OPTION 3**