

Arcadia Township

Arcadia Beach Natural Area Overlook



Design Development

Arcadia Beach Natural Area Overlook

Arcadia Township

Project History

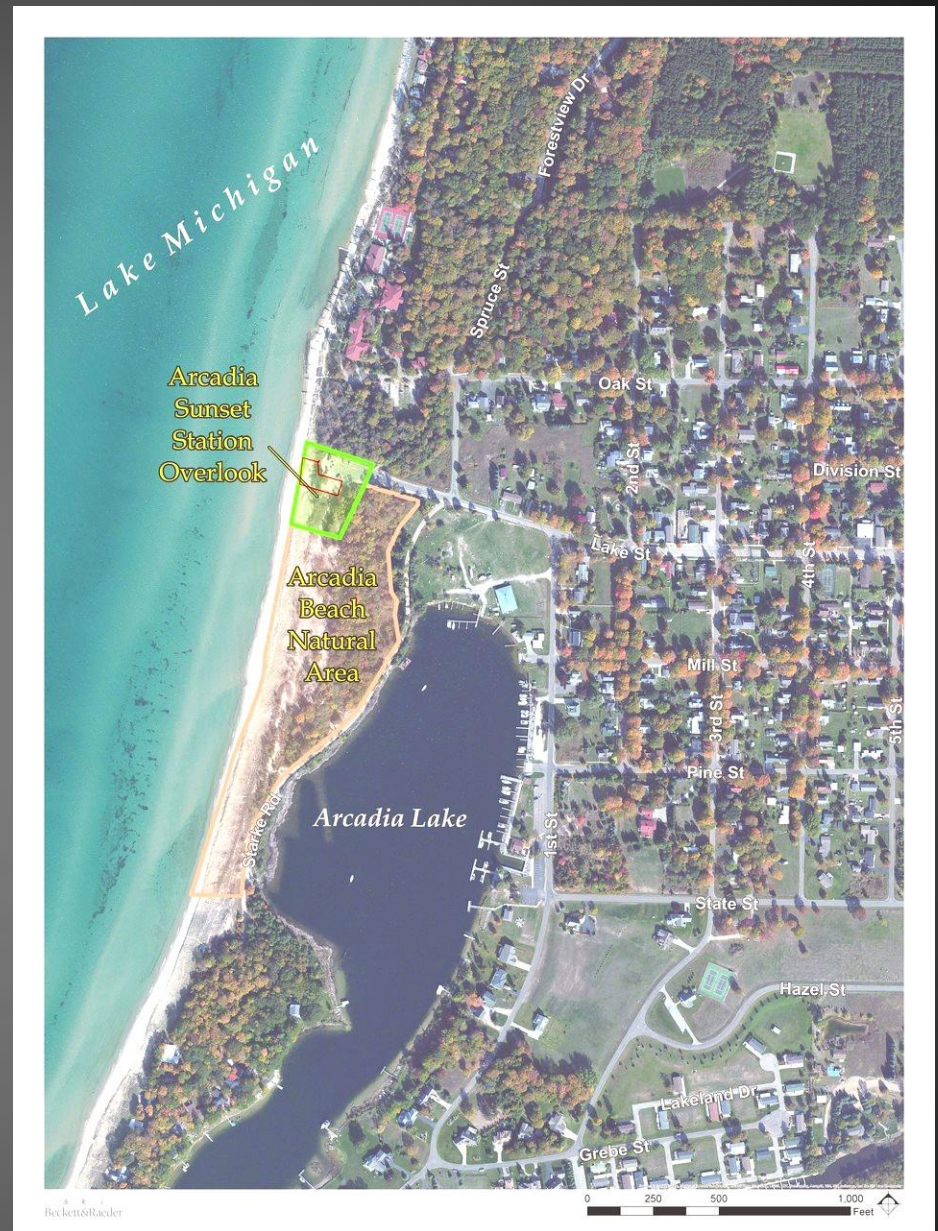
- I. 2013: Original Plans prepared in 2013 by Beckett & Raeder, Inc. and submitted for MDNR Michigan Natural Resources Trust Fund grant by the Alliance for Economic Success.
- II. Spring 2015: AES secures MNRTF Grant.
- III. May 2015: BRI began revising the Site Plan submitted in the grant application. Updated topographic survey completed in June.
- IV. Discussed implications of change in topography and shoreline with Grant administrator.
- V. June 29, 2015: Reviewed site conditions and initial concept with MDEQ and Stakeholder Team. Meeting with MDEQ was to gain input on how to address change in topography and loss of accessible shoreline.
- VI. July 22, 2015: Met with MDEQ and USACE for additional input on topographical changes and to gain input on the proposed revised plan. Followed up meeting with correspondence with MDEQ Bottomlands, for additional input regarding long-term implications of constructing in High Risk Erosion on this specific site.
- VII. Updated and refined plans to bring project to Design Development level.

Review with the Stakeholder Team and input from MDEQ and USACE helped shape the revised plans.

Arcadia Beach Natural Area Overlook Arcadia Township

Aerial map of Arcadia, Arcadia Lake, and Arcadia Beach Natural Area. Light orange outline identifies Arcadia Beach Natural Area. The green outline represents the subject property and adjacent County Road R.O.W.

The small red outline within the green outline represents the approximate work limits.



Arcadia Beach Natural Area Overlook

Arcadia Township



Original Site Plan, revised summer of 2014.

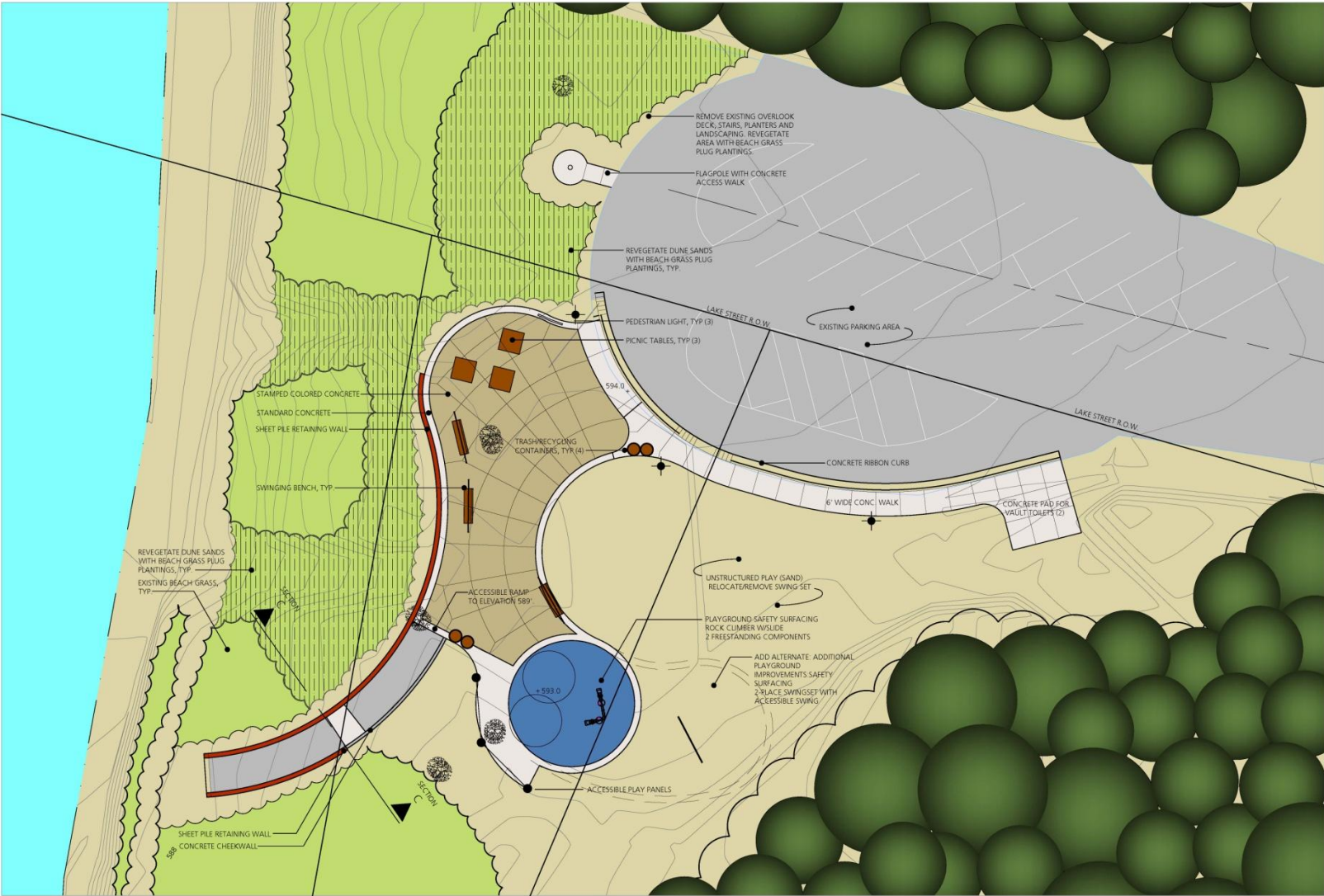
Arcadia Beach Natural Area Overlook Arcadia Township

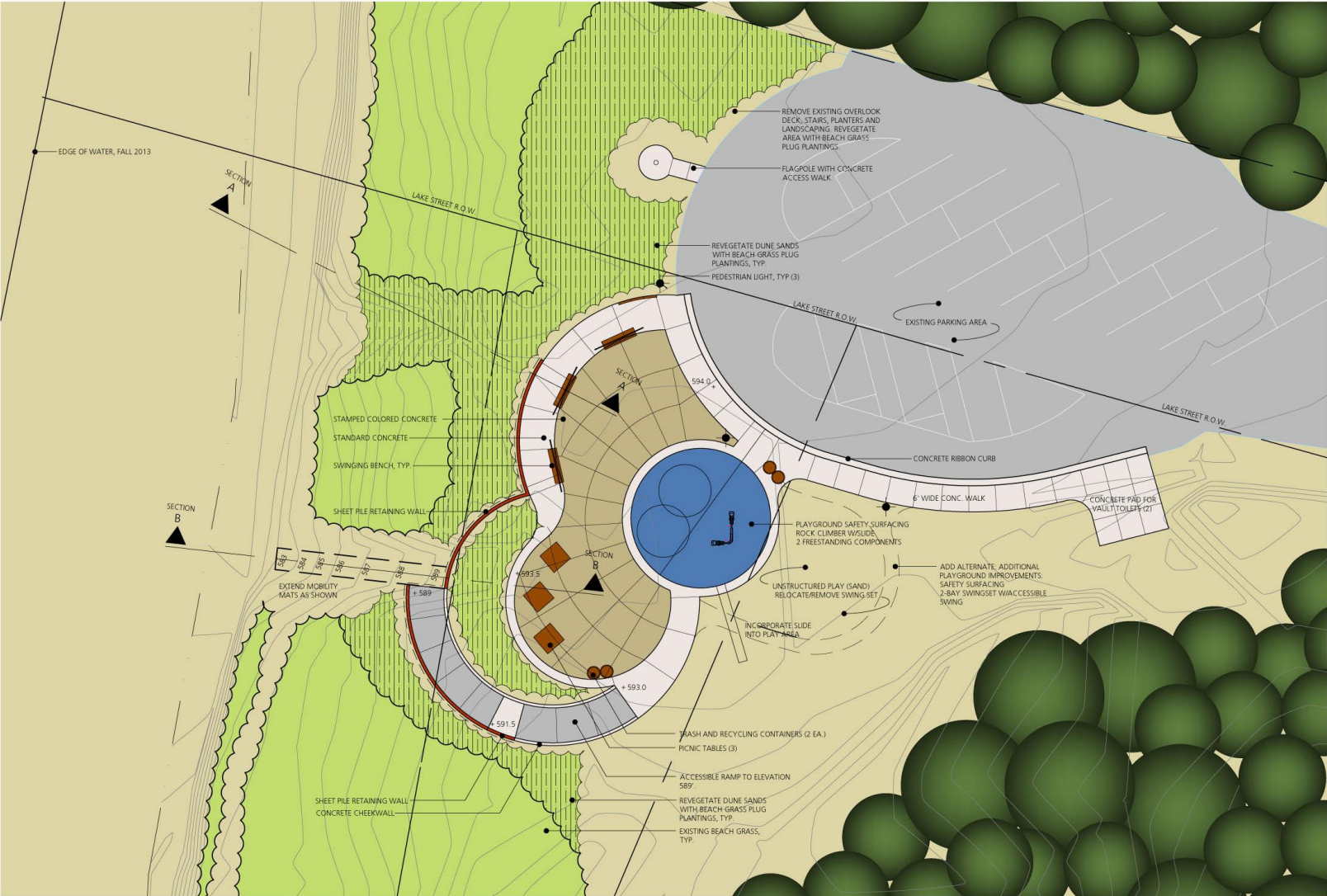


Beach and existing overlook, 2013.

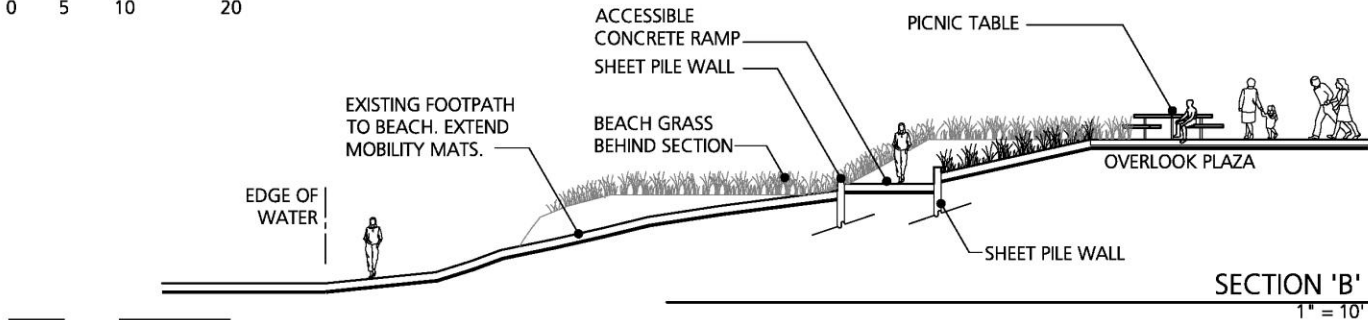
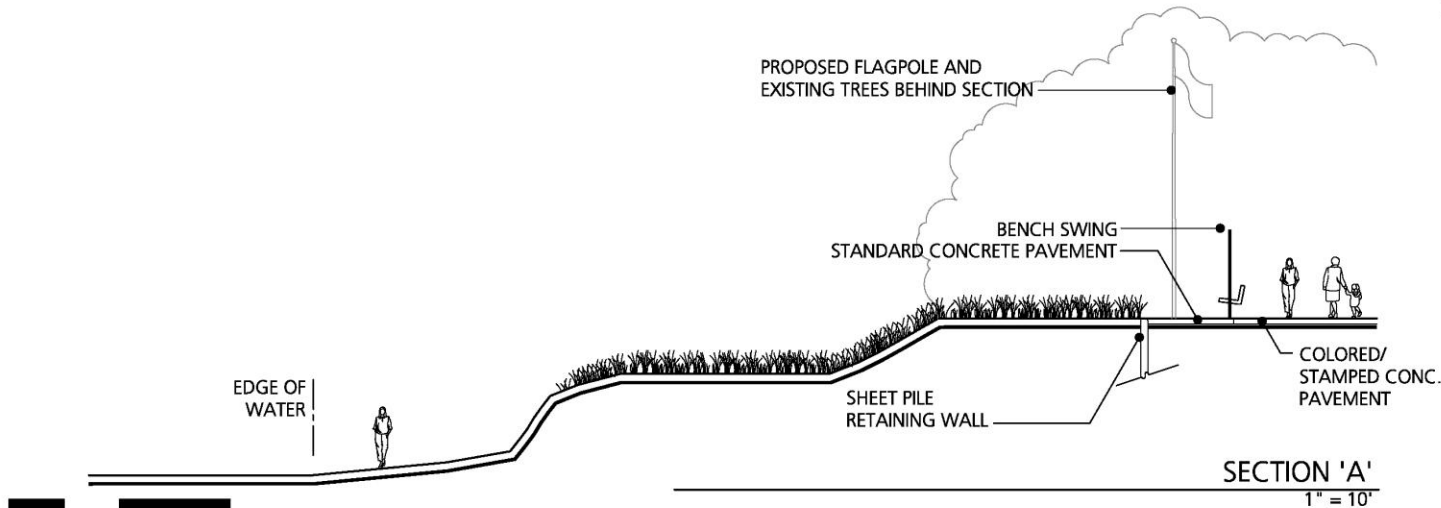


Beach and existing overlook, 2015.





B R ①
Beckett&Raeder
*Landscape Architecture
Planning & Engineering*



Arcadia Beach Natural Area Overlook
Arcadia Township

Site Furnishings



Pedestrian Lighting



Trash and Recycling
containers



Salvage and re-use existing
swinging benches



Picnic Tables

Arcadia Beach Natural Area Overlook Arcadia Township

Playground Equipment



Rock Climber



Rope Climber



Bell Panel



Rock Tower



Drum Panel

Arcadia Beach Natural Area Overlook Arcadia Township

Finishes



Arcadia Beach Natural Area Overlook

Arcadia Township

Opinion of Probable Cost

	Option 'A':	Option 'B'
Demolition / SESC	\$ 16,216	\$ 16,216
Overlook and Ramp (Earthwork, ribbon curb, sheet pile and concrete walls, concrete pavement, handrails)	\$ 95,681	\$ 93,195
Site Furnishings (Vault toilets, benches, tables, trash/recycling containers, 2 grills, dog waste bag dispenser, Site entry and interpretive signs, flagpole, and pedestrian lighting)	\$128,000	\$128,000
Playground Improvements (Remove existing equipment, equipment and safety surfacing)	\$ 42,900	\$ 42,900
Landscape and restoration	\$ 11,935	\$ 12,039
Total, including 10% Contingency, 10% General Conditions, Design/Engineering, Permitting and Testing:	\$412,653	\$409,318
Add Alternate: Additional Playground (safety surfacing, 2-place swingset, ADA swing):	\$ 27,012.50	\$27,012.50

- BRI and Township to post information from this presentation on the Township website for a period of two weeks to receive comments on the two plan options.
- Once a plan is selected and revised accordingly, BRI to provide revised plan to project stakeholder group for review and approval.*
- BRI to schedule Pre-Application Meetings with MDEQ and USACE to verify feasibility of plan.
- Upon satisfactory feedback from Pre-application Meetings, BRI to revise plans accordingly and submit to Grant Administrator.*
- BRI to prepare MDEQ/USACE Joint Permit Application for the project.
- BRI to complete Construction Documents and final Opinion of Probable Cost.*
- Township and BRI to determine bidding and construction schedule.

* BRI to provide cost updates at these intervals.