



Access Recreation Group, LLC

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Sleeping Bear Dunes Beach/Water Access Site Accessibility Evaluation & Design Recommendations


Beach/Water Access Site: DH Day Beach




Date Assessed: 10/23/15




Overall Barrier Descriptions:	General Barrier Removal Strategies & Recommendations
Parking - surface & slope	leveling & resurfacing, striping
Routes to Waters' Edge - width, slope, not to water	replace with wider over the sand product that can be leveled
Amenities (toilets, kiosk, potable water, bench) - changes of level, width, surface, operating, clear space	add universally accessible single user extra-large family style toilet replace & expand routes & clear spaces, operating mechanisms
Beach Equipment (beach wheelchair, transfer system) - design, location	new beach chair, shore platform, beach-to-water transfer system



Website & Equipment Program Recommendations:



Show photos of the new route & shore line platform and transfer system. Post a sign at the parking space indicating the availability of the beach wheelchair & how to get it for use. I suggest it be put out daily by the accessible parking space with a sign describing its purpose and telling campers of the expectation that they be respectful and reserve the use for those with disabilities.



Photo/Location Description	Barrier Description	Accessibility Feature Design Recommendations
<p data-bbox="94 170 535 203">Accessible Routes to Waters' Edge</p> 	<p data-bbox="598 203 1186 316">470' long boardwalk route toward the water is 48" wide with running slopes up to 14.7% and cross slopes up to 6.6%.</p> <p data-bbox="598 349 1102 422">There are no level landings at change of directions on curves.</p> <p data-bbox="598 462 1123 495">Boardwalk surface has openings up to 5.5"</p> <p data-bbox="598 649 1186 722">Encroaching vegetation narrows route width to less than 30"</p> <p data-bbox="598 941 1186 1047">Board walk ends well above the high water mark and has a slope of 20.5% and a drop off into sand</p> <p data-bbox="598 1274 1102 1307">125' of sand surface to the water's edge</p>	<p data-bbox="1218 235 1942 349">Replace the existing boardwalk with a new system with adjustable footings to protect dune surface and allow for leveling to maintain appropriate running and cross slopes</p> <p data-bbox="1218 389 2005 462">Go above the 60" allowed minimum width to at least 6' wide to allow passing on the route as well as side-by-side walking</p> <p data-bbox="1218 503 2005 609">Reduce running slope to 5% where possible & no steeper than the allowable 10% max. for very short segments (less than the 30' max. allowable)</p> <p data-bbox="1218 649 2005 722">provide level landings 6'X6' at the top and bottom of any steep slope segment greater than 5% slope</p> <p data-bbox="1218 763 1974 836">trim/remove encroaching vegetation back far enough that it doesn't grow into the beach route during the season</p> <p data-bbox="1218 941 2005 1047">Recommend extending the new beach route surface to the high water mark and create a large water's edge platform for a "hanging out space that is off to both sides of the route end.</p> <p data-bbox="1218 1088 2005 1161">Recommend adding a gangway off the route end as close to the water's edge as practical.</p> <p data-bbox="1218 1201 2005 1307">Recommend adding a beach to water transfer system from the beach platform to the water's edge to facilitate access into the water.</p>


Photo/Location Description	Barrier Description	Accessibility Feature Design Recommendations
<p data-bbox="92 177 504 240">Accessible Routes & Clear Space to Amenities</p>   	<p data-bbox="606 326 1192 389">Route to kiosk too narrow at 24" where it connects to the route from the water fountain</p> <p data-bbox="606 472 1192 535">No accessible surface & a drop off in the clear space</p> <p data-bbox="606 732 1203 795">Clear space at spigot side of water fountain too narrow at 16" between drain & route edge</p> <p data-bbox="606 1211 1192 1274">Route from parking to board walk to the beach is too steep with slopes up to 10.3%</p>	<p data-bbox="1241 253 1990 427">Replace the route surface from the water fountain to the kiosk and around and under the kiosk creating a smooth seamless route and clear space so wheels don't fall off the route. This will also make maintenance of the area easier as well.</p> <p data-bbox="1241 472 1997 613">Kiosk height meets current ADA minimum requirements, but to make the information more universally accessible, suggest lowering kiosk so information is centered at 48" which is more viewable from a seated position as well as for children.</p> <p data-bbox="1241 732 2003 837">Add accessible surface in the clear space of the water spigot at least 36" from the ground drain for a side approach for use of the spigot</p> <p data-bbox="1241 1211 1997 1274">Re-route the path to the board walk to reduce slopes to less than 5%</p>

Photo/Location Description	Barrier Description	Accessibility Feature Design Recommendations
<p>Toilets</p>   	<p>33" doors are too narrow for the beach wheelchair to fit in</p> <p>Pinch-grasp/wrist-twist lock on men's door</p> <p>Concrete entry pad is sinking creating a change of level & 3% slopes</p>	<p>Clear space may not meet the required space configuration for toilet rooms - check the design plans from the manufacture to confirm compliance with ADA space requirements. If it is determined that the design is indeed accessible mark as such with appropriate signage with braille and mount signs on the latch side of the door.</p> <p>If it is determined that the existing toilet design doesn't meet accessibility requirements add a new universally accessible single user family toilet room with extra-large clear space & a baby changer. The larger space will accommodate someone using a wheelchair or an opposite gender care giver assisting someone, as well as families with a little one in a stroller.</p> <p>Replace lock with same design as women's door that does not require pinch-grasp/wrist-twist operation.</p> <p>Level the concrete entry pad to eliminate the step up into the toilet</p>

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<p>Potable water source</p>  	<p>Clear space too narrow at 16" from drain grate</p> <p>Spigot requires pinch grasp/wrist twist to operate</p>	<p>Expand the clear space for side or front approach</p> <p>Replace the operating mechanism to be one-hand operable without pinch grasp/wrist twist such as a large paddle style lever that can be operated with a fist or flat hand</p>

Photo/Location Description	Barrier Description	Accessibility Feature Design Recommendations
<p data-bbox="94 180 325 207">Accessible parking</p>  	<p data-bbox="667 253 1207 321">One parking space with chips/fines surface slopes & cross slopes up to 3%</p> <p data-bbox="667 402 1117 467">Random vegetation creates unstable surface conditions</p> <p data-bbox="667 1065 982 1092">No access aisle indicated</p>	<p data-bbox="1241 253 1934 321">Level the parking and access isle space surface, remove vegetation and replenish accessible chips/fines surface.</p> <p data-bbox="1241 1065 1997 1133">Designate an access isle space as well. Suggestion is to strip the space with blue spray paint on the gravel surface.</p>

Photo/Location Description	Barrier Description	Accessibility Feature Design Recommendations
<p data-bbox="94 180 170 204">Bench</p>  	<p data-bbox="667 289 1199 354">Clear space is too narrow and overlaps the beach access route</p> <p data-bbox="667 732 1199 833">Surface change of level/drop off between the surface surrounding the bench & the beach access route surface</p>	<p data-bbox="1241 289 1969 354">When the beach access route is replaced locate it away from the bench end creating a non-overlapping clear space</p> <p data-bbox="1241 732 1969 797">Level the surface surrounding the bench and eliminate the change of level from the beach access route.</p>

Photo/Location Description	Barrier Description	Accessibility Feature Design Recommendations
<p data-bbox="94 175 319 203">Beach Wheelchair</p> 	<p data-bbox="667 289 1209 391">Old design of beach chair is very heavy and difficult to push on the sand (even with no one in it!!)</p>	<p data-bbox="1241 253 1992 391">Recommend replacing the old beach chair with a newer more user friendly model and keeping this old chair available for use as a trail hiking chair on trails with relatively level packed earth surfaces with trail treads at least 4'wide.</p>