12. SINKHOLE OVERLOOK. A natural amphitheater carved by ground water and eroded by the elements, the Makauwahi Cave sinkhole is a collapsed room of this unusual limestone cave, formed from Pleistocene dune sands.

13. “SOFT” RESTORATION. With our help, this woodland is turning gradually from non-native to native plants. At your feet is a verdant groundcover of ilie`e (Plumbago zeylanica), used by ancient Hawaiians to make tattoo ink. To protect the fragile cave environment, this type of habitat must be changed slowly, to ensure that the sinkhole is always protected from salt spray and wind, even while changing the ecosystem back to native species.

14. TRAIL JUNCTION. Here at Waiopili Stream, fresh and salt water meet. From here you can stay on this side and continue upstream to the walk-in cave entrance (#15), or cross over the bridge to see large-scale native and Polynesian plant restoration projects. The milo patch (#16) is on the ocean side of this junction.

15. NORTH CAVE ENTRANCE. By a big notch in the limestone cliff, a small dark triangular opening leads to the interior of Makauwahi Cave. If the gate is open, please feel welcome to come on in. A separate brochure “Welcome to Makauwahi Cave” provides details on the attractions inside.

If the gate is open, please feel free to enter; being careful not to bump your head on the top of the opening. Do not attempt to enter when gate is closed. Please leave dogs outside on a leash.

Guided tours are available Daily 10-4

16. MILO PATCH. Milo (Thespesia populnea) is a valuable timber tree that probably reached the island in the voyaging canoes of the first Hawaiians.

East of the footbridge the trail leads to numbers 17-19. From there you can return by backtracking the trail, or via the adjacent beach.

17. ESTUARY. The mouth of Waiopili Stream is a landscape that is exposed to high stages of both the ocean and the stream. Clay and sand layers are constantly laid down and removed, shifting banks and sandbars at the whim of the ocean and terrestrial floodwaters.

This portion of the trail is shared with horseback riders, so be alert!

18. VIEW OF HAUPU RIDGE. Look eastward here toward Mt. Haupu, the highest point on the south shore of the island. This is essentially the same view that early missionary Hiram Bingham sketched in his notebook, nearly two centuries ago, labeling the scene “Mahaulepu, 1824.”

Can you see the outline of Haupu Ridge in the background? Note in the foreground 34 grass houses. (Courtesy of Missionary Children’s Museum).

19. FIELD OF DREAMS. The landscape before you here beckons us to other times. Planted on farmland that had been abandoned for years, a new native forest flourishes here. To learn more about prehistoric and future environments, see Dr. Burney’s book Back to the Future in the Caves of Kaua‘i, available from all major bookstores and internet booksellers.

This brochure is keyed to the numbers on posts along the trail. It can be walked from either end, or you can begin in the middle. The brochure can be returned to one of the boxes for others to use. You can obtain a personal copy, or donate at www.cavereserve.org

1. MAKAUWAHI CAVE RESERVE is a nature park created by Dr. David and Lida Pigott Burney with the aid of staff, volunteers, interns, and Joe Kanahale, Reserve Caretaker. The property belongs to Grove Farm Company.

2. PILA’S POINT. From here, you can see all of the Maha‘ulepu area, a great sweep of ocean, shoal, shore, beach vegetation, lowland irrigated agriculture, limestone quarry, and pasture. Looking inland from this small hilltop, you can see the volcanic spatter cones of Koloa, probably the last to erupt on Kauai many thousands of years ago. In the midground is the abandoned Koloa Sugar Mill, a rusting monument to the days when sugar plantations dominated this landscape.

3. OFFSHORE EXCITEMENT. Depending on the season, you may see offshore here humpback whales, spinner dolphins, monk seals, green sea turtles – and plenty of wind-surfers!

Mahalo to Jason Cabot of Boy Scout Troop 83, Lihue, for choosing this trail as his Eagle Scout Award project.
Guide to the MAKAUWAHI CAVE TRAIL

4. ON TOP OF THE CAVE. As you make your way carefully down this winding trail, you are walking on the “headprint” of a large cave passage underneath. Below ground live organisms specialized for life in total darkness, including blind cave invertebrates. The subterranean food chain begins with substances exuded from the roots of native plants featured here.

Below ground live organisms specialized for life in total darkness, including blind cave invertebrates. The subterranean food chain begins with substances exuded from the roots of native plants featured here. Carefully down this winding trail, you are walking on the “headprint” of a large cave passage underneath. 4. ON TOP OF THE CAVE.

At the trail junction, you can take a short side trip to #’s 6-8 by turning left, or go straight ahead to the cave overlook.

5. NATIVE “ROCK GARDEN” PLANTS. Some beautiful and sweet-smelling native flowers have been re-introduced to this landscape that are commonly found as fossils in the cave sediments. These include the night-blooming caper plant, maiapilo (Capparis sandwichiana) and the naio shrub (Myoporum sandwicense). Like the hardy ‘a‘ai shrub (Dodonaea viscosa) they send down long roots into the cave in search of water.

6. RARE DRY FOREST HABITAT. Thousands of native plants of over 50 species have been planted throughout the reserve. These are plant species that have adapted to the local seasonally dry conditions of the island’s leeward south shore over the many millennia prior to the arrival of humans. Hawaiian lowland dry forest is the rarest of natural habitats in the islands today, with less than 5% of the original dry forest remaining. Some species planted here by staff, students, and volunteers are quite scarce today, although they are thriving and reproducing in our restorations. Our native plants provide seeds and cuttings for other native plant restorations around the island.

7. RIM TRAIL. Enjoy the great views here, but also watch your step! On one side is the 80 foot cliff that drops into the sinkhole, with many hidden holes that a person can drop through. On the other side is the rugged terrain of the old limestone quarry, an area off-limits to the public due to the dangers posed by quarrying activity.

8. VIEW FROM CLIFF. From this spot you can see virtually the entire reserve, as well as the valley of Maha‘ulepu and the mountains beyond. For an artist’s interpretation of what this scene might have looked like before the first people, see Dr. Burney’s book Back to the Future in the Caves of Kaua‘i: A Scientist’s Adventures in the Dark (Yale Press). It features a mural by Dr. Julian Hume, painted from a viewpoint near this trail, depicting the prehuman landscape and the rich diversity of plants and animals that have been found as fossils in the sinkhole.

From #8 you can take the rough trail down the hill to complete the loop around the sinkhole, or if this looks too steep for you, return to #6 and make a left down the main trail to the cave overlook.

Mahalo for:
-- Keeping your dog on a leash.
-- Always giving horses the right of way.
-- Not damaging the native plants.

9. HAOLE KOA AND OTHER INVADERS. In case you are curious as to what this area looked like before restoration to native plants was begun a few years ago, look beyond this sign: a thicket dominated by two kinds of aggressive weed trees introduced to Kaua‘i in the 19th century, haole koa (Leucaena leucocephala) and kiawe (Prosopis pallida). Left unchecked, these aggressive plants from the American tropics will cover the area and shade out nearly all native plants.

10. HAWANE OR LOULU PALM. Here where the foot trail passes near the horse trail, take special care to watch out for equestrians, and avoid using their trail for safety reasons. Notice here and throughout the Reserve that a reintroduced native palm (Pritchardia aylmer-robinsonii = P. remota) is thriving, called hawane or lolu by Hawaiians. Although nearly extinct in the wild, this palm or a close relative was among the most common pollen and seed types in the prehuman sediments of the cave. Some of the individuals growing in the sinkhole, although only planted as recently as July, 2002, are now almost 40 feet tall!

11. RESTORATION HISTORY: These lovely kou trees were the very first native plants set out at Makauwahi Cave. That was 1999, at the very beginning of our restoration efforts. Since that time, nearly 10,000 native and Polynesian plants have been reintroduced to this landscape, using the fossil record here as a guide to plant choices. Students and visitors from the island, the state, the nation, and the world have helped plant and care for these returning natives.

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