

OBYAN BEACH

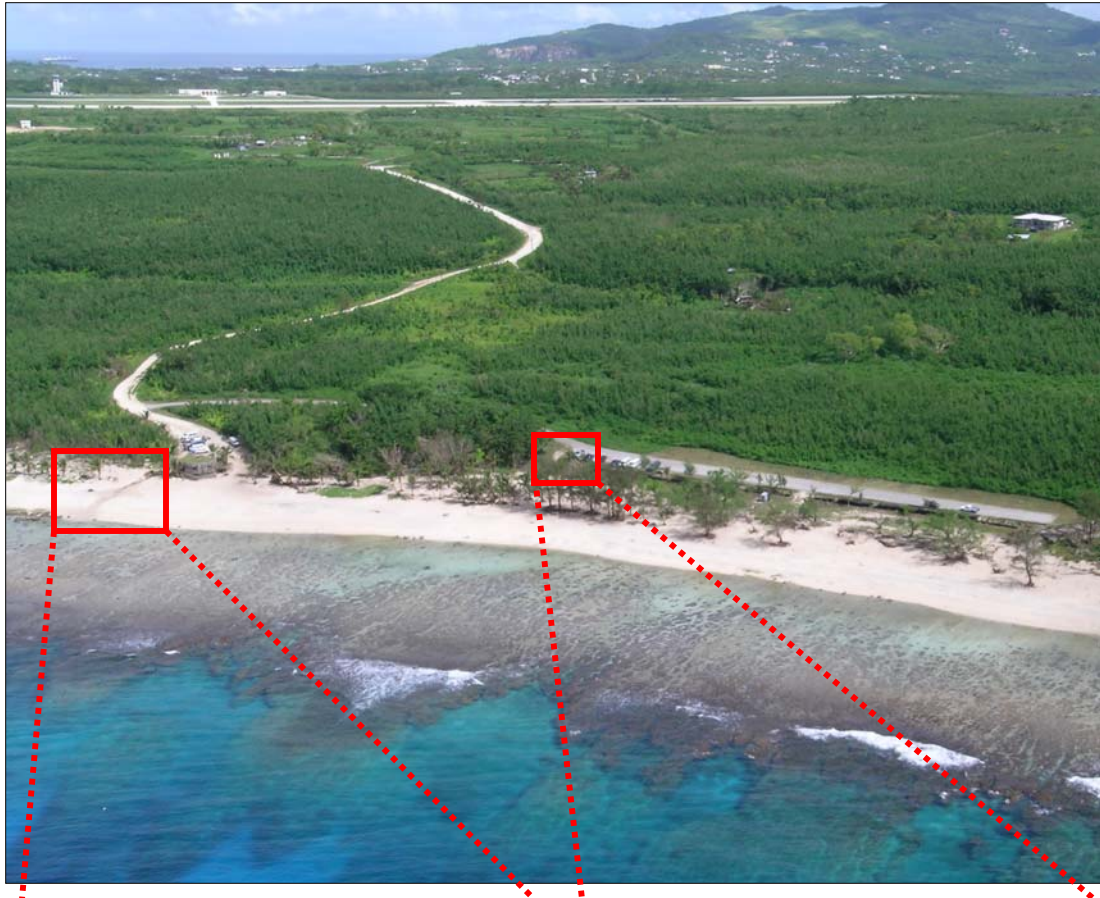
Stormwater Controls & Public Access Improvements
Saipan, CNMI

Project Site:

Obyan Beach is one of Saipan's most popular recreational areas for locals and tourists alike. Obyan's well-developed reef ecosystem allows divers and snorkelers to observe a wide variety of corals, fish, and marine invertebrate species. A beautiful white sand beach and shade trees, combined with views of the reef, ocean, and neighboring Tinian Island make Obyan an ideal recreational location, and provide prime nesting habitat for sea turtles. In addition to its natural features, Obyan contains significant historical sites, such as a WWII Japanese bunker and machine gun nests; pre-Spanish era Chamorro *Latte Stones*, basalt mortar stones, slingstones, and pottery shards from the pre-Latte, Latte, and Spanish eras.

Problem:

Obyan's reef ecosystem is threatened by sedimentation caused by stormwater runoff and erosion of the unpaved access road and areas adjacent to the parking lot. Lack of beach access controls allows vehicles onto to beach, damaging turtle habitat. Erosion threatens historical sites. Lack of trash receptacles encourages littering. Informational signage is needed.



Erosion at base of access road.



Erosion & Illegal vehicle access.

OBYAN BEACH (continued)

Solution:

Phase I

Pave access road and construct stormwater controls. Construct stairs at parking lot to enhance public access and block unauthorized vehicular access. Provide trash receptacles at stair locations.

Phase II

Design and construct site improvements to include drainage system, permeable paving and landscaping of parking lot; Restore/enhance historical sites; Provide informational signage; Construct concrete tables and benches with trash receptacles.

Project Status:

Phase I

Engineering design completed. Project permitting ongoing. Water quality monitoring (DEQ) ongoing.

Phase II

A/E conceptual design completed.

Funds Required for Implementation:

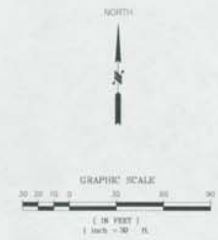
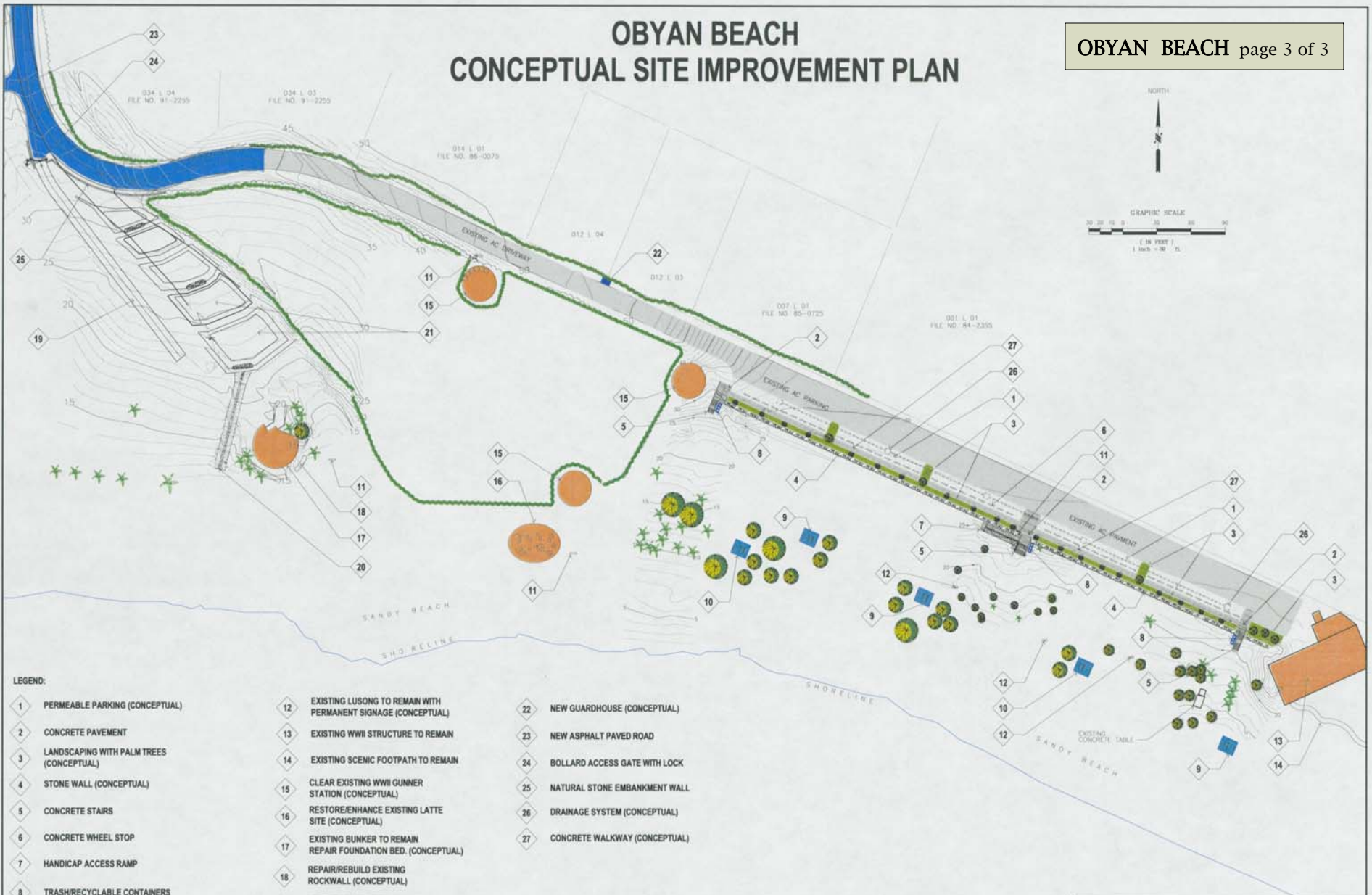
Phase I: \$400,000

Phase II: \$275,000*

(* Preliminary estimate)



OBYAN BEACH CONCEPTUAL SITE IMPROVEMENT PLAN



LEGEND:

- | | | |
|--|---|--|
| <ul style="list-style-type: none"> 1 PERMEABLE PARKING (CONCEPTUAL) 2 CONCRETE PAVEMENT 3 LANDSCAPING WITH PALM TREES (CONCEPTUAL) 4 STONE WALL (CONCEPTUAL) 5 CONCRETE STAIRS 6 CONCRETE WHEEL STOP 7 HANDICAP ACCESS RAMP 8 TRASH/RECYCLABLE CONTAINERS 9 CONCRETE TABLE/BENCHES WITH BBQ & TRASH RECEPTACLES ON PAD (CONCEPTUAL) 10 CONCRETE TABLE/BENCHES ON PAD (CONCEPTUAL) 11 PERMANENT SIGNAGE (CONCEPTUAL) | <ul style="list-style-type: none"> 12 EXISTING LUSONG TO REMAIN WITH PERMANENT SIGNAGE (CONCEPTUAL) 13 EXISTING WWII STRUCTURE TO REMAIN 14 EXISTING SCENIC FOOTPATH TO REMAIN 15 CLEAR EXISTING WWII GUNNER STATION (CONCEPTUAL) 16 RESTORE/ENHANCE EXISTING LATTE SITE (CONCEPTUAL) 17 EXISTING BUNKER TO REMAIN REPAIR FOUNDATION BED (CONCEPTUAL) 18 REPAIR/REBUILD EXISTING ROCKWALL (CONCEPTUAL) 19 PONDING BASIN SERVICE ROAD AND VEHICLE EMERGENCY ACCESS 20 NATURAL ROCK BASIN OVERFLOW DRAINAGE CHANNEL 21 TERRACE PONDING BASINS WITH REVEGETATED AREA | <ul style="list-style-type: none"> 22 NEW GUARDHOUSE (CONCEPTUAL) 23 NEW ASPHALT PAVED ROAD 24 BOLLARD ACCESS GATE WITH LOCK 25 NATURAL STONE EMBANKMENT WALL 26 DRAINAGE SYSTEM (CONCEPTUAL) 27 CONCRETE WALKWAY (CONCEPTUAL) |
|--|---|--|

NOTE:
ITEMS IDENTIFIED AS "CONCEPTUAL" WILL BE EXCLUDED FROM DESIGN DRAWING.

Engineers & Architects Corp.

Suite 301 • Bank of Hawaii Building
Marina Heights Business Park
P.O. Box 502415, Saipan MP 96950-2415
Tel: 322-7814 • FAX: 322-8044
E-mail: efc@obyan.com