

530

July 1, 1974

REF:
CA-2/1/74-529
CA-2/11/74-530

MEMORANDUM

TO: Mr. James J. Setor, Program Administrator
Division of Land Management

FROM: Sunao Kido, Chairman
Board of Land and Natural Resources

SUBJECT: Board Action on Conservation District Use Applications

CA-2/1/74-529, Application for Storm Drain Outlet Use at Niu, Island of Oahu, at the request of Hawaii Loa Ridge, Inc.

The Board, at its meeting of June 28, 1974, approved the application, subject to the amended conditions listed in Item H-2, attached hereto.

CA-2/11/74-530, Application for Shore Protection and Restoration Use at Kalia Beach, Waikiki, at the request of DOT, Harbors Division

The Board, at its meeting of June 28, 1974, approved the application, subject to the conditions listed in Item H-7, attached hereto.

Your follow-up action on these applications will be appreciated.

BOARD OF LAND AND NATURAL RESOURCES

SUNAO KIDO
Chairman and Member

attach.

cc: C&C Land Utilization
C&C Bd. of Water Supply
DOH, CEQC, LSC, DOT,
Corps Engrs.
Oahu Land Bd. Members

W
bcc: Divisions
ts

State of Hawaii
DEPARTMENT OF LAND AND NATURAL RESOURCES
Honolulu, Hawaii

June 28, 1974

OA-2/11/74-530

Board of Land and
Natural Resources
State of Hawaii
Honolulu, Hawaii

Gentlemen:

Conservation District Use Application for
Shore Protection and Restoration Use at
Kuhio Beach, Waikiki, Island of Oahu

APPLICANT:

DLNR Division of Land Management at the request of
Dept. of Transportation
Harbors Division
State of Hawaii
Honolulu, Hawaii

USE REQUESTED:

Shore Protection and Restoration

LOCATION:

Kuhio Beach, Waikiki, Oahu, offshore areas adjacent to
TMK: 2-6-01:3 & 4

AREA OF USE:

Approximately 3.5 acres.

DESCRIPTION OF AREA/BACKGROUND INFORMATION:

The project area is at Kuhio Beach, which is a part of Waikiki Beach running parallel to Kalakaua Avenue. The beach extends about 1,500 feet from opposite Uluniu Avenue, at its northern end to Kapahulu Avenue at its southern end. The beach area is bordered on the north by the Ewa Groin, which was reconstructed in 1972, and on the south by the Kapahulu Storm Drain and Groin.

There is an intermediate (Diamond Head) Groin, which separates the beach into two sectors.

About 150 to 200 feet offshore is a 1,450 foot cribwall with a zero elevation along the Ewa sector and a +3 elevation at the Diamond Head sector. Beyond the cribwall, the reef extends seaward about 2,000 feet.

ITEM H-7

The Diamond Head sector of the beach is fully enclosed by the groins and cribwall, except for circulation openings at both ends of the cribwall. Since the construction of a 90 foot sand beach in the area in 1972, there has been almost no sand loss.

The Ewa sector of the beach, however, has had a steady sand loss due to waves overtopping the existing cribwall. The waves approach the beach in a south to southwest direction, carrying the sand around the Ewa groin. The DOT estimates that over 1/3 of the 90 foot beach constructed in 1972 has been lost.

The reef area immediately outside the Ewa wall consists of sand, rubble and limestone. Marine life in this area is sparse with only a few transient fishes observed. No live coral has been seen in the vicinity.

The beach area serves a multiplicity of recreational uses, including swimming, wading and sunbathing. Areas northwest of the Ewa groin are also popular surfing sites. A promenade area mauka of the beach provides shelters and card tables for senior citizens.

DESCRIPTION OF PROPOSED USE:

The DOT proposes to construct a 100' extension to the Diamond Head Groin (in the Ewa Direction) a 200' breakwater over the existing cribwall, and a 100 foot extension to the Ewa Groin (in the Diamond Head Direction). The project is an effort to correct the sand loss situation now occurring in the Ewa sector of Kuhio Beach.

Two breaks between the groin extensions and the breakwater will allow water circulation. The typical groin and breakwater structure will be constructed of a layer of 800# to 1000# stones over 50# to 100# rock spalls. The upper section of the structures will be permeable to sand movement and water. The lower section will have a rock core, including the existing cribwall and be impermeable. The groin extensions and breakwater will have an elevation of about 3.5 feet above mllw.

The DOT also proposes to import about 2,000 cubic yards of sand upon completion of the protective structures to restore the beach to its 90 foot width. The sand will be placed from the retaining wall along the promenade on the mauka end at a +6 elevation for 30 feet, then at a 10:1 slope to the existing ocean bottom. The deepest portion of the swimming area in this sector will be 4 feet.

Sand will be clean, natural sand similar to that existing in the area. The source of the sand will be the responsibility of the successful bidder for the construction contract.

The project will take about 4 months to complete, and cost approximately \$132,000. Construction is scheduled to commence around August, 1974.

SUMMARY OF COMMENTS RECEIVED:

The City and County's Dept. of Land Utilization states that sufficient public hearings and meetings have been held on the project to satisfy the Shoreline Setback Rules and Regulations. They point out that the overall project has been successful in restoring the beach for public enjoyment. They hope that the subject improvement furthers this success.

The City and County of Honolulu's Board of Water Supply has no objections to the proposed use.

The Department of Health feels that the project will not create any major problems with regards to State Water Quality Standards. They do anticipate some minor adverse conditions resulting during the construction phase of the project which cannot be avoided. They therefore suggest that the water quality be monitored before and after construction to demonstrate the extent to which the quality of the water is affected.

The Corps of Engineers states that the proposed improvement is part of the Waikiki project in which the Corps is participating, therefore, a Department of the Army permit is not required.

STAFF ANALYSIS:

The project is part of an on-going program to improve the Kuhio Beach area, and is in accord with the Waikiki Beach Erosion and Control Study by the Corps of Engineers and the subsequent Kuhio Beach Restoration Plan adopted by the Kuhio Beach Advisory Committee.

This is a joint Federal/State effort, being carried out at the State level by the Dept. of Transportation. Discussion with DOT staff indicate their confidence that the project will help to minimize any further sand loss from the beach area.

The OEQC has approved the Non-Impact Statement for the project. In their findings, they state that in their opinion the project will not create any significant environmental impact to the area, although some minor impacts will occur as a result of the construction activities. These effects are expected to be of a temporary nature. The OEQC also suggests that the DOT monitor water quality of the area both before and after construction to insure that the project does not significantly degrade the waters of the area. Staff concurs with the findings of the OEQC, and insofar as the project will enhance the recreational uses of the area, staff finds no objections to the proposed use.

RECOMMENDATION:

Staff recommends that the Board approve the Use Requested, subject to the following conditions:

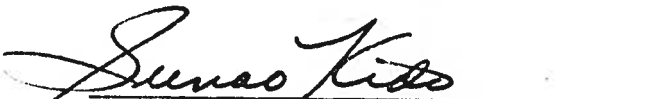
1. The applicant shall submit a minimum of three copies of plans for earthwork and construction to the Chairman for review and approval prior to the start of work activity.
2. The applicant shall notify the department upon the commencement and at the completion of all work.
3. All debris and rubbish from the work activity shall be removed to approved sanitary disposal sites.
4. Upon termination of the use, the area shall be restored to a suitable condition, satisfactory to the department.
5. The applicant shall obtain clearance from the appropriate County agency as to the safety of the proposed construction.
6. The applicant shall comply with all applicable statutes, ordinances, rules and regulations of the Federal, State and County governments.
7. Time Limit of Permit. Upon approval of this application, the applicant shall have a period of one year from the date of approval in which to initiate construction of the project.
8. The DOT shall monitor the water quality of the area before and after construction to insure that no degradation of the offshore waters occurs. Should degradation occur, the DOT shall be responsible to take the necessary corrective action.

Respectfully submitted,



GORDON SOH, Program Planning
Coordinator

RECOMMENDED FOR APPROVAL .


SUNAO KIDO, Chairman