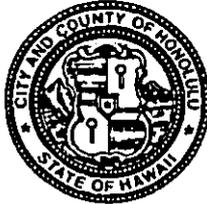


DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

850 SOUTH KING STREET, 11TH FLOOR
HONOLULU, HAWAII 96813
Phone: (808) 523-4564 • Fax: (808) 523-4567
Website: www.cc.honolulu.hi.us

JEREMY HARRIS
MAYOR



March 11, 2003

RECEIVED

TIMOTHY E. STEINBERGER, P.E.
ACTING DIRECTOR

GEORGE T. TAMASHIRO, P.E.
ASSISTANT DIRECTOR

'03 MAR 11 A9:21

OFF. OF ENVIRONMENT/
QUALITY CONTROL

Ms. Genevieve Salmonson, Director
Office of Environmental Quality Control
State Office Tower
235 South Beretania Street, Room 702
Honolulu, Hawaii 96813

Dear Ms. Salmonson:

Subject: Finding of No Significant Impact (FONSI)
Mauumae Nature Park Master Plan, Tax Map Key 3-3-014: 015, and 017
Honolulu, Oahu, Hawaii

We have reviewed the comments received during the 30-day public comment period that began on December 8, 2002. We have determined that this project will not have significant environmental effects and have issued a FONSI. Please publish this notice in the next edition of the Environmental Notice.

A completed OEQC Publication Form and four copies of the final environmental assessment are enclosed.

Please call Mr. Terry Hildebrand at 523-4696 if there are any questions.

Very truly yours,

A handwritten signature in black ink, appearing to read "T. Steinberger".

TIMOTHY E. STEINBERGER, P. E.
Acting Director

TES:ei

Enclosures

cc: Gerald Park Urban Planner

MAR 23 2003

2003-03-23-0A-PEA

FILE COPY

FINAL ENVIRONMENTAL ASSESSMENT

(MAU'UMAE NATURE PARK MASTER PLAN)
Honolulu, Oahu, Hawaii

Prepared for

Department of Design and Construction
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

March 2003

FINAL ENVIRONMENTAL ASSESSMENT

MAU'UMAE NATURE PARK MASTER PLAN
Honolulu, Oahu, Hawaii

Prepared in Partial Fulfillment of the Requirements
of Chapter 343, Hawaii Revised Statutes and
Title 11, Chapter 200, Hawaii Administrative Rules,
Department of Health, State of Hawaii

Prepared for

Department of Design and Construction
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Prepared by

Gerald Park Urban Planner
1400 Rycroft Street, Suite 876
Honolulu, Hawaii 96814

and

Dana Anne Yee, Landscape Architect LLC
1717 Mott-Smith Drive, Suite 904
Honolulu, Hawaii 96822

March 2003

PROJECT PROFILE

Proposed Action: Mau'umae Nature Park Master Plan

Proposing Agency: Department of Design and Construction
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Approving Agency: Department of Design and Construction for
Mayor, City and County of Honolulu

Need for Assessment: Propose the use of county lands or funds

Tax Map Key: 3-3-014: 015, 017
Land Area: 173,149 square feet or 3.97 acres
Landowner: City and County of Honolulu

Existing Use: Passive Park, Vacant Land

State Land Use Designation: Urban
Development Plan: Primary Urban Center
Land Use Map: Park
Public Facilities Map: No Symbol
Zoning: P-2 (General Preservation)
Special District: None

Anticipated Determination: Finding of No Significant Impact

Contact Person: Terry Hildebrand
Project Coordinator
Department of Design and Construction
City and County of Honolulu
650 South King Street, 9th Floor
Honolulu, Hawaii 96813

Telephone: 523-4696

Note: Revisions to the text of the Draft Environmental Assessment are in ***bold italic*** type. Deleted text is shaded.

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The Department of Design and Construction, City and County of Honolulu, is preparing a Master Plan for site improvements at Mau'umae Nature Park located in the Kahala Water Subdivision, Mau'umae Ili, Palolo ahupua'a, Honolulu, Oahu. The City owned park is located in a residential neighborhood bounded by Koko Drive to the north, Claudine Street to the south, residences to the east, and 16th Avenue to the west. Residential dwellings border the park across Claudine Street, 16th Avenue, and overlooking the eastern end of the parklands. A Location Map is shown in Figure 1.

The lots comprising Mau'umae Nature Park are identified as tax map key 3-3-014: 015 and 017 encompassing an area of 3.97 acres. Although Parcel 17 (1.52 acres) is part of the Nature Park the Master Plan does not propose any improvements to this lot. ***The Master Plan also does not propose improvements to TMK: 3-3-019: 005 a parcel above Koko Drive that also comprises the Nature Park (Department of Parks and Recreation Comment).*** A Tax Map is shown in Figure 2.

The Board of Water Supply ("BWS") owns two lots (Parcels 16 and 18) separating parcels 15 and 17. The BWS is drilling a production well ("Waialae West Well") and will be building pumping facilities on the eastern section of parcel 16. Parcel 18 is leased to Hawaiian Electric Company, Inc. for a transformer station site.

A. Objectives of the Master Plan

The Mau'ume Master Plan was prepared in collaboration with the Mau'umae Nature Park Advisory Committee. The Master Plan recommends improvements to that portion of the larger 33 acre park below Koko Drive. A small lawn area (0.9 acre at the corner of Claudine Street and 16th Avenue) has been developed for passive recreation use and the remainder of the park above Koko Drive is sloping terrain marked by large boulders and rock outcroppings covered by brush. The objectives of the Master Plan are to:

- Maintain the natural, rugged, brush covered landform.
- Enhance the passive recreation functions now taking place at the park.
- Provide facilities to accommodate desired recreational activities and park users.
- Foster the propagation of native plants, Polynesian introduced plants, and plants used in the Hawaiian culture.

B. Technical Characteristics

The existing lawn area of approximately 0.9 acres will be removed and planted with new grass and groundcover. A meandering walkway (***of approximately 3,580 sf***) will be built circling the new lawn and connect with the proposed parking lot to make the park accessible for the handicapped. The walkway will also create open and intimate spaces for play. The walkway will be ADA accessible from the existing 16th Avenue sidewalk and the proposed parking lot.

A corner of the lawn area has been designated for a children's play area where a play apparatus should be installed.

Currently, there is no off-street parking available for park users. The Master Plan proposes constructing a parking area mauka of the lawn area and below an earthen drainage swale on the 16th Avenue side of the project site. This area is selected because topographical and drainage conditions preclude locating a parking lot further upslope. The parking area would be accessed from 16th Avenue via a 24-foot wide, two-way driveway. The 20-stall (approximate) parking lot would be sited parallel with 16th Avenue and setback a minimum of 20 feet from the road. This setback would be landscaped using existing Kiawe Trees and additional plantings for screening purposes. **ADA accessible parking stalls will be provided (Department of Transportation Services Comment).**

The Master Plan recommends locating a small comfort station (City Prototype C-2) between the lawn area and the parking lot adjacent to the sidewalk along 16th Avenue. The comfort station would connect to an existing 8-inch sewer located within 16th Avenue.

A hiking trail is proposed from the lawn area up to the existing drainage swale. The trail would be designed for ease in climbing. Branches from this main trail can lead hikers to other parts of the Park where they can view the landform, native plants, or views in the direction of the ocean.

Existing on-site drainage patterns are adequate to accommodate the limited facilities and improvements proposed by the Master Plan.

A new irrigation system would be installed in the existing lawn area. The Mau'umae Nature Park Advisory Committee has requested that a tap off the irrigation line be extended mauka up to Koko Drive. The tap would be used for irrigating native plants along the nature trail and at other locations on the sloping mountainside. An irrigation system will also be installed in the parking area per Land Use Ordinance requirement.

The Master Plan proposes improvements only on parcel 15. The second lot, parcel 17, which is a sloping lot abutting against residential dwellings on the upslope, will remain undeveloped. **The Nature Park above Koko Drive will remain undeveloped except for the existing hiking trail (Department of Parks and Recreation Comment).**

C. Economic Characteristics

Construction costs for the proposed improvements are estimated at \$.95 million and will be funded by the City and County of Honolulu through CIP funds. The City and County of Honolulu has appropriated \$145,000 in CIP funding for Phase I construction.

The Master Plan will be implemented in three phases. Phase I construction will commence after all necessary approvals are received. Phases 2 and 3 will be constructed, as design and construction funds are made available.

Phase I

Install new irrigation system for the lawn area	\$ 33,000.00
Construct ADA pathway at lawn area	45,000.00
Landscaping	57,000.00
Install ADA accessible water fountain	<u>10,000.00</u>

Phase I Cost \$ 145,000.00

Phase II

Construct parking area	\$ 147,000.00
Concrete hiking trail w/railing	62,000.00
Install play apparatus	50,000.00
Install irrigation system for the parking area and trail area	35,000.00
Install picnic tables, benches, and trash receptacles	21,000.00
Landscaping	<u>40,000.00</u>

Phase II Cost \$ 355,000.00

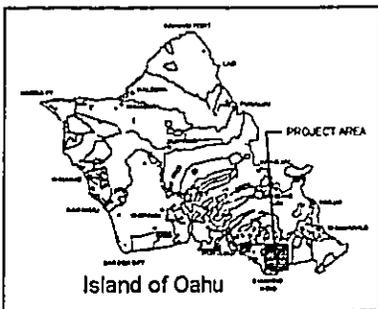
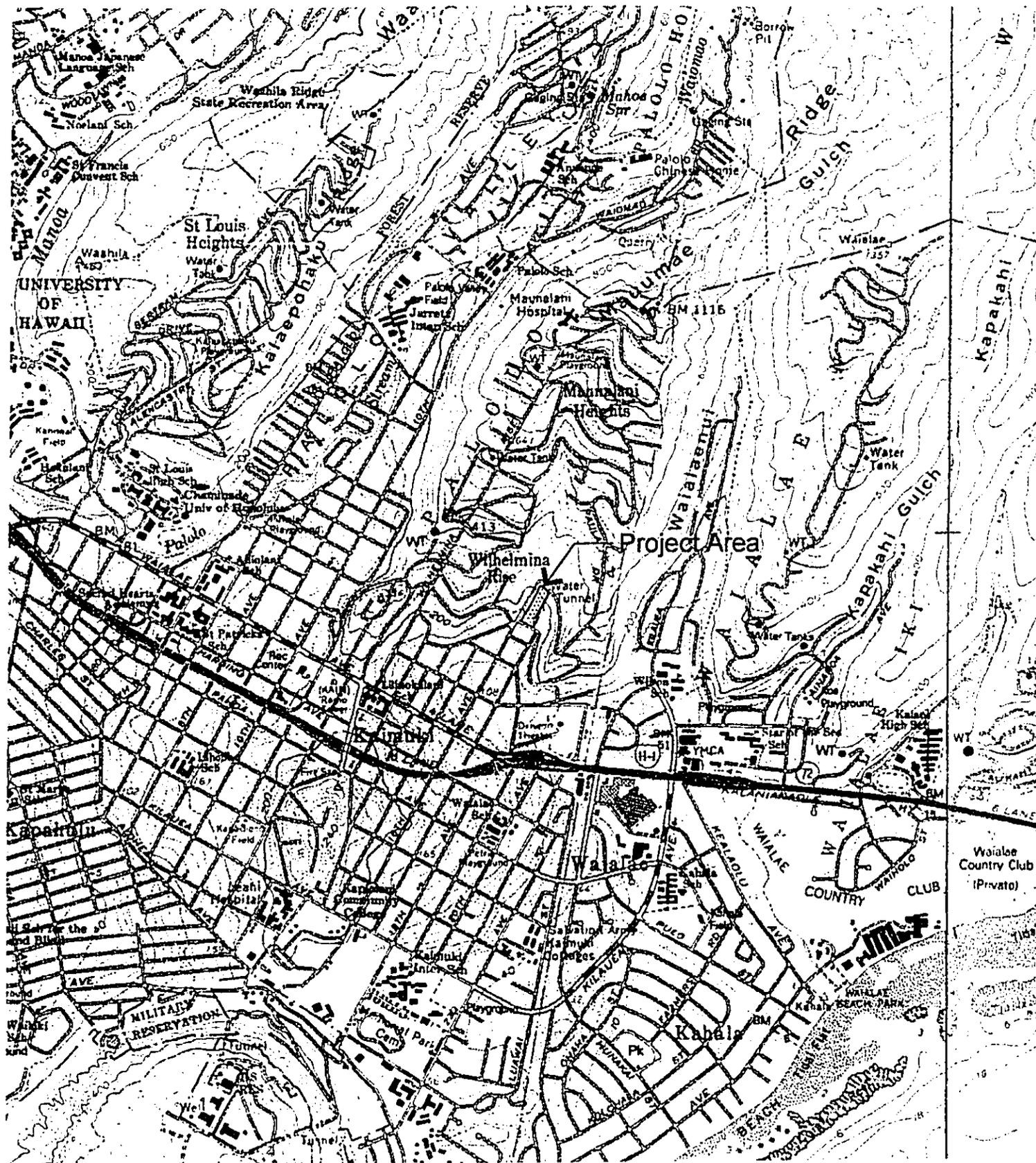
Phase III

Construct comfort station	\$ 450,000.00
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TOTAL: \$ 950,000.00

D. Social Characteristics

No residence or business will be displaced because of the improvements proposed by the Master Plan.



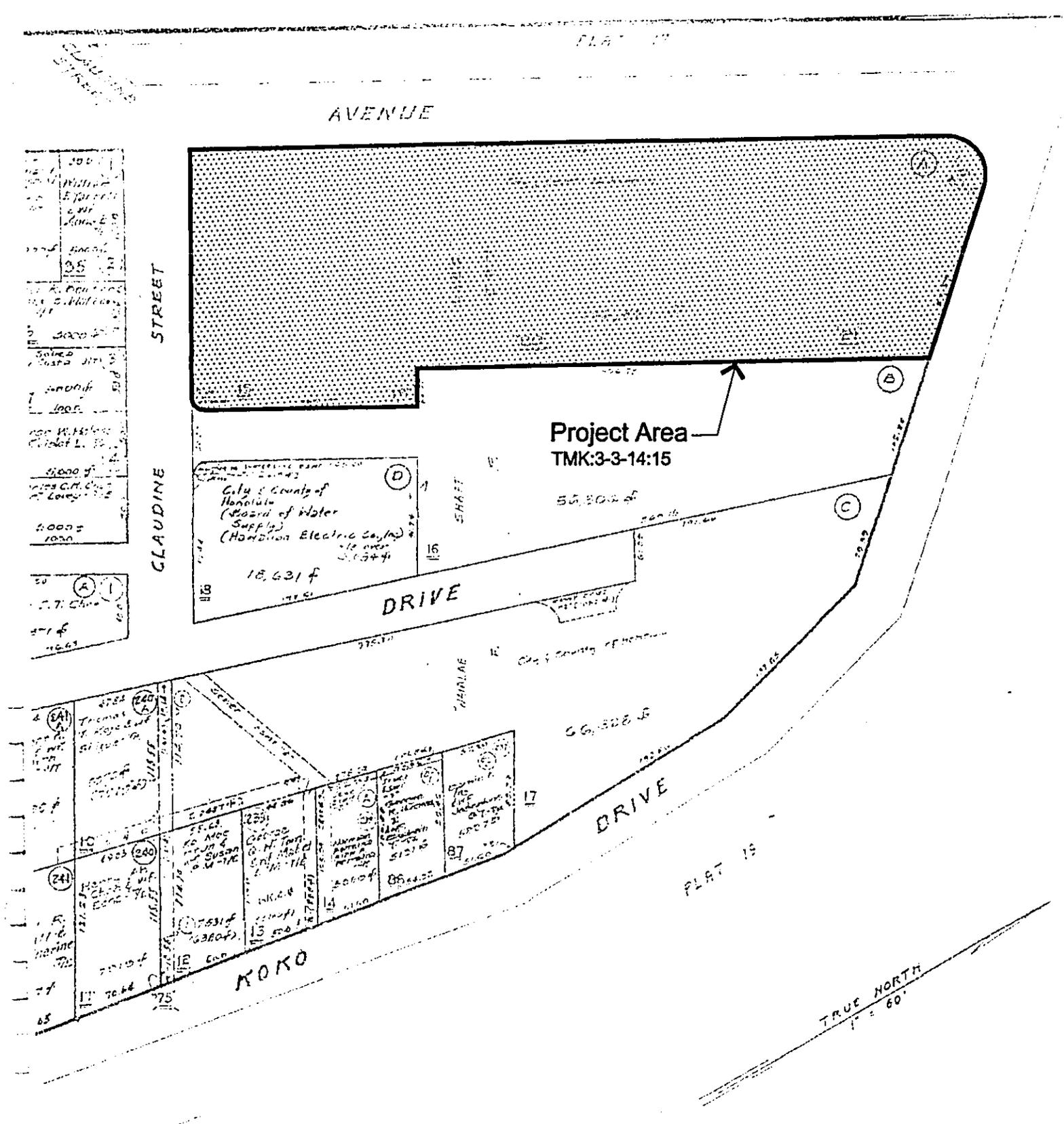
Source: USGS, Honolulu Quadrangle

Figure 1
Location Map
Mau'umae Nature Park

City & County of Honolulu Kaimuki, Island of Oahu



DOCUMENT CAPTURED AS RECEIVED



FIRST DIVISION		
ZONE	SEC	PLAT.
3	3	14
CONTAINING PARCELS		
Scale: 1" = 60ft.		

Source: Department of Taxation, Tax Map Bureau

Figure 2
Tax Map Key
Mau'umae Nature Park

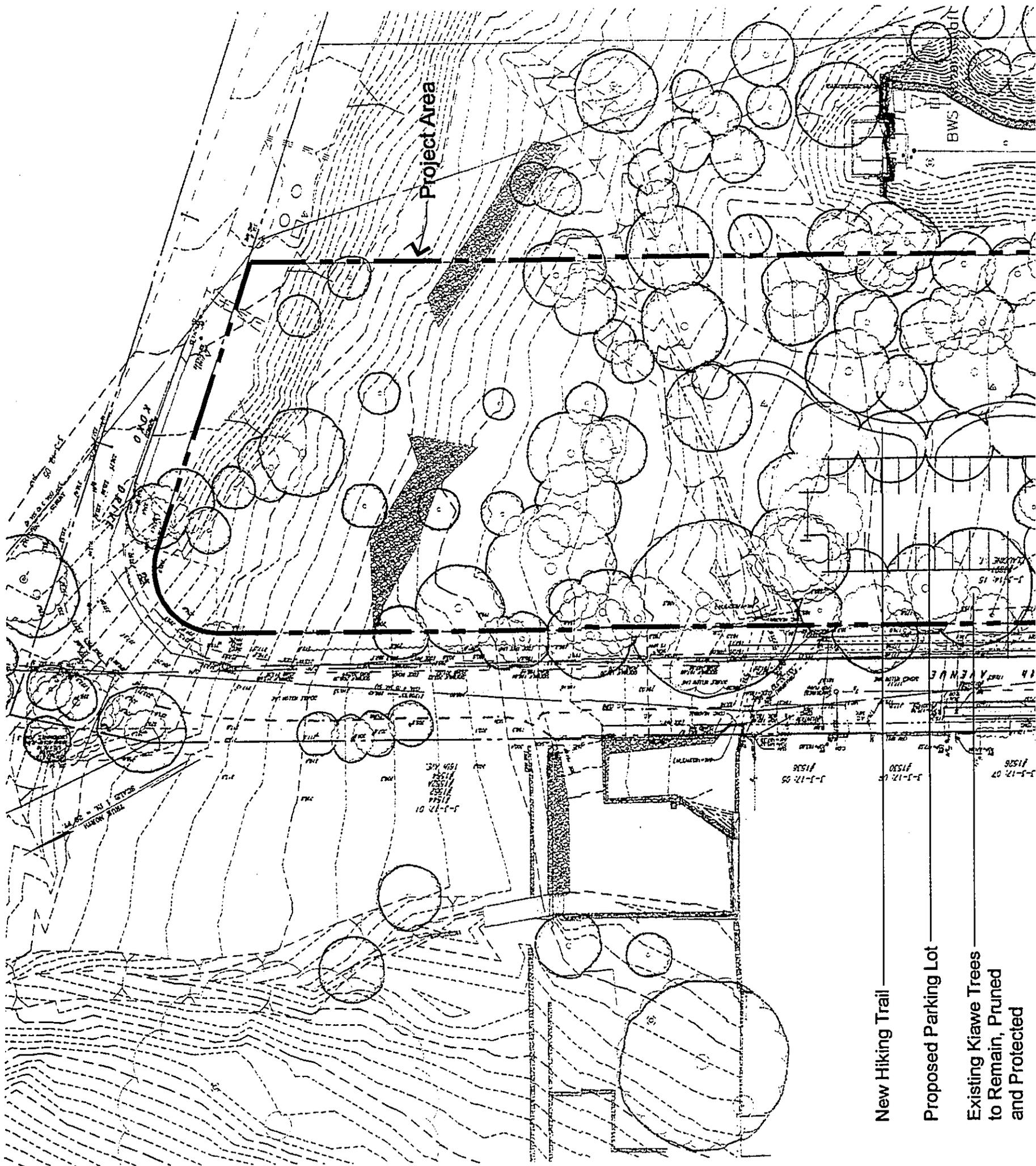
City & County of Honolulu
Kaimuki, Island of Oahu

NORTH

LINEAL SCALE (FEET)
0 25 50 100

Gerald Park
Urban Planner
August 2002

DOCUMENT CAPTURED AS RECEIVED



- New Hiking Trail
- Proposed Parking Lot
- Existing Kiawe Trees to Remain, Pruned and Protected

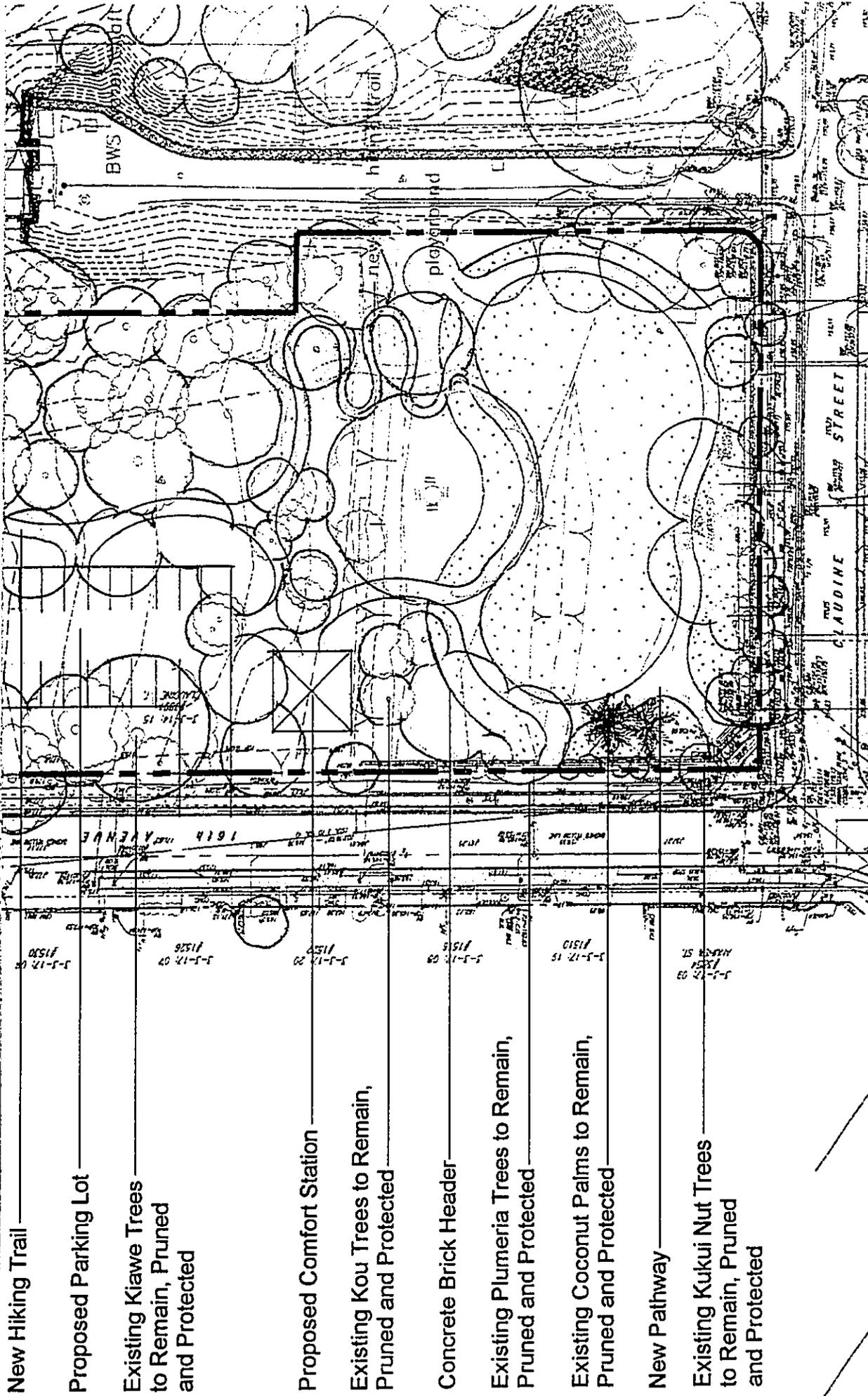


Figure 3
Site Plan
Mau'umae Nature Park

City & County of Honolulu
Kaimuki, Island of Oahu

LINEAL SCALE (FEET)
0 12.5 25 50

Gerald Park
Urban Planner
August 2008

A. Existing Use and Structures

The area proposed for improvement is part of *Mau'umae Nature Park*, a larger 33-acre park extending from Claudine Street up to an unnamed road across Pu'umalu Place. Koko Drive bisects the park into two sections.

Two Board of Water Supply lots separate the parklands. The smaller lot (parcel 18) is leased to Hawaiian Electric Company and has been developed as an electrical transformer site. The Board maintains control over the larger lot (parcel 16) on which it constructed its Waialae Shaft Water Tunnel. The Shaft is no longer in use but the BWS has drilled and will be constructing a production well ("Waialae West Well") on the property.

A 0.9 acre area at the intersection of Claudine Street and 16th Avenue has been grubbed, graded, and grassed for use as a passive park. Children and youth groups use the grass field for organized recreation (practice purposes) and open space play.

B. Topography

Three fairly distinct "topographical tiers" are evident at the project site. The lower tier along Claudine Street has been developed for passive park use and consists of a large relatively flat grass area that gently slopes up to the north with elevations ranging from 159-feet to 164-feet.

The middle tier comprises a grassy area about 240 feet deep between the flat park land below and the sloping terrain to the north. A 30 percent slope that rises 6 feet from the grass area separates the grass area from the remaining northern portion of the park. An earth lined drainage ditch bisects this middle section.

The northern portion of the park (undeveloped) contains large scattered boulders, rock outcroppings, and tall dense grass. The terrain has an approximate slope of 8 percent south of the existing drainage ditch and an approximate slope of 12 percent north of the existing drainage ditch. Just prior to reaching Koko Drive the terrain rises at a 50 percent slope. Elevations in the northern portion of the park above the 0.9 acre grass area range from 170-feet to 230-feet

C. Soils

The Soil Conservation Service (1972) soil map for the area identifies two soil types---Rock Land (rRK) and Kawaihapai Very Stony Clay Loam (KlbC)---covering the properties. Rockland is made up of areas where exposed rock covers 25 to 90 percent of the surface. The rock outcrops and very shallow soils are the main characteristics. The rock outcrops are mainly basalt and andesite. The soil material associated with the rock outcrops is very sticky and very plastic. It also has high shrink-swell potential. Buildings on steep slopes are susceptible to sliding when the soil is saturated.



Image 1. View of Improved 0.9 Acre Park.



Image 2. Makai View from Koko Drive.

Kawaihapai clay loam is a well drained soil that is stony in the subsurface. Runoff is medium and the erosion hazard is moderate. Workability is impractical unless the stones are removed.

D. Flood Hazard

The parcels comprising the park are not in a flood zone (See Figure 4). The Flood Insurance Rate Map places the park area in Flood Zone X. Zone X is defined as "areas determined to be outside [the] 500-year flood plain (Federal Emergency Management Agency).

E. Surface Water

No wetlands, ponds, streams, or federal jurisdictional waters exist in the project area.

F. Ground Water

Mau'umae Nature Park (and the general geographic area between Wilhemina Rise to the east and Ainakoa to the west) overlies the Waialae West aquifer system. This is a basal water source in which a layer of rainwater is floating as a lens on a body of salt water. The estimated yield of the aquifer is 4 million gallons per day.

The existing BWS Waialae Shaft Water Tunnel withdrew groundwater from this aquifer until it ceased operations in 1984. The BWS is now proposing to reactivate the well by drilling and installing a production well on its property (Waialae West Well). The BWS estimates the well can yield 0.160 mgd.

G. Flora

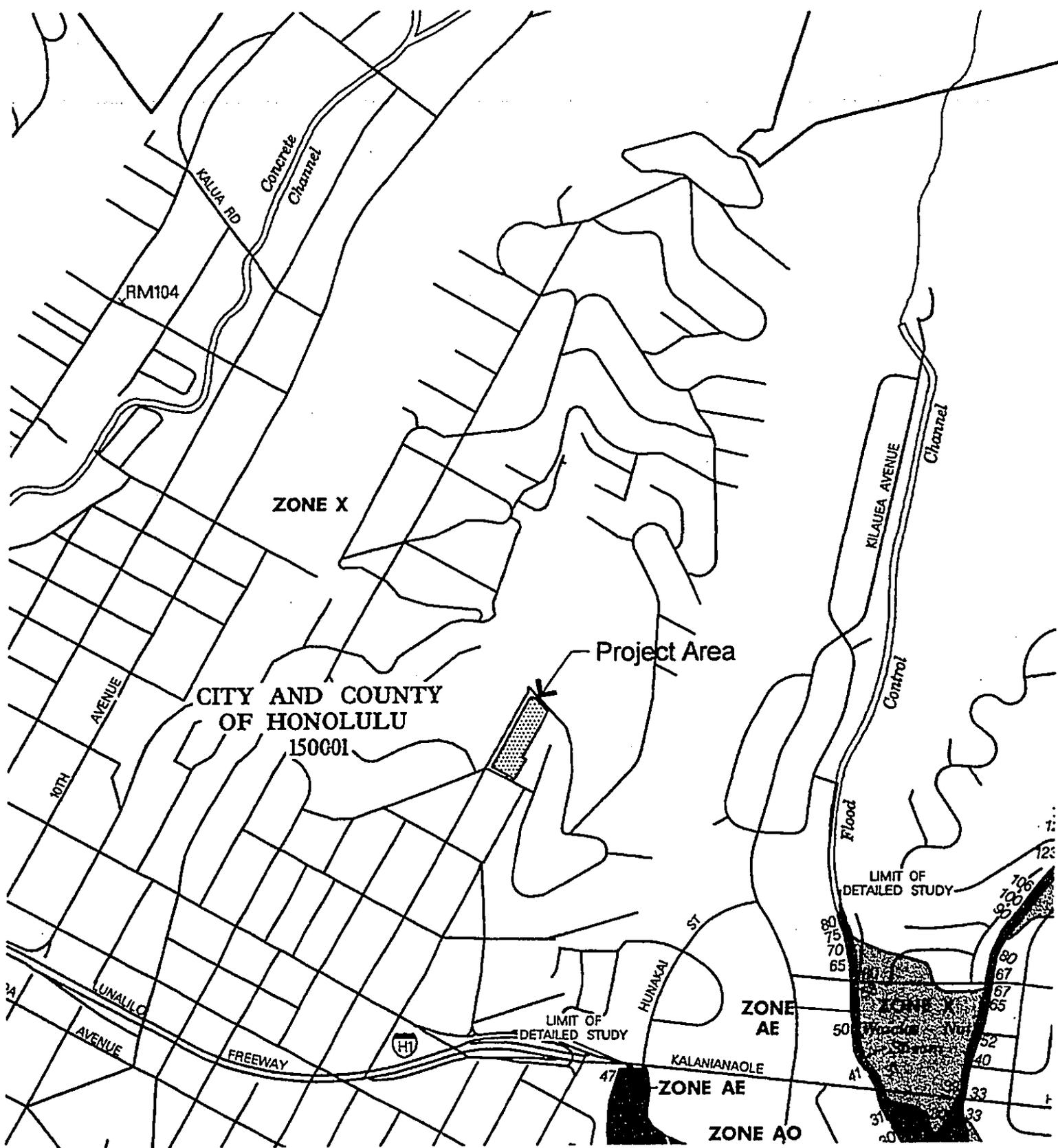
The existing park area has undergone substantial grading and landscape development and is covered with Bermuda grass (*Cynodon dactylon*) and introduced vegetation including Kou (*Cordia subcordata*), Kukui (*Aleurites moluccana*), Bougainvillea (*Bougainvillea glabra*), Plumeria (*Plumeria obtusa*), and Niu (*Cocos nucifera*).

In areas surrounding the developed park area, the vegetation is almost entirely exotic and includes Kiawe (*Prosopis pallida*), Klu (*Acacia farnesiana*), Haole Koa (*Leucaena glauca*), Monkeypod (*Samanea saman*), Wiliwili (*Erythrina* sp.), Partridge Pea (*Chamaecrista nictitanus*), Plumeria (*Plumeria* spp.), White Mulberry (*Morus alba*), Red-Flowered Boerhavia (*Boerhavia coccinia*), Bougainvillea (*Bougainvillea* spp.), Pikake (*Jasminium sambac*), and Mexican Creeper (*Antigonon leptopus*).

Polynesian introduced vegetation used for landscaping includes Kou, Kukui, Milo (*Thespesia populnea*), Noni (*Morinda citrifolia*), Glossy Nightshade (*Solanum americanum*), Niu, and Ti (*Cordyline terminalisa*). Within the project area only three indigenous plants were observed--Ma'o (*Gossypium tomentosum*), 'Ilima (*Sida fallax*), and 'Uhaloa (*Waltheria indica*).

H. Fauna

Owing to the presence of nearby residential structures, dog and cat probably frequent the site. In addition, the tall grass likely harbors mongoose and other rodents.



Legend
 Zone X Areas Determined to be Outside 500-Year Floodplains.

Figure 4
Flood Insurance Rate Map
Mau'umae Nature Park

City & County of Honolulu Kaimuki, Island of Oahu

NORTH

LINEAL SCALE (FEET)
 500 250 0 250 500 1000

Gerald Park Urban Planner
 August 2002

Source: Federal Emergency Management Agency
 Flood Insurance Rate Map
 Map Number 15003C0370 E
 Date: November 20, 2000.

Several species of birds were observed in the project area including the red-vented bulbul, red-whiskered bulbul, Kentucky cardinal, spotted dove, zebra dove, sparrow, common mynah. The only indigenous bird observed was the Pacific golden plover.

I. Archaeological Resources

Early historic maps of the project area identified three house structures located at the western and southeastern aspect of the project area (Cultural Surveys Hawaii, 2002). During the course of field work however, no remnants associated with the historic house structures were observed. The general location of the historic house structures was observed to be overgrown with weeds and grass and appears to have been bulldozed.

The Honolulu Board of Water Supply's Wai'alaie Shaft Water Tunnel was the only significant archaeological site identified during the archaeological inventory survey. The shaft may qualify as a significant engineering shaft type of the Board of Water Supply and a good example of an architectural construction of the 20th Century. This feature is on a separate parcel owned by the Board of Water Supply.

J. Cultural Resources

As part of the archaeological inventory survey, Cultural Surveys Hawaii (2002) also prepared a cultural assessment. Excerpts from the assessment are presented below.

No other archaeological sites are known in the vicinity. The nearest identified site lies 1.4 kilometers away in Pālolo Valley (Kawachi 1989). It is thought that the absence of surface water in the vicinity, poor workability of the soil (Foote *et al.* 1972:119), and modest rainfall would have generally discouraged traditional Hawaiian habitation and agriculture in the vicinity.

In Pālolo, burial sites have primarily been identified in low overhang caves along ridge edges. No such 'caves' are within the project area. The project area has been altered by residential housing development, roadways, parks, and the Wai'alaie Shaft water tunnel. No burial sites were identified during the inventory survey and the potential for unidentified burials appears exceedingly low.

The project area is not adjacent to any bodies of water thus the area was not fished.

The project area has been urbanized for 80+ years and most of the plants present are exotic weeds and remnants of landscaping. All identified plant species present with any known cultural use (anywhere in Hawai'i) are listed in Table 1.

Table 1. Plant Species within the Project Area with Known Cultural Use

HAWAIIAN NAME	SPECIES	COMMON NAME	USE
APOCYNACEAE (Dogbane Family)	<i>Plumeria obtusa</i>	plumeria, frangipani, pua melia	Exotic, one of the most common lei flowers
BORAGINACEAE			Polynesian introduction, wood

(Heliotrope Family)	<i>Cordia subcordata</i>	<i>kou</i>	avored for bowls & utensils, flowers for lei, seeds eaten, leaves to color fish lines
EUPHORBIACEAE (Spurge Family)	<i>Aleurites moluccana</i>	<i>kukui</i> , candlenut, indian walnut	Polynesian introduction, light, dye, medicine, condiment, lei, etc.
FABACEAE (Pea Family)	<i>Acacia farnesiana</i>	<i>klu, kolu</i> , aroma, popinac	Exotic, grown for fragrant flowers
FABACEAE (Pea Family)	<i>Leucaena leucocephala</i>	<i>koa haole, ekoa, haole koa</i>	Exotic, cattle feed
FABACEAE (Pea Family)	<i>Prosopis pallida</i>	<i>kiawe</i>	Exotic, cattle feed
MALVACEAE (Mallow Family)	<i>Sida fallax</i>	<i>`ilima</i>	Indigenous, used for lei
MALVACEAE (Mallow Family)	<i>Thespesia populnea</i>	<i>milo</i>	Indigenous, used for wood and fiber
MORACEAE (Mulberry Family)	<i>Morus alba</i>	white mulberry	Exotic, eaten as a fruit
OLEACEAE (Olive Family)	<i>Jasminum sambac</i>	<i>pikake</i> , Arabian jasmine	Exotic, grown for lei
RUBIACEAE (Coffee Family)	<i>Morinda citrifolia</i>	<i>noni</i> , Indian mulberry	Polynesian introduction, dye plant, used in hair as an insecticide, medicinal, famine food
SAPINDACEAE (Soapberry Family)	<i>Dodonaea viscosa</i>	<i>`a`ali`i k_makani, `a`ali`i, `a`ali`i k_makua</i>	Indigenous, popular in lei making
SOLANACEAE (Tomato Family)	<i>Lycopersicon pimpinellifolium</i>	currant tomato	Exotic, edible
SOLANACEAE (Tomato Family)	<i>Solanum americanum</i>	glossy nightshade, <i>popolo</i>	Indigenous, used medicinally for the digestive tract and sore throats, pot herb?
STERCULIACEAE (Cacao Family)	<i>Waltheria indica</i>	<i>`uhaloa, hi`aloha</i>	Indigenous, used medicinally as a pain killer especially for sore throat
AGAVACEAE (Agave Family)	<i>Cordyline fruticosa</i>	<i>ti, ki`i</i> (Syn: <i>Cordyline terminalis</i>)	thatch, food wrappers, hula skirts, food alcoholic beverage
ALOECEAE (Aloe Family)	<i>Aloevera</i>	<i>Panini`awa`awa, Star cactus</i>	Exotic, used medicinally for burns and skin
ARECACEAE (Palm Family)	<i>Cocos nucifera</i>	<i>Niu, lolani</i> , coconut, <i>niu hiwa, niu lelo</i>	Polynesian introduction, used ceremonially, medicinally, for food, drink, oil wood, thatch, etc.
POACEAE (Grass Family)	<i>Panicum maximum</i>	Guinea grass	Exotic, cultivated as an important forage grass

A few Polynesian introduced plants have been added to the existing park area at Koko Drive and Claudine Street as landscaping, including *kou*, *kukui*, *milo*, *niu* and *ti*. *`A`ali`i* has been

planted as a native ornamental near the *mauka* portion of the project area. The Polynesian introduced *noni* was observed as a volunteer. A couple of exotic species including plumeria, and *pikake* which may have traditional Hawaiian uses have also been used within the landscaping. Most of the wild species with any potential for gathering, including *klu*, *koa haole*, *kiawe*, white mulberry, currant tomato, aloevera and Guinea grass, may be characterized as exotic weedy species. The only indigenous plants present known to have been gathered are *'ilima*, *popolo* and *'uhaloa*. The plants with gathering potential were either planted as part of the landscaping or are absolutely ubiquitous in similar dry scrubby environments. No unique opportunities for gathering are believed to be present. No site-specific gathering was evident. No **gathering practices** are believed to exist within the project area.

While wild pigs are reported in "sparse" densities in the southeastern Ko'olau Mountains (van Ripper and van Ripper III 1982:25) they are typically understood to prefer wetter environments at higher elevations. No evidence of wild pigs was observed within the project area. No wild pigs or other animals traditionally **hunted** by Hawaiians are believed to be present and no hunting is allowed in Mau'umae Nature Park.

Background research (Thrum 1906/1908, McAllister 1932) indicated two *heiau* within Pālolo, Mauoki and Maumae. The studies also indicate that by 1932 no remains of either *heiau* were present. Mauoki Heiau is understood to have been close to the petroglyphs at Pālolo Stream, near the present day St. Louis High School and Chaminade University. Maumae (Mau'umae) Heiau has not been relocated, even by McAllister, and was probably destroyed prior to 1929/30. The accounts that are available (Thrum 1908, Sterling and Summers 1978, Fornander 1919) suggest that the *heiau* was on a ridge or hill with a view south to Maunaloa. Neither of the above mentioned *heiau* are understood to have been in or near the present project area.

Mau'umae specifically refers to the ridge line descending from the eastern side of Pālolo Valley. The ridge meets Kaimuki Crater at Wai'alae Avenue, where there is a natural saddle. In John Papa 'Ūi's account of trails on O'ahu, he refers to a *mauka* trail from the Honolulu area that approximates present-day King Street, and Wai'alae Avenue meeting the 'other trails at the sand', near where Wai'alae Stream enters the ocean. Along the *mauka* trail Mau'umae is mentioned as 'above Kaimuki' where a pole later stood to serve as a mark for ships.' The trail referred to by 'Ūi would not have passed through the project area, rather it would have been close to present-day Wai'alae Avenue.

A trail to the Ko'olau Summit off of Sierra Drive is referred to as Mau'umae, or Lanipō Trail (Ball 2000:26). The trail gets its 'Mau'umae name because it follows the crest of Mau'umae Ridge to the summit.

Public access and transit will not be affected by the present undertaking. Access to the Mau'umae Nature Park trail *mauka* of the present-day study (*i.e.* *mauka* of Koko Drive) will not be affected.

No storied places (*wahi pana*) are known within the project area other than the qualities adhering to Pālolo in general.

K. Land Use Controls

Land use controls for Mau'umae Nature Park are listed below.

State Land Use:	Urban
General Plan:	Primary Urban Center
Development Plan:	Primary Urban Center
Land Use Map:	<i>Parks and Recreation</i> Preservation
Public Facilities:	No Symbol
Zoning:	P-2 General Preservation

Zoning is the controlling tool for park development (See Figure 5). Park use is a permitted use under the general preservation designation. Development standards for the general preservation district applicable to Mau'umae Nature Park include a minimum lot size of 5 acres, building areas cannot exceed 5% of the lot area, structures (the proposed comfort station) should not exceed 25 feet in height, and required yards are front yard, 30 feet, and side and rear yards, 15 feet.

The area to be developed is less than the required minimum lot size and a waiver to this requirement will be sought from the Department of Planning and Permitting.

L. Public Facilities

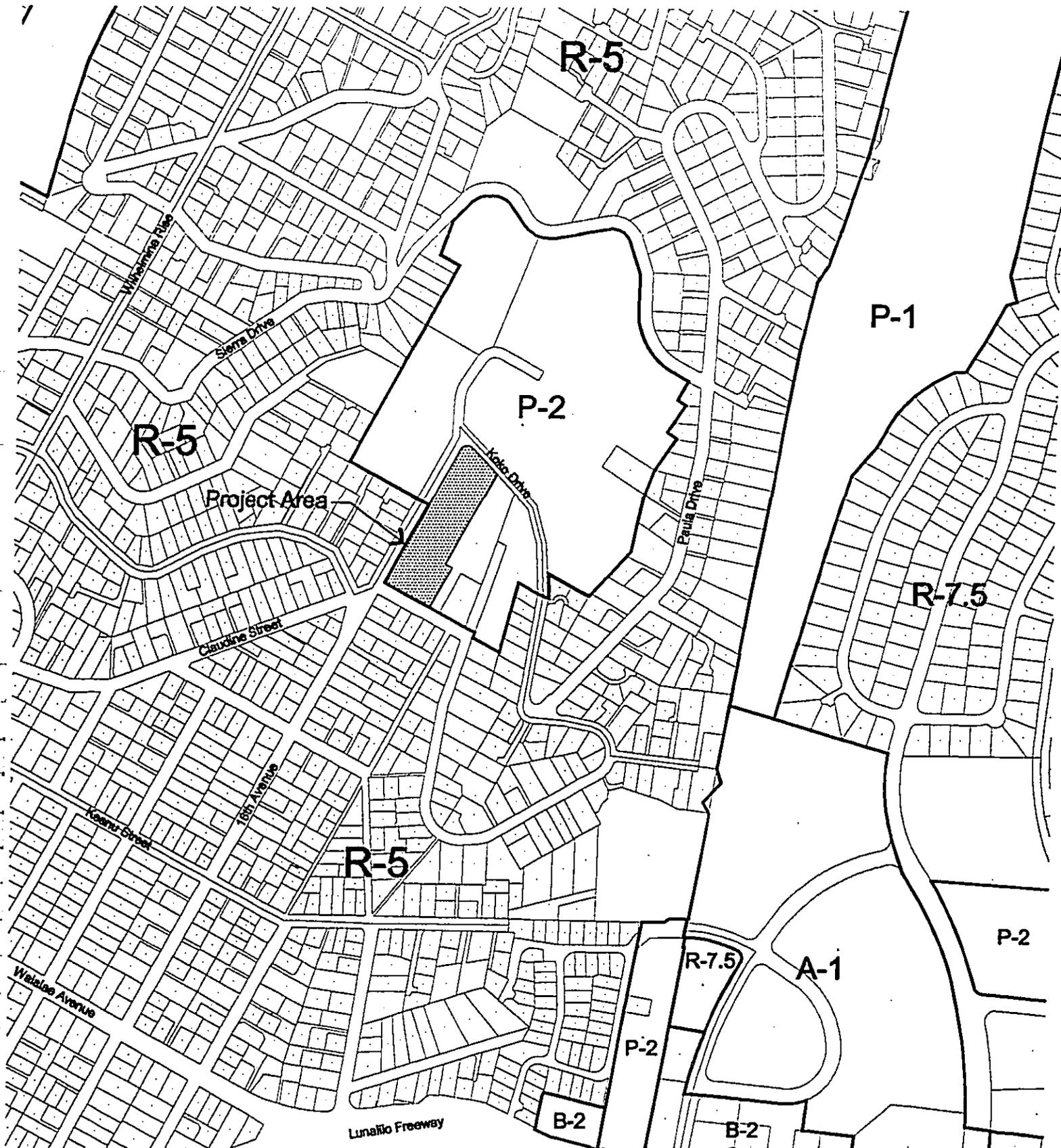
Claudine Street, a City street, borders the park on the south. The two-way road lies within a 44-foot right-of-way with curbs and sidewalks on both sides. The road is fairly level but rises in grade beginning about mid-block fronting the driveway to the BWS water tunnel to Koko Drive. *On-street* parking is permitted on the makai side of the road. Parked cars choke the travel lanes but two vehicles can still negotiate the narrowed roadway.

16th Avenue like Claudine Street is a two-lane, two-way road within a 44-foot right-of-way. Along the park side of the road, there are no curbs or gutters. A raised, continuous, asphalt concrete walkway extends from Claudine Street to Koko Drive. The other side of the road lacks gutters but cut-stone curbing and intermittent pavements for pedestrians marks the edge of pavement. The posted speed limit is 25 miles per hour (MPH). Bus stops are located along 16th Avenue.

At the northern corner of the park, 16th Avenue makes a sharp turn and merges with Koko Drive. The road (Koko Drive) narrows to a 40-foot right-of-way along the northern perimeter of the park. Koko Drive loops around the park and through Maunalani Heights, eventually connecting to Claudine Street.

Water is available from an existing 6" Board of Water Supply main in 16th Avenue and Koko Drive (mauka section) or an 8" main in Claudine Street. A 2-inch water meter currently serves the park. The water meter is connected to the 8-inch water main located within the Claudine Street right-of-way.

A **10-inch sewer** is located within 16th Avenue. The sewer begins near 1536 16th Avenue and flows south along 16th Avenue. There are no current moratoriums on sewer connections in the area.



Legend

B-2	COMMUNITY BUSINESS
R-5	RESIDENTIAL (5,000 SF. LOT MINIMUM)
R-7.5	RESIDENTIAL (7,500 SF. LOT MINIMUM)
A-1	APARTMENT
P-1	PRESERVATION (RESTRICTED)
P-2	PRESERVATION (GENERAL)

Source: City & County of Honolulu, GIS Website

Figure 5
Zoning Map
Mau'umae Nature Park

City & County of Honolulu
 NORTH
 LINEAL SCALE (FEET)
 250 125 0 125 250 500
 Kaimuki, Island of Oahu
 Gerald Park
 Urban Planner
 August 2002

The 0.9 acre park bordered by Claudine Street and 16th Avenue consists of a large relatively flat lawn area. **Runoff** generated in the lawn area surface drains toward Claudine Street and enters the City storm drainage system via drain inlets located in the street.

The northern or undeveloped portion of the park is bisected by an existing earth and rock drainage ditch. The drainage ditch begins approximately 120-feet north of the existing Board of Water Supply Waialae Shaft Water Tunnel and travels west across the Board of Water Supply parcel (TMK 3-3-14:16) and the park site until emptying into an existing 2.2-foot x 1.6-foot box drain that connects to an existing 36-inch diameter drain located in 16th Avenue.

The existing drainage ditch is adequately sized to accommodate a 10-year storm event that will generate a total of approximately 9 cfs of runoff. Approximately 7 cfs of runoff is generated offsite and approximately 2 cfs is generated onsite. Off-site drainage enters the site through curb cuts located along Koko Drive (near the existing lookout area). The remainder of runoff generated on-site sheet flows south over the property until entering the City storm drainage collection system via drain inlets located on Claudine Street.

The only drainage structure visible within the park is an existing headwall for the 2.2-foot x 1.6-foot box drain that crosses 16th Avenue. The headwall and box drain were constructed in the 1940s along with other drainage improvements within Claudine Street. Drainage improvements within 16th Avenue were constructed in the late 1920s.

Electrical and telephone service in the neighborhood is provided by overhead lines within the right-of-way of Claudine Street and 16th Avenue. Currently there is no electrical or telephone service to the park site.

SUMMARY OF POTENTIAL ENVIRONMENTAL IMPACTS AND MEASURES TO MITIGATE ADVERSE EFFECTS

The scope of the project was discussed with the consulting landscape architect, members of the design team, and staff of the Department of Design and Construction and Department of Parks and Recreation. State and County agencies were contacted for information relative to their areas of expertise. Information meetings were held in the neighborhood to elicit resident concerns and ideas for the master plan. Time was spent in the field noting site conditions and conditions in the vicinity of the park. The sum total of our consultations and field investigations helped to identify existing conditions and features that could affect or be affected by the project. These conditions include:

- There are no rare, threatened, or endangered flora or fauna on the property;
- There are no historical features on the property;
- There is no historical documentation of the property being used for cultural practices;
- The park is not located in a flood hazard area;
- A 0.9 acre portion of Mau'umae Nature Park is an existing park with minimal recreation facilities and amenities; and
- Existing water, wastewater, and utility systems are adequate to serve the proposed improvements.

Improvements to Mau'umae Nature Park are planned in three phases. Because of this phasing, the short-term impacts described below generally would be repeated during each of the construction phases. In evaluating the planned facilities and potential environmental impacts, improvements such as the walkway and installation of the children's play apparatus are low-intensity improvements that can be built without significant environmental impacts.

The major improvements—the off-street parking area and comfort station—also can be built relatively easy but it is anticipated to require more site work and take longer to construct than the other facilities. The parking lot is estimated to take 2 to 3 months to construct and the comfort station about 6 months.

A section of the park may be used as a temporary construction base yard. The yard is needed to accommodate a field office, construction vehicles and equipment, building materials, and stockpiled material. Ideally, the base yard should be readily accessible to vehicles delivering construction materials and to building sites. Selection of a base yard site will be left to the Contractor and the Department of Design and Construction. The size of the yard will vary depending on the needs of the Contractor.

Because construction will be phased over a long period of time, some construction work could interfere with recreational use of facilities already in place. If this occurs, the Contractor will erect safety barriers around work sites to minimize conflicts with recreational activities and to ensure the safety of people using the park.

Mitigating measures in the form of public health regulations and construction techniques are anticipated to change over time. It is expected that such changes would promote rather than degrade overall public health and safety and will be incorporated into future construction plans prepared for Mau'umae Nature Park.

A. Short-term Impacts

Site work will probably be the most disruptive construction activity on the environment. Grubbing, grading, trenching, and stockpiling activities all are prerequisites for building the temporary and permanent improvements to follow.

Site work is a persistent source of **fugitive dust**. Site contractors are aware that dust is a nuisance to both workers and people living near work sites and it is imperative for them to maintain stringent dust controls. Water sprinkling is probably the most effective dust control measure given the size of the building site and the scale of proposed improvements. The Contractor, however, may choose to implement other measures based on their experience with projects of similar scale and job sites.

The Contractor will be responsible for general **housekeeping** of the site and for keeping adjacent streets and properties free of dirt, mud, and construction litter and debris. Pollution control measures shall comply with Chapter 60.1, Air Pollution Control regulations of the State Department of Health.

Construction noise, like fugitive dust, cannot be avoided. Occupied residential properties are located opposite the park site on three sides. Construction noise will be audible at these locations but exposure is expected to vary in volume, frequency, and duration. Noise will vary also by construction phase, the duration of each phase, and the type of equipment used during the different phases. For this project, noise may be most pronounced during the early stages when the various building sites are grubbed and excavated.

Community Noise Control regulations establish a maximum permissible sound level for construction activities occurring within various zoning districts. Land zoned residential and public space (interpreted to be a public park) is placed in the Class A zoning district and the maximum permissible sound level is 55 dBA between the hours of 7:00 am and 10:00 pm (Chapter 46, Community Noise Control, 1996). Construction activities often produce noise in excess of the permissible daytime noise level and a noise permit will be needed. The Contractor will be responsible for obtaining the permit and complying with conditions attached to the permit. Work will be scheduled for normal working hours (7:00 AM to 3:30 PM) Monday through Friday.

Site work will expose soil thus creating opportunities for **runoff and erosion**. All earthwork will be done in accordance with erosion control regulations of the City and County of Honolulu and approved grading plans. Best Management Practices (BMPs) for erosion and drainage control during construction will be prepared for review and approval by the Department of Planning and Permitting. Erecting dust barriers or silt fences around work sites is a common construction technique and other measures may be employed as needed.

No **archaeological features** are known to exist on the ground surface. Should subsurface archaeological or cultural features or burials be unearthed, work in the immediate area will cease and the State Historic Preservation Division notified immediately for proper disposition of the finds.

Sections of the existing grassed area at Mau'umae Nature Park will be grubbed and graded to accommodate the meandering sidewalks and for siting a play apparatus. Unimproved areas will be cleared of weeds and rocks to accommodate the parking area, comfort station, play apparatus, and a nature trail. Construction work is not anticipated to have adverse

effects on existing **vegetation**. The identified species are all common to the State of Hawaii. None of the plants observed on the park site are considered or are candidates for rare, threatened, or endangered status.

Construction notices will be posted to alert residents and motorists of **construction in roads**. Flagmen will be posted to marshal vehicles around excavations in the roadway. One traffic lane will be kept open at all times to minimize inconveniences to motorists. Areas affected by trenching will be restored to pre-construction conditions or better. Open trenches will be covered with steel plates at the end of each working day and safety devices with warning lights posted during night hours.

Construction vehicles hauling men and material will contribute to **traffic** on 16th Avenue. Material deliveries will be scheduled during non-peak traffic hours to minimize impacts on local traffic. Flagmen will be posted for traffic control during material loading and off-loading.

B. Long-term Impacts

A significant long-term benefit would be to have a **park with recreation amenities** for a neighborhood that has actively sought to have a park built for almost 8 years. Having a place to recreate and facilities to foster recreation as a learning activity is one of the principal reasons for having parks.

The proposed improvements would not displace any **recreation activity** now occurring on the premises. The addition of meandering walkways would provide a safe place for children to ride their bikes and tricycles and the play structure would provide a **recreation feature**. The short **hiking trail** may encourage people to explore the hillside vegetation and landform.

The 20-stall parking lot may not be able to accommodate all park users sometimes. If off-street **parking** were not available, motorists would have to park on nearby streets. While on-street parking may be convenient for park users, it can create problems for homeowners fronting the street. Carelessly parked vehicles can partially block driveways thus hampering egress/ingress into/from house driveways, make viewing of through traffic difficult, and can create other traffic and pedestrian hazards.

If carelessly parked vehicles create a public safety problem in the vicinity of Mau'umae Nature Park, the City and County of Honolulu can institute peak period on-street parking restrictions or increase the ticketing of illegally parked vehicles. Such measures should be considered only after consultation between the Department of Transportation Services, Department of Parks and Recreation, Honolulu Police Department, and neighboring residents (Response to Department of Transportation Services Comment).

Noise would be audible within the park and in areas outside of the park at times when children and adults are playing. This impact cannot be avoided. The sounds of laughter, yelling, and talking may be audible in residential areas immediately adjoining the park but should be well below prescribed threshold levels required by noise regulations.

An increase in **surface runoff** is anticipated because of the impervious surface associated with the parking lot and the decrease in grassy area where the parking lot would be built. As

stated in the project description, no drainage structures or drain lines are proposed to drain the park. Runoff will flow overland towards the open field and retained on site.

Mau'umae Nature Park is located in an older suburban neighborhood of Honolulu. Land surrounding the park has been developed for low-density residential uses. It is one of two public parks located in the Kaimuki Neighborhood Board area mauka of Waialae Avenue (the other park is Maunalani Community Park). Although 33 acres in size, the Master Plan proposes modest improvement on four acres on parkland below Koko Drive. The remaining 29+ acres are to be retained "as is". Given the rough terrain that comprises most of the four acres, the proposed improvements are confined to an existing 1.0 acre lawn area adjoining Claudine Street and a slightly sloping area mauka of the lawn. A small parking area, comfort station, and short hiking trail are proposed for the slightly sloping area.

The plan to improve a portion of Mau'umae Nature Park is consistent with the Development Plan provision to provide adequate amounts of recreational facilities and public parks for active and passive recreation. The area to be improved is smaller in size than a community park thus the Master Plan proposes to retain the passive recreation qualities of the existing park. Improvements will provide a new lawn area for unstructured recreation opportunities, a small play structure for children, a pathway system for walking and biking, a hiking trail, and benches for sitting and resting. For the more active hiker, there is a loop trail on the portion of the park above Koko Drive.

No improvements are proposed that would detract from views of the natural environment and views of the Koolau Mountains and nearby ridges and valleys from public places. It is anticipated that the areas around the comfort station and parking lot would be landscaped to help obscure the facilities from public view yet enable routine surveillance from passing police patrol cars (Response to Department of Planning and Permitting Comment).

The most pronounced visual effect would be to have a park replace undeveloped land overgrown by vegetation with grass, pavement and structures. The proposed improvements will not significantly obstruct views of the sloping terrain. A comfort station is the only structure proposed. The facility will be set back from 16th Avenue and would be visible from the road and from several residential dwellings on the south. The many existing trees should restrict views of the structure from areas to the north and east. The design of the comfort station will consider its location with respect to the surrounding landscape (Response to Department of Planning and Permitting Comment).

No traditional and cultural practices associated with archaeological sites, burial sites, fishing, gathering, hunting, sacred sites, trails and access, and wahi pana (storied places) were identified within the project area (Cultural Surveys Hawaii, 2002). On the basis of a historical and archaeological data, the cultural assessment concluded that there would be no adverse impacts. The entire project area was extensively altered in the past for a roadway, a water supply shaft, and park facilities. No traditional cultural practices have been identified within the project area and none are believed to be on-going that are in any way site specific.

Operating hours have not been established. It can be presumed that the park would be open for public use at times similar to that of other parks operated and maintained by the Department of Parks and Recreation, City and County of Honolulu.

Electrical and telephone service is available for connection to future park facilities. There are **no plans to light the park** for night use; however, security lighting may be provided at the comfort station and parking lot.

Officers of the Honolulu Police Department would have the primary responsibility of routinely **patrolling** the neighborhood and removing violators of park rules and city ordinances.

A. No Action

A no action alternative would maintain the status quo of the park site thus precluding the occurrence of all environmental impacts, short and long-term and beneficial and adverse described in this Assessment. Human and financial resources committed to prepare a master plan and to build a community-based facility would be foregone and the stated objectives of the project unachieved.

B. Alternative Uses

Several areas were examined for locating a Zen Archery *kyudojo*. The archery range to include a shooting house (*shajo*) and target house (*matoba*) would require at minimum a 150' X 75' area exclusive of space for accessory facilities such as parking. A location on the Koko Head side of the BWS water shaft was initially chosen. The BWS property was relatively level and physically removed from other public areas in the park. It also appeared that the well site had been abandoned since pumping operations ceased in 1984. This location, however, was later found to conflict with BWS plans to reactivate this water source by installing a production well on the premises. The BWS has already drilled a test well and will begin construction soon.

Other areas in the park were evaluated but either lacked a safety buffer area or were on steeply sloped undeveloped lands impractical for construction.

For these reasons, a Zen Archery *kyudojo* is not proposed at Mau'umae Nature Park (See attached Correspondence).

Permits required for the project and responsible authorities are identified below. Additional permits and approvals may be required depending on final construction plans.

<u>AUTHORITY</u>	<u>PERMIT/APPROVAL</u>
City and County of Honolulu Board of Water Supply Department of Planning and Permitting Department of Planning and Permitting	Water Facility Grubbing, Grading, and Stockpiling Permit Building Permit for Building, Electrical, Plumbing Sidewalk/Driveway and Demolition Work Permit to Excavate Public Right-of-Way Sewer Connection
Department of Planning and Permitting Department of Planning and Permitting	
State of Hawaii Department of Health Commission on Persons with Disabilities	Variance From Pollution Controls

*The Draft Environmental Assessment for the Mau'umae Nature Park Master Plan was published in the Office of Environmental Quality Control Environmental Notice of December 8, 2002 and December 23, 2002. Publication initiated a 30-day public review period ending on January 7, 2003. The Draft Environmental Assessment was mailed to agencies and organizations below. An asterisk * identifies agencies and organizations that submitted written comments during the review period. All comment letters and responses are found in Appendix A.*

City and County of Honolulu

- *Board of Water Supply
- *Department of Parks and Recreation
- *Department of Planning and Permitting
- *Department of Transportation Services
- *Police Department
- *Fire Department

State of Hawaii

- *Department of Health
- *Office of Environmental Quality Control
- Department of Land and Natural Resources
- *Historic Preservation Division

Others

- Hawaii Kyudo-Kai
- *Hawaiian Electric Company, Inc.
- Kaimuki Neighborhood Board No. [27] 4
- Mau'umae Nature Park Advisory Committee
- Kaimuki Public Library (Placement)

Chapter 200 (Environmental Impact Statement Rules) of Title 11, Administrative Rules of the State Department of Health, establishes criteria for determining whether an action may have significant effects on the environment (§11-200-12). The relationship of the proposed project to these criteria is discussed below.

- 1) Involves an irrevocable commitment to loss or destruction of any natural or cultural resource;**

Natural or cultural resources will not be lost as a result of this project

- 2) Curtails the range of beneficial uses of the environment;**

The project does not curtail the beneficial uses of the environment. The project will improve and expand upon existing beneficial public recreational uses.

- 3) Conflicts with the state's long-term environmental policies or goals and guidelines as expressed in chapter 344, Hawaii Revised Statutes, and any revisions thereof and amendments thereto, court decisions or executive orders;**

The project does not conflict with long-term environmental policies, goals, and guidelines of the State of Hawaii.

- 4) Substantially affects the economic or social welfare of the community or State;**

The project will not substantially affect the economic or social welfare of the community or State.

- 5) Substantially affects public health;**

Public health will not be adversely affected during construction. Short-term environmental impacts in the form of fugitive dust, noise from construction equipment, and minor erosion can be expected. These impacts can and will be mitigated by measures described in this Assessment and measures, such as Best Management Practices for erosion control, to be submitted with construction plans and documents.

- 6) Involves substantial secondary impacts, such as population changes or effects on public facilities;**

Substantial secondary impacts are not anticipated.

- 7) Involves a substantial degradation of environmental quality;**

The proposed improvements are anticipated to increase public use and improve the physical condition of the site.

8) Is individually limited but cumulatively has considerable effect upon the environment or involves a commitment for larger actions;

The proposed project will not result in significant adverse short and long-term environmental impacts or involve a commitment to a larger action.

9) Substantially affects a rare, threatened or endangered species, or its habitat;

Rare, threatened or endangered species or habitats are not found on the premises.

10) Detrimentally affects air or water quality or ambient noise levels;

Ambient air quality will be temporarily affected by fugitive dust and combustion emissions during construction but can be controlled by measures stipulated in this Assessment. Construction noise may be pronounced during site preparation work but should diminish as improvements are completed. All construction activities will comply with air quality and noise pollution regulations of the State Department of Health.

Erosion control measures will be prescribed in grading plans and best management practices prepared for the project.

11) Affects or is likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters.

The proposed improvements are not located in an environmentally sensitive area.

12) Substantially affects scenic vistas and view planes identified in county or state plans or studies, or,

The proposed improvements will not affect scenic vistas or view planes.

13) Requires substantial energy consumption.

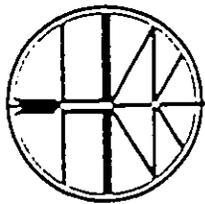
Electrical power may be required for security lighting of the parking lot and comfort station.

REFERENCES

- Cultural Surveys Hawaii. 2002. *Archaeological Inventory Survey and Cultural Assessment of a 3.97-Acre Portion of the Proposed Mau'umae Nature Park, Wilhemina Rise, Mau'umae Ili, Palolo Ahupua'a, Kona District, Oahu.*
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- Federal Emergency Management Agency. 2000. *Flood Insurance Rate Map, City and County of Honolulu.* Community Panel No. 15003 C0370E.
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- U.S. Department of Agriculture, Soil Conservation Service. 1972. *Soil Survey of Islands of Kauai, Oahu, Maui, Molokai, and Lanai.* In Cooperation with The University of Hawaii Agricultural Experiment Station. U.S. Government Printing Office, Washington D.C.

CORRESPONDENCE

1. Hawaii Kyudo-kai
2. Department of Design and Construction



HAWAII KYUDO-KAI

1708 Nuuanu Avenue • Honolulu, Hawaii 96817

August 12, 2002

02 AUG 13 14 28:45

Honorable Mayor Jeremy Harris
Honolulu Hale 530 S. King St.
Honolulu, HI 96813

Subject: Mau'umae Zen Archery

Your Honor:

On August 7, 2002 the Kaimuki Neighborhood Board voted not to include the Zen Archery Range into Mau'umae Nature Park Master Plan. The City's Consultant, Dana Ann Yee sited safety and security as the main factor as to not to include it into the park's Master Plan. We have given Dana a list of safety considerations in the design of the Kyudojo. They are listed below:

1. While shooting, we propose to drape a curtain of Kevlar or Spectra along a perimeter that is parallel to the yamichi (arrow pathway) and attached to the back of the matoba (target house). The material, height, layout, color and hardware to attach the curtain will need to be discussed in the design phase.
2. Most of the time a narrow curtain called an azuchi-maku is hung on the eaves of the matoba. It is more than just to decorate the matoba; it keeps stray arrows from striking the hardback wall of the matoba.
3. A red caution light positioned on the matoba to signify that arrows are being retrieved and not to shoot arrows. Switches will be located in both the shajo (shooting house) and matoba.
4. A score keeper/range master will be responsible to begin shooting and to end shooting to retrieve arrows.
5. Optional is a low wall or low fence along the yamichi connecting the shajo and matoba. This low wall or low fence should not affect the character of the shajo and matoba.

The consultant and neighborhood board feels that the items listed above wouldn't make for a safe kyudojo. We hope the City is still committed to this project and consider the above-mentioned safety considerations would make for a safe kyudojo.

I have been in communication with The Institute of Zen Studies. They are in the process of creating a Kyudo School for their training program. The Institute of Zen Studies are

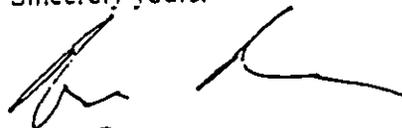
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interested in using both the existing Japanese Archery Range at Kapi'olani Park and the proposed Kyudojo at Mau'umae Nature Park. Also, I have been approached by other Budo Schools (classical Japanese martial arts) who have an interest in using the kyudojo at Mau'umae Nature Park. A kyudojo is designed for Kyudo, however the Kyudo community would like to invite the other Budo Schools like Iaido (sword drawing), Tameshigiri (sword cutting), Naginata (study of a sword/spear like weapon), Shodo (calligraphy) and Ikebana (flower arrangement) to name a few, to use it as their dojo (place of practice). We can put together a schedule that can satisfy and accommodate both the Kyudo Schools and other Budo Schools.

For those of us who practice the more classical Japanese martial arts, we feel that we have an obligation to preserve it here in Hawaii. Hawaii has a longer history of Budo than the U.S. mainland and Europe. Some of the first Budo Schools outside of Japan were established here in Hawaii. However, today, it's more popular there than here. With this kyudojo at Mau'umae Nature Park in Kaimuki, we can re-introduce and promote these classical Japanese martial arts to the community. We hope that the City understands how important this facility would be for us who want to preserve cultural ways and engage in activities that are beneficial to society. Once this kyudojo is constructed and the programs are available, then, maybe some of these classical Japanese martial art will become popular again.

In closing I'd like to share a quote in Japanese. "Yu wa yasuku, okonai wa muzukashii. Okonai wa yasuku, satoru koto muzukashii" - "Talk is easy, action is difficult. But, action is easy, true understanding is difficult!" Thank you for all your support and help.

Sincerely yours,



Albert Batara
Secretary, Hawaii Kyudo Kai
Member of TAC (The Archery Coalition)

Cc:
D. Bainum, C. Council
J. Yoshimura, C. Council
G. Okino, C. Council
W. Balfour, DPR
M. Tom, C&C Hono.
E. Crispin, DDC
L. Pam, KHB No.4
V. Ohumukini, TAC

DEPARTMENT OF DESIGN AND CONSTRUCTION
CITY AND COUNTY OF HONOLULU

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JEREMY HARRIS
MAYOR



RAE M. LOUI, P. E.
DIRECTOR

ERIC G. CRISPIN, AIA
DEPUTY DIRECTOR

GEORGE T. TAMASHIRO, P. E.
ASSISTANT DIRECTOR

September 25, 2002

Mr. Albert Batara
Hawaii Kyudo-Kai
1708 Nuuanu Avenue
Honolulu, Hawaii 96817

Dear Mr. Batara:

Thank you for your informative letter of August 12, 2002 regarding the proposed Zen archery range that the City has considered siting in Mauumae Nature Park. We appreciate your relating information about how Zen archery is practiced and about other related Japanese cultural groups.

As pointed out at the neighborhood board meeting, the community's safety and security concerns related more to usage of the proposed facility by members of the general public rather than by the Hawaii Kyudo-Kai members themselves. Members of your group are, undoubtedly, very well trained and disciplined. However, any facility built with City taxpayers' funds or on City-owned property must be open to the public. City resources cannot be used to support facilities used by an exclusive group of people alone. Since other archers of considerably less experience and training will use such a facility, the provision of an ample buffer area is deemed essential.

The consensus of community members and the director of the Department of Parks and Recreation (DPR) was that there be a safety buffer area between the proposed archery range and areas of the park used by the public and the surrounding residential neighborhood.

While first formulating the park master plan, one of the assumptions we held was that the Board of Water Supply's (BWS) well site had been abandoned and the land might be reused for recreational purposes. We thought that this would be a nearly ideal site for archery range because it was relatively level and physically removed from other, more public areas in the park. Unfortunately, our assumption turned out to be untrue. We discovered belatedly that the BWS is planning to redevelop the well site, which they own and have legal jurisdiction over. The BWS has already prepared construction plans for improvements on the property and will begin construction soon.

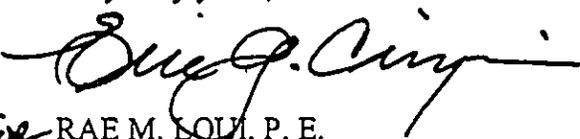
Mr. Albert Batara
Page 2
September 25, 2002

When we learned of the BWS's plans, Dana Anne Yee and her engineering subconsultants determinedly looked for other practical sites within Mauumae Nature Park in which to site a Zen archery range. However, the only other available sites for your activity in the park were rejected because they either lacked a safety buffer area or were on very steeply sloped, undeveloped lands and impractical for construction of such facilities. After the presentation by Ms. Yee, the Kaimuki Neighborhood Board at its last meeting unanimously voted not to include the Zen archery range in the master plan for Mauumae Nature Park.

In consultation with the DPR, we will reassess the siting of the proposed Zen archery range at other possible parks.

Please contact Mr. Terry Hildebrand of our Facilities Division at 523-4696, if you have any questions.

Very truly yours,


For RAE M. LOU, P. E.
Director

RML:ei

cc: Mayor Jeremy Harris
Councilmember Duke Bainum
Councilmember Jon Yoshimura
Councilmember Gary Okino
William D. Balfour, Jr., Director, DPR
Malcolm Tom, Deputy Managing Director
Eric Crispin, Deputy Director, DDC
Vernon Tam, Chair, Kaimuki Neighborhood Board No. 4
V. Ohumukini, The Archery Coalition
✓ Dana Anne Yee, Landscape Architect
Toni Robinson, District I Manager, DPR

BOARD OF WATER SUPPLY

CITY AND COUNTY OF HONOLULU
630 SOUTH BERETANIA STREET
HONOLULU, HI 96843



December 17, 2002

JEREMY HARVEY, Mayor
EDDIE FLORES, JR., Chairman
CHARLES A. STELL, Vice Chairman
JAY HALL, Member
HERBERT B. K. MAOUIA, III
DAROLYN H. LENO

CLIFFORD S. JAMBLE
Manager and Chief Engineer
DOHNA PAVUK, ROTONGAO
Deputy Manager and Chief Engineer

Mr. Gerald Park
Gerald Park Urban Planner
1400 Rycroft Street, Suite 876
Honolulu, Hawaii 96814-3021

Dear Mr. Park:

Subject: Your Letter of November 25, 2002 on the Environmental Assessment for the Mau'umae Nature Park. ITMK-3-3-14: 15, 17

Thank you for the opportunity to review the draft environmental assessment for the Mau'umae Nature Park.

The existing water system is presently adequate to accommodate the proposed park improvements.

The availability of water will be confirmed when the building permit is approved. When water is made available, the applicant will be required to pay our Water System Facilities Charges for resource development, transmission and daily storage.

The proposed project is subject to Board of Water Supply Cross-Connection Control and Backflow Prevention requirements prior to the issuance of the Building Permit.

If you have any questions, please contact Joseph Kaakua at 527-6123.

Very truly yours,

CLIFFORD S. JAMBLE
Manager and Chief Engineer

**FIRE DEPARTMENT
CITY AND COUNTY OF HONOLULU**
3378 KOA'ALE STREET, SUITE 4428 • HONOLULU, HAWAII 96819-1849
TELEPHONE (808) 831-7781 • FAX: (808) 831-7750 • INTERNET: www.honolulu.gov



ATTILIO K. LEONARDI
FIRE CHIEF
JOHN CLARK
DEPUTY FIRE CHIEF



December 18, 2002

Mr. Gerald Park
Gerald Park Urban Planner
1400 Rycroft Street, Suite 876
Honolulu, Hawaii 96814-3021

Dear Mr. Park:

Subject: Mau'umae Nature Park Master Plan
Palolo, District of Honolulu, Oahu
Tax Map Key: 3-3-014: 015, 017

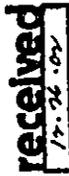
We received your letter dated November 25, 2002, requesting our comments on the Draft Environmental Assessment for the above-mentioned project. The project will not have an adverse impact on the services provided by the Honolulu Fire Department.

Should you have any questions, please call Acting Battalion Chief Ricky Muramoto of our Fire Prevention Bureau at 831-7778.

Sincerely,

ATTILIO K. LEONARDI
Fire Chief

AKL/SK:jl



DEPARTMENT OF PLANNING AND PERMITTING
CITY AND COUNTY OF HONOLULU

850 SOUTH KING STREET • HONOLULU, HAWAII 96813
TELEPHONE: (808) 533-4416 • FAX: (808) 537-8743 • INTERNET: WWW.HONOLULU.HI



JEREMY HARRIS
MAYOR

Gerald Park, Urban Planner
December 24, 2002
Page 2

ERIC G. CLUTKIN, AIA
PLANNING DIRECTOR

LORETTA K.C. CHIEE
SAFETY DIRECTOR

2002/ELOG-3459 (RS)

December 24, 2002



Mr. Gerald Park
Urban Planner
1400 Rycroft Street, Suite 876
Honolulu, Hawaii 96814-3021

Dear Mr. Park:

Draft Environmental Assessment Report for the
Mau'umae Nature Park Master Plan
TMK: 3-3-014: 015 and 017 in Palolo, Oahu, Hawaii

Thank for you for the opportunity to review the Mau'umae Nature Park Master Plan
October 2002 Draft Environmental Assessment, which you are preparing for the Department of
Design and Construction.

We offer the following comments for your review and consideration for the Final EA
report:

1. Pages 1 (Section 1.B), 6 (Figure 3), 7 (Section 2.A) and 19 (Section 3.B): The
DEA states that the proposed improvements would not displace any existing
recreational activity (page 19). However, Section 2.A on page 7 states that
"children and youth groups use the grass field for organized recreation (practice
purposes) and open space play." The FEA should be more specific in discussing
the open area (include dimensions and square footage), which will be created by
the walkway (page 1) and the long-term impacts on the current recreational
activities. Will the open lawn area created by the new walkway accommodate the
children and youth groups currently using the existing lawn area for organized
recreation and open space play?
2. Page 3, Section 1. D. Social Characteristics: The FEA should include the positive
social benefits resulting from the proposed recreational area.
3. Page 6, Figure 3: The two shaded areas in the upper or northern portion of the
park should be identified.

4. Page 7:
 - a. Section A. Existing Use and Structures: Please provide the name of the
"larger 33-acre park extending from Claudine Street up to an unnamed
road across Pu'umalu Place", and Mau'umae Nature Park's location
within and relationship to this larger park. Clarify that Koko Drive bisects
the "larger" park and not the Mau'umae Nature Park.
 - b. Section 2.C. Soils: The last sentence states "Buildings on steep slopes are
susceptible to sliding when the soil is saturated." Will the comfort station
be constructed over such poor soil? The DEA should clearly describe the
soil characteristics at the comfort station and state any probable impacts of
the proposed action on the environment. A geo-technical report may be
required.
5. Page 14:
 - a. Section K. Land Use Controls: The FEA should indicate that the land use
for the project site is designated as Parks and Recreation on the
Development Plan Land Use Map.
 - b. Section 2.L. Public Facilities: The municipal sewer line within 16th
Avenue is a 10-inch sewer line, not 8-inches. This statement shall not be
construed as confirmation of sewage capacity reservation. Sewage
capacity reservation is contingent on submittal and approval of a Site
Development Division Master Application Form (Sewer Connection).
This project may be liable for payment of the Wastewater System Facility
Charge.
6. Page 19, Section 3.B. Long-term Impacts: The discussion of the potential visual
impact of the proposed development should be expanded. For example, what are
the visual impacts of the proposed comfort station on the residential units located
above, to the west and south of the project site? Will the comfort station be
designed to blend in with the surrounding landscape?
7. Page 22, Section 5. Permits and Approvals: The noise permit cited on page 18
should be added (from the State Department of Health, Noise, Radiation, and
Indoor Air Quality Branch).

8. The following plans should be addressed: the City and County of Honolulu's General Plan - Objectives and Policies, as amended 1992, the current Primary Urban Center (PUC) Development Plan Provisions (both common and special), and the proposed Revised PUC DP (call project manager Lowell Chun at 527-6015 for the status of the final public review draft or to obtain a copy).
9. Please note that the proposed project will not require an amendment to the Primary Urban Center Development Plan Public Facilities Map (PUC DPPFM) before City Capital Improvement Program (CIP) funds are budgeted and appropriated. The proposed park modifications are considered a "minor project" according to Section 24-1.2(i)(2) of the DP Common Provisions and Ordinance 93-11 of the Revised Ordinances of Honolulu (ROH).
In addition it will not require a Public Infrastructure Map (PIM) symbol, should the PIM be adopted before construction funds are budgeted.

10. A number of editing comments were noted, please call if you are interested in the list.

Please call Ray Sakai of my Policy Planning Branch staff at 523-4047 if you have any questions.

Sincerely yours,



ERIC G. CRISPIN, AIA
Acting Director of Planning and Permitting

EGC:js

cc: Director, Office of Environmental Quality Control
Terry Hildebrand, Project Coordinator, DDC

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GERALD PARK
Urban Planner

■ Planning
■ Land Use
■ Research
■ Environmental
■ Studies

■ 1400 Kymon Street
Suite 87A
Honolulu, Hawaii
96814-3021

■ Telephone:
(808) 942-7484
■ Facsimile:
(808) 942-7485
■ e-mail:
geraldpark@aol.com

February 26, 2003

Eric G. Crispin, AIA, Director
Department of Planning and Permitting
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Attention: Ray Sakai

Dear Mr. Crispin:

Subject: Mau'umae Nature Park

Thank you for reviewing and commenting on the subject Draft Environmental Assessment. We offer the following responses to your comments in the order presented.

1. Children and youth groups that use the grass field will not be able to use the field during construction. Following construction of the walkway (and regrassing of the field) youth groups will be allowed to use the field.

The square footage of the walkway including a path to 16th Avenue is estimated at 3,580 square feet.

2. A significant long-term benefit would be to have a park with recreation amenities for a neighborhood that has actively sought to have a park built for almost 8 years.

The proposed improvements would not displace any recreation activity now occurring on the premises. The addition of meandering walkways would provide a safe place for children to ride their bikes and tricycles and the play structure would provide a recreation feature. The short hiking trail may encourage people to explore the hillside vegetation and landform.

The parking lot and the comfort station would provide permanent facilities for park users. Currently park users park on the neighboring streets and the only restroom facility is a portable toilet.

3. The two shaded areas are rock outcroppings.

4a. Mau'umae Nature Park comprises the entire 33-acres. Koko Drive bisects the 33 acres creating two parks (one of approximately 29 acres above Koko Drive and a smaller park of about 4 acres below Koko Drive) both of which comprise Mau'umae Nature Park. The Master Plan for Mau'umae Nature Park (and the subject of this environmental assessment) applies to the smaller of the two park areas.

4b. No structures will be constructed on the steep slopes in the northern portion of the park. The proposed comfort station will be constructed makai of the steep slopes where flat land prevails. A geo-technical report may be prepared during the design of the comfort station (Phase III, design date undetermined).

Eric Crispin
February 26, 2003
Page 2

- 5a. Acknowledged.
- 5b. The size of the municipal sewer line within 16th Avenue adjoining the park was provided by the consulting engineers. A follow up check reveals that the size of the municipal sewer line is 10-inches.
6. The discussion of potential visual impacts has been expanded to address your concern about views of the comfort station. The comfort station has not yet been designed but it is anticipated that it will be sited to blend with the surrounding natural and man-made landscape.
7. A Noise Permit is officially titled Variance from Pollution Controls.
8. Mau'umae Nature Park is located in an older suburban neighborhood of Honolulu. Land surrounding the park has been developed for low-density residential uses. It is one of two public parks located in the Kaimuki Neighborhood Board area north of Waialae Avenue (the other park is Maunaloa Community Park). Although 33 acres in size, the Master Plan proposes modest improvement on four acres on parkland below Koko Drive. The remaining 29+ acres are to be retained "as is". Given the rough terrain that comprises most of the four acres, the proposed improvements are confined to an existing 1.0 acre lawn area adjoining Claudine Street and a slightly sloping area north of the lawn. A small parking area, comfort station, and short hiking trail are proposed for the slightly sloping area.
- The plan to improve a portion of Mau'umae Nature Park is consistent with the Development Plan provision to provide adequate amounts of recreational facilities and public parks for active and passive recreation. The area to be improved is smaller in size than a community park thus the Master Plan proposes to retain the passive recreation qualities of the existing park. Improvements will provide a new lawn area for unstructured recreation opportunities, a small play structure for children, a pathway system for walking and biking, a hiking trail, and benches for sitting and resting. For the more active hiker, there is a loop trail on the portion of the park above Koko Drive.

No improvements are proposed that would detract from views of the natural environment and views of the Koolau Mountains and nearby ridges and valleys from public places. It is anticipated that the areas around the comfort station and parking lot would be landscaped to help obscure the facilities from public view yet enable routine surveillance from passing police patrol cars.

9. This information will be forwarded to the Department of Design and Construction.
10. A review of the Department of Planning and Permitting's editorial comments is not necessary.

Eric Crispin
February 26, 2003
Page 3

We thank the Department of Planning and Permitting for participating in the environmental assessment review process.

Sincerely,

GERALD PARK URBAN PLANNER


Gerald Park

c: T. Hildebrand, DDC

CITY AND COUNTY OF HONOLULU

DEPARTMENT OF PARKS AND RECREATION
1000 ULUOAHUA STREET, SUITE 309 • KAPOLOA, HAWAII 96707
TELEPHONE: (808) 935-5341 • FAX: (808) 935-5121 • INTERNET: WWW.DDP.HONOLULU.HI



WILLIAM D. BALFOUR, JR.
DIRECTOR
EDWARD T. 'BUCKY' OASZ
DEPUTY DIRECTOR

received
/ 12 - 27 - 02

December 23, 2002

Mr. Gerald Park
Gerald Park Urban Planner
1400 Ryeroff Street, Suite 876
Honolulu, Hawaii 96814

Dear Mr. Park:

Subject: Maunuae Nature Park Master Plan
TMK: 3-3-014: 015, 017
Palolo, District of Honolulu, Oahu

Thank you for the opportunity to review and comment on the Draft Environmental Assessment on the Maunuae Nature Park Master Plan.

Our comments and recommendations are as follows:

- First, paragraph 2, of page 1, Description of the Proposed Project does not include TMK parcel (3-3-019) and the Nature Park is 33 acres in size, not 3.9 acres.
- Second, paragraph 6 of page 2 should be revised to reflect that TMK parcel 3-3-019 will also remain undeveloped except for a hiking trail.
- Third, revise the project area outlined on the Figure 1 Location Map to reflect the actual size of the Nature Park.

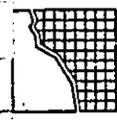
Should you have any questions, please contact Mr. John Reid, Planner, at 692-5454.

Sincerely,

W.D.B. Balfour, Jr.
WILLIAM D. BALFOUR, JR.
Director

WDB:mjk (J. Reid, MS)
(10/19)

cc: Mr. Don Griffin, Department of Design and Construction



GERALD PARK
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Facsimile:
(808) 942-7485
e-mail:
geraldpark@aod.com

February 26, 2003

William D. Balfour Jr., Director
Department of Parks and Recreation
City and County of Honolulu
1000 Uluoahua Street, Suite 309
Kapolei, Hawaii 96707

Dear Mr. Balfour:

Subject: Maunuae Nature Park Master Plan
TMK: 3-3-04: 015, 017
Honolulu, Oahu, Hawaii

Thank you for reviewing the Draft Environmental Assessment prepared for the subject project. We offer the following responses to your comments in the order they were presented.

- 1. TMK 3-3-019 was not included in the contract documents for preparing the Maunuae Nature Park Master Plan. The Nature Park is 33 acres in area; however, the Master Plan was prepared only for the parkland below Koko Drive, which is 3.9 acres.
- The text of paragraph 2 will be revised to indicate that TMK: 3-3-019: 005 although part of the Nature Park is not included in the Master Plan.
- 2. The text of paragraph 6, page 2 will be revised to indicate that TMK parcel 3-3-010 will remain undeveloped except for a hiking trail.
- 3. The Location Map (Figure 1) must be left as is to reflect the 3.9 acre Master Plan area within the project and EA scope.

We thank the Department of Parks and Recreation for participating in the environmental assessment review process.

Sincerely,

GERALD PARK URBAN PLANNER

Gerald Park
Gerald Park
Principal

c: T. Hildebrand, DDC

Hawaii Electric Co., Inc. Honolulu, HI 96814-3021
GEN-8 (EIS/EA)

POLICE DEPARTMENT
CITY AND COUNTY OF HONOLULU
801 SOUTH BERTANINA STREET
HONOLULU, HAWAII 96813 - AREA CODE (808) 929-3111
http://www.honolulu.gov
www.cc.honolulu.hi.us



JEREMY HARRIS
MAYOR

December 27, 2002

LEE D. DONOHUE
CHIEF
GLEN B. KAJIYAMA
PAUL D. PUTZLU
DEPUTY CHIEFS

received
12-28-02

Mr. Gerald Park
Gerald Park Urban Planner
1400 Rycroft Street - Suite 876
Honolulu, HI 96814-3021

December 30, 2002

received
1-22-03

OUR REFERENCE CS-KP

Mr. Gerald Park
Gerald Park Urban Planner
1400 Rycroft Street, Suite 876
Honolulu, Hawaii 96814-3021

Dear Mr. Park:

Re: **Mau'umae Nature Park Master Plan**
TMK: 3-3-014: 015, 017
Palolo, District of Honolulu, Oahu

Thank you for the opportunity to comment on the October 2002 draft EA of the Mau'umae Nature Park Master Plan, as proposed by the Department of Design and Construction, City & County of Honolulu. We have reviewed the subject document and have no comments at this time.

HECO reserves the opportunity to further comment on the protection of existing powerlines and electric power facilities that may be affected by the project until construction plans are finalized. Again, thank you for the opportunity to comment on this draft EA.

Sincerely,

cc: Ms. Genevieve Salmonson (OEQC)
Mr. Terry Hildebrand (C&C)



WINNER OF THE EDISON AWARD
FOR DISTINGUISHED INDUSTRY LEADERSHIP

Thank you for the opportunity to review and comment on the draft environmental assessment of the Mau'umae Nature Park Master Plan

We would like to recommend that this park, like many others, be closed between the hours of 10 p.m. and 6 a.m. to minimize potential disruptive activity. With this provision, there should be minimal impact on the facilities and services of the Honolulu Police Department.

However, please note that there may be a short-term impact on calls for police service regarding additional and slow moving construction-related traffic.

If there are any questions, please call Ms. Carol Sodeiani of the Support Services Bureau at 529-3658.

Sincerely,

LEE D. DONOHUE
Chief of Police

By
KARL GODSEY
Assistant Chief of Police
Support Services Bureau

Serving and Protecting with Aloha



STATE OF HAWAII
OFFICE OF ENVIRONMENTAL QUALITY CONTROL
150 SOUTH BEREBANIA STREET
HONOLULU, HAWAII 96813
TELEPHONE: (808) 586-4185
FACSIMILE: (808) 586-4185
E-MAIL: oeqc@hawaii.gov

GENEVIEVE SALMONSON
DIRECTOR

received
1.8.03

January 7, 2003

Mr. Terry Hildebrand
Department of Design and Construction
City and County of Honolulu
650 South King Street
Honolulu, Hawaii 96813

Mr. Gerald Park
Gerald Park Urban Planner
1400 Rycroft Street, Suite 876
Honolulu, Hawaii 96814

Dear Messrs. Hildebrand and Park:

The Office of Environmental Quality Control has reviewed the October 2002, draft environmental assessment for the Mau'umae Nature Park Master Plan, Tax Map Key 3-3-014, parcels 15 and 17, in the judicial district of Honolulu and the ahupua'a of Palolo, and offers the following comments for your consideration.

1. *Sidewalks bordering park on Claudine Street:* A February 7, 2000, article in the *Honolulu Star Bulletin* notes that title to Claudine Street (which borders the proposed park) is currently clouded as both the City and the Bank of Hawaii's dispute holding title to the street. As such, need repairs and improvements to the street have not been made. Please disclose whether the City will make improvements to the sidewalk on the Claudine Street border to the proposed park.
2. *Use of Native Vegetation and Glassphalt:* The Office recommends that the site be landscaped with native plants and that paved roadways make use of glass-asphalt aggregate.

If there are any questions, please do not hesitate to call Mr. Leslie Segundo of my staff at (808) 586-4185. Thank you for the opportunity to comment.

Sincerely,

Genevieve Salmonson
GENEVIEVE SALMONSON
Director



GERALD PARK
Urban Planner

Planning
Land Use
Research
Environmental
Studies

1400 Rycroft Street
Suite 876
Honolulu, Hawaii
96814-3021

Telephone:
(808) 942-7484

Facsimile:
(808) 942-7485
e-mail:
geraldpark@aol.com

February 26, 2003

Genevieve Salmonson, Director
Office of Environmental Quality Control
State of Hawaii
235 South Berberania Street, Suite 702
Honolulu, Hawaii 96813-2437

Dear Ms. Salmonson:

Subject: Mau'umae Nature Park Master Plan
TMK: 3-3-04: 015, 017
Honolulu, Oahu, Hawaii

Thank you for reviewing the Draft Environmental Assessment prepared for the subject project. We offer the following responses to your comments in the order they were presented.

1. Roadway and sidewalk improvements to Claudine Street bordering Mau'umae Nature Park are not proposed as part of the Master Plan.
2. The comment about using native vegetation has been passed to the landscape architect for the project.

The comment about using glass-asphalt aggregate for paved roadways has been forwarded to the Department of Design and Construction.

We thank the Office of Environmental Quality Control for participating in the environmental assessment review process.

Sincerely,

GERALD PARK URBAN PLANNER

Gerald Park
Gerald Park
Principal

c: T. Hildebrand, DDC



Mr. Gerald Park
January 9, 2003
Page 2

STATE OF HAWAII
DEPARTMENT OF HEALTH
P.O. Box 3378
HONOLULU, HAWAII 96804-3378

In Reply, Please Refer to
File #
02-306/epo

January 9, 2003



Mr. Gerald Park
1400 Ryeroff Street Suite 876
Honolulu, Hawaii 96814-3021

Dear Mr. Park:

Subject: Draft Environmental Assessment (DEA)
Mau'umae Nature Park Master Plan
Palolo, District of Honolulu
Tax Map Key: 3-3-014:015 & 017

Thank you for the opportunity to review and comment on the subject proposal. The DEA was routed to the various branches of the Environmental Health Administration. We have the following comments:

Clean Air Branch (CAB)

Control of Fugitive Dust

There is a significant potential for fugitive dust emissions during all phases of construction. The proposed construction activities will occur in proximity to existing residences, thereby exacerbating potential dust problems. It is recommended that a dust control management plan be developed which identifies and addresses all activities that have a potential to generate fugitive dust. Implementation of adequate dust control measures during all phases of development and construction activities is warranted.

Construction activities must comply with provisions of Hawaii Administrative Rules, Chapter 11-60.1, "Air Pollution Control," Section 11-60.1-33, Fugitive Dust.

The contractor should provide adequate measures to control dust from the road areas and during the various phases of construction. These measures include, but are not limited to:

- a. Planning the different phases of construction, focusing on minimizing the amount of dust generating materials and activities, centralizing on-site vehicular traffic routes, and locating potentially dusty equipment in areas of the least impact;

- b. Providing an adequate water source at the site prior to start up of construction activities;
- c. Landscaping and rapid covering of bare areas, including slopes, starting from the initial grading phase;
- d. Controlling of dust from shoulders and access roads;
- e. Providing adequate dust control measures during weekends, after hours, and prior to daily start-up of construction activities; and
- f. Controlling of dust from debris being hauled away from project site.

If you have any questions regarding these issues on fugitive dust, please contact the Clean Air Branch at (808) 586-4200.

Wastewater Branch (WVWB)

All wastewater plans must conform to applicable provisions of the Department of Health's Administrative Rules, Chapter 11-62, "Wastewater Systems." We reserve the right to review the detailed wastewater plans for conformance to applicable rules.

If you have any questions, please contact the Wastewater Branch at (808) 586-4294.

Noise, Radiation and Indoor Air Quality (NRIAQ) Branch

All project activities shall comply with the Administrative Rules of the Department of Health, Chapter 11-46, on "Community Noise Control."

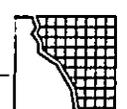
If you have any questions, please contact the NRIAQ at (808) 586-4701.

Sincerely,

June F. HARRIGAN-LUM

JUNE F. HARRIGAN-LUM, MANAGER
Environmental Planning Office

- c: CAB
- WVWB
- NRIAQ



GERALD PARK
Urban Planner

100 Bycrot Street
Aie 876
Honolulu, Hawaii
96814-3021

phone: (808) 942-7484
fax: (808) 942-7485
email: ercpark@aol.com

February 26, 2003

Chiyoume L. Fukino, M.D.
Director of Health
State of Hawaii
Department of Health
PO Box 3378
Honolulu, Hawaii 96801

Attention: June F. Harrigan-Lunn

Dear Dr. Fukino:

Subject: Mau'umae Nature Park

Thank you for reviewing and commenting on the Draft Environmental Assessment for the subject project. We offer the following responses to your comments in the order presented.

Clean Air Branch

At a minimum the Contractor's dust control measures will comply with all of those stipulated by the Clean Air Branch. Other air pollution control measures may be included in the construction plans and documents.

Wastewater Branch

When the proposed comfort station is built, wastewater disposal will comply with the applicable provisions of Chapter 11-62 "Wastewater Systems."

Noise, Radiation and Indoor Air Quality Branch

All construction activities will comply with Chapter 46, "Community Noise Control." The Contractor will apply for a Noise Permit prior to construction.

We thank the Department of Health for participating in the environmental assessment review process.

Sincerely,

GERALD PARK URBAN PLANNER

Gerald Park
Gerald Park

cc: T. Hildebrand, DDC



STATE OF HAWAII

DEPARTMENT OF LAND AND NATURAL RESOURCES

NATURAL PRESERVATION DIVISION
HAWAIIAN BIRD AND BIODIVERSITY
DIVISION
1500 ALI'OLEA BOULEVARD
HONOLULU, HAWAII 96819

HAWAII HISTORIC PRESERVATION
DIVISION REVIEW

Log #: 31402
Doc #: 0212EJ19

Applicant/Agency: Gerald Park
Urban Planner
Address: 1400 Rycroft Street, Suite 876
Honolulu, Hawaii 96814-3021

SUBJECT: Chapter 6E-8 Historic Preservation Review - Draft Environmental Assessment
for the Mau'umae Nature Park Master Plan

Ahupua'a #: Palolo
District, Island: Kona, O'ahu
TMK: (1) 2-3-014:015, 017

1. We believe there are no historic properties present, because:

- a) intensive cultivation has altered the land
- b) residential development/urbanization has altered the land
- c) previous grubbing/grading has altered the land
- d) an acceptable archaeological assessment or inventory survey found no historic properties (Mama et al. 2002. *Archaeological Inventory Survey and Cultural Assessment of a 3.97-Acre Portion of the Proposed Mau'umae Nature Park, Wihemina Rise, Mau'umae III, Palolo Ahupua'a, Kona District, O'ahu.*)
- e) other:

2. This project has already gone through the historic preservation review process, and mitigation has been completed.

Thus, we believe that "no historic properties will be affected" by this undertaking

Staff: *Elaine Jourdan* Date: 1/29/03

Title: Elaine Jourdan, Assistant Archaeologist O'ahu Phone (808) 692-8077

Cc: Terry Hildebrand, Department of Design and Construction, City and County of Honolulu



CITY AND COUNTY OF HONOLULU
 DEPARTMENT OF TRANSPORTATION SERVICES
 650 SOUTH KING STREET, 3RD FLOOR • HONOLULU, HAWAII 96813
 TELEPHONE: (808) 525-3313 • FAX: (808) 525-4730 • INTERNET: www.honolulu.gov



CHERYL D. SOON
 DIRECTOR
 GEORGE W. EDWARDS BUILDING
 COUNTY DIRECTOR
 TP11/02-18346R

January 8, 2003



Mr. Gerald Park
 Gerald Park Urban Planner
 1400 Rycroft Street, Suite 876
 Honolulu, Hawaii 96814-3021

Dear Mr. Park:

Subject: Mau'umae Nature Park Master Plan

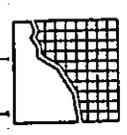
In response to your November 25, 2002 letter, we reviewed the draft environmental assessment (EA) for the subject project and have the following comments:

1. The proposed children's play area, comfort station, and hiking trail should be Americans with Disabilities Act (ADA) accessible. In addition, the proposed parking area should include ADA accessible parking spaces.
2. The master plan should include frontage improvements, i.e. sidewalks, curbs/gutters, corner rounding, etc., in accordance with City standards.
3. All of the road right-of-way widths cited on Page 14 of the draft EA in Section 2L. Public Facilities should be confirmed.
4. On Page 14 of the draft EA, "off-street" in the fourth sentence in the first paragraph of Section 2L. Public Facilities should be "on-street." The discussion of on-street parking should include peak period parking restrictions.
5. On Page 19 of the draft EA, the third paragraph of Section 3B. Long-term Impacts discusses the impact of not providing more on-site parking. The master plan should address and include provisions to mitigate this matter.

Should you have any questions regarding these comments, please contact Faith Miyamoto of the Transportation Planning Division at 527-6976.

Sincerely,

 CHERYL D. SOON
 Director



GERALD PARK
 Urban Planner
 Planning
 Land Use
 Research
 Environmental
 Studies

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 96814-3021
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 Facsimile:
 (808) 942-7485
 e-mail:
 geraldpark@acd.com

February 26, 2003

Cheryl D. Soon, Director
 Department of Transportation Services
 City and County of Honolulu
 650 South King Street, 3rd Floor
 Honolulu, Hawaii 96813

Dear Ms. Soon:

Subject: Mau'umae Nature Park

Thank you for reviewing and commenting on the Draft Environmental Assessment for the subject project. We offer the following responses to your comments in the order presented.

1. The park improvements will be ADA accessible. The parking area will include ADA accessible parking stalls.
2. The scope of work for the Mau'umae Nature Park Master Plan did not include improving the street frontage adjoining the park.
3. The road rights-of-way will be confirmed during the design stage of the project or at the time frontage improvements to 16th Avenue or Claudine Street are proposed.
4. The text will be revised to "on-street" parking. At this time there is no peak period on-street parking restrictions for Claudine Street. A "No Parking At Any Time" sign is posted on the mauka side of Claudine Street fronting Mau'umae Nature Park; on-street parking is permitted on the makai side of the street.
5. If carelessly parked vehicles create a public safety problem in the vicinity of Mau'umae Nature Park, the City and County of Honolulu can institute peak period on-street parking restrictions or increase the ticketing of illegally parked vehicles. Such measures should be considered only after consultation between the Department of Transportation Services, Department of Parks and Recreation, Honolulu Police Department, and neighboring residents.

We thank the Department of Transportation Services for participating in the environmental assessment review process.

Sincerely,

 GERALD PARK URBAN PLANNER
 Gerald Park

c: T. Hildebrand, DDC