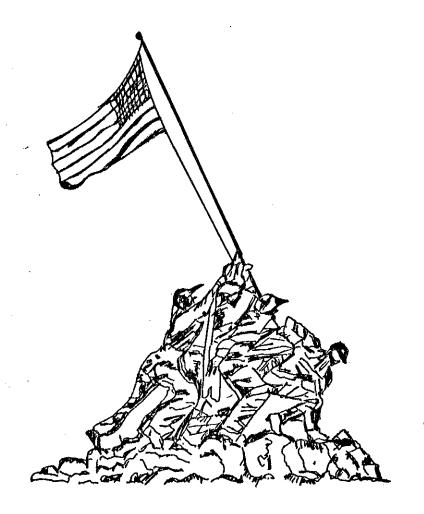




OKINAWA, JAPAN

PREPARED BY: FACILITIES ENGINEER MCB CAMP BUTLER, OKINAWA, JAPAN



MCB CAMP SMEDLEY D. BUTLER

CAMP SCHWAB and henoko ammunition area

MASTER PLAN

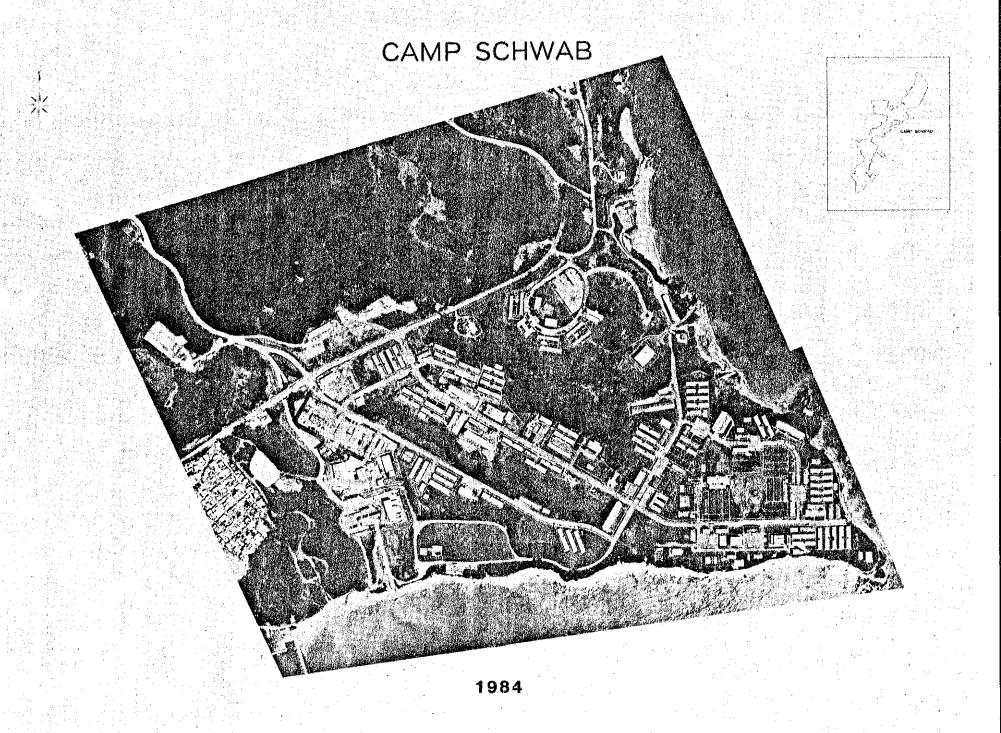
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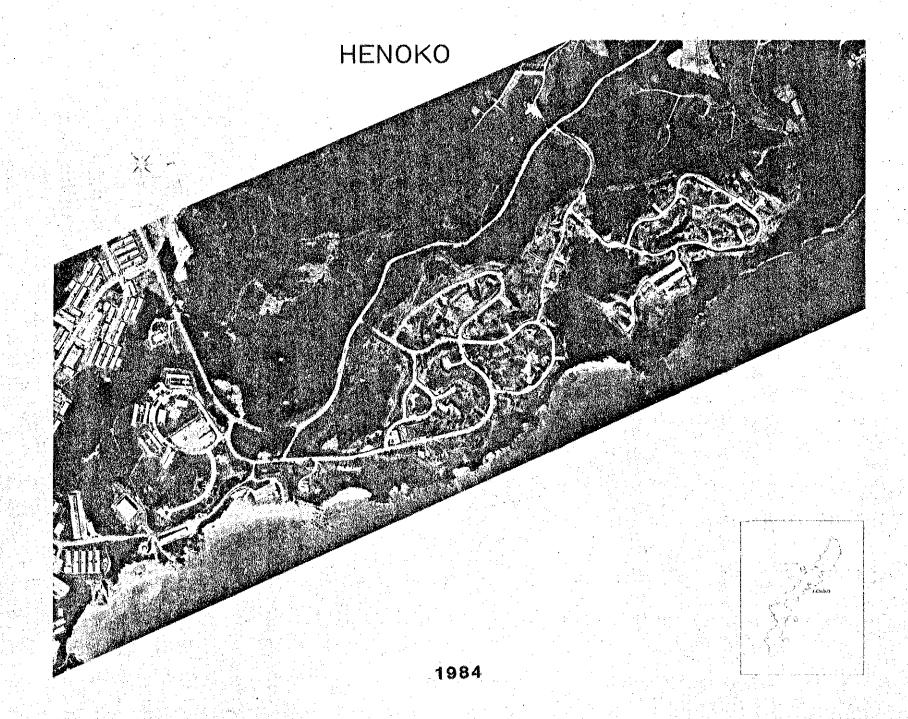
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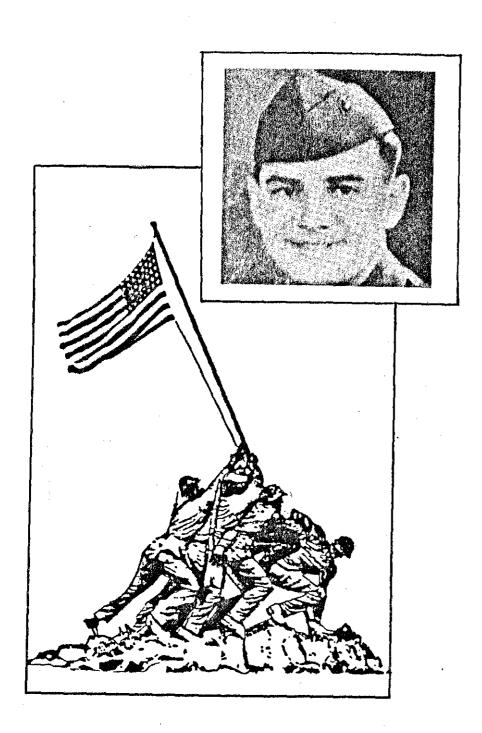
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IN MEMORIAL PFC ALBERT E. SCHWAB

PFC Albert E. Schwab, Camp Schwab's namesake, was more than just another brave Marine. He won the Medal of Honor.

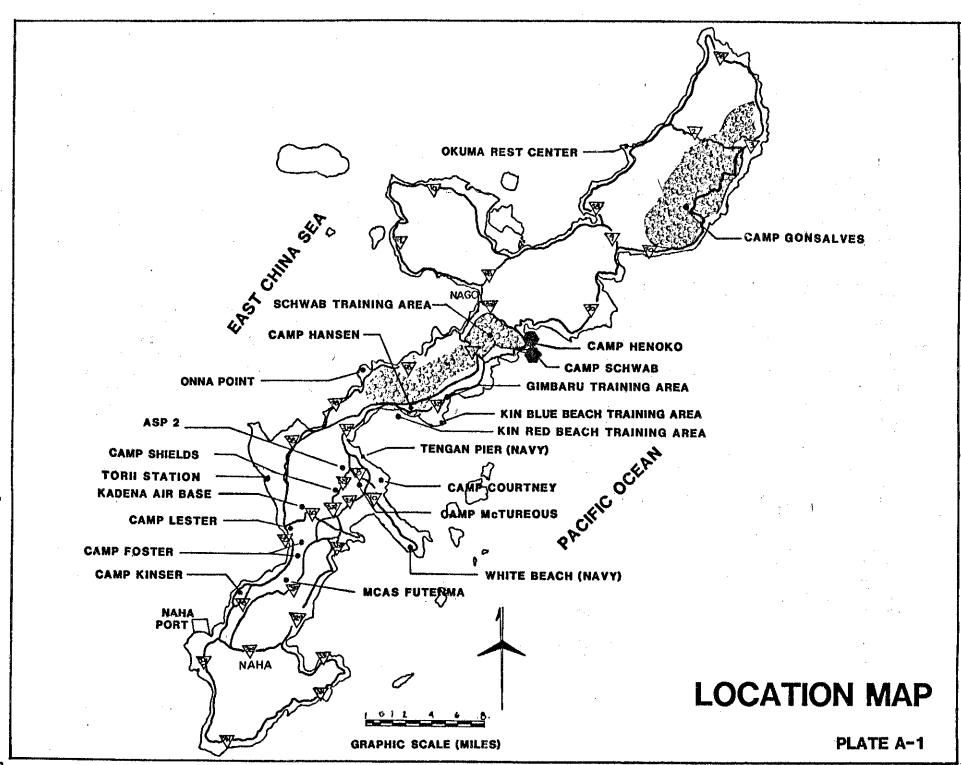
It was May 7, 1945. U.S. Forces had landed on Okinawa just eight days before. Schwab, a flamethrower operator, found that his company was pinned with heavy casualties. Machine gun fire blanketed the area. It seemed to be coming from flanking the enemy. There was only one way to go. Straight ahead.

1910

Schwab grabbed his flamethrower and took off in bold defiance of an enemy barrage. Skillfully, he directed the fire from his flamethrower and quickly demolished the enemy position. His company was then able to occupy the ridge. Suddenly, a second enemy machine gun opened fire from out of no where. Several Marines were killed and wounded from the initials bursts.

But Schwab continued his one-man assault despite the fact he was by then low on fuel. He cooly moved forward in the face of enemy fire. He closed with the enemy position and attacked. Although severly wounded by a final vicious blast from the enemy position, Schwab had succeeded in destroying two highly strategic Japanese gun positions during a critical stage of the operation. By a single-handed effort, he had materially advanced his company.

His aggressive initiative, outstanding valor and professional skill were a credit to both his Corps and country.



A. EXECUTIVE SUMMARY

1. INTRODUCTION &

This Plan was prepared by the Public Works Branch of the Facilities Engineer Division, Marine Corps Base Camp Smedley D. Butler. Its purpose is to act as a guide for the future use and facility development of USMC Camp Schwab and the Henoko Ammunition Storage Area, Okinawa, Japan.

2. MCB CAMP S.D. BUTLER

MCB Camp Smedley D. Butler, Japan, is comprised of eight major USMC camps on Okinawa and Camp Fuji on Honshu Island, as illustrated by Plates A-1 and A-2. Including maneuver areas, MCB Camp Butler constitutes more than 81,456 acres and 3,527 buildings and structures with a replacement value in excess of \$1.3 billion dollars.

3. CAMP SCHWAB AND HENOKO

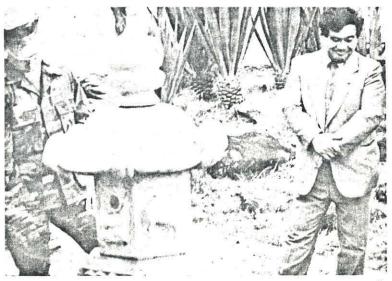
Camp Schwab (USFJ Facility Number 6009) is a component to MCB Camp Butler, and provides administrative support for the Headquarters units of 4th Marine Regiment. Elements of the 3d Marine Division, headquartered at Camp Courtney, are located at Camp Hansen, including 1st Tracked Vehicle Battalion, 3rd Reconnaissance Battalion, and 3rd LAV Battalion.

Elements of the 3d Force Service Support Group, headquartered at Camp Kinser, are also located

at Camp Hansen, including the 3rd Medical Battalion and 3rd Dental Company. Ammunition Company, 3rd Supply Battalion, is located at the Henoko Ammunition Storage Area (USFJ Facility Number 6010).

Current programmed strength for Camp Schwab and Henoko consists of 3,694 Marines (206 officers and 3,488 enlisted personnel), 17 Naval officers, 193 Naval enlisted personnel, and 2 civilians. A summary of programmed strength is shown by Figure A-1.

This Master Plan examines Camp Schwab, the Schwab Training Area (North Central Training Area), and the Henoko Ammunition Storage area. These facilities are combined for consideration of Basic Facilities Requirements when analyzed by the Facilities Engineer, MCB Camp Butler.



Nago Businessmen's Association presents new stone lantern to Camp Schwab

BASE LOADING: PROGRAMMED STRENGTH

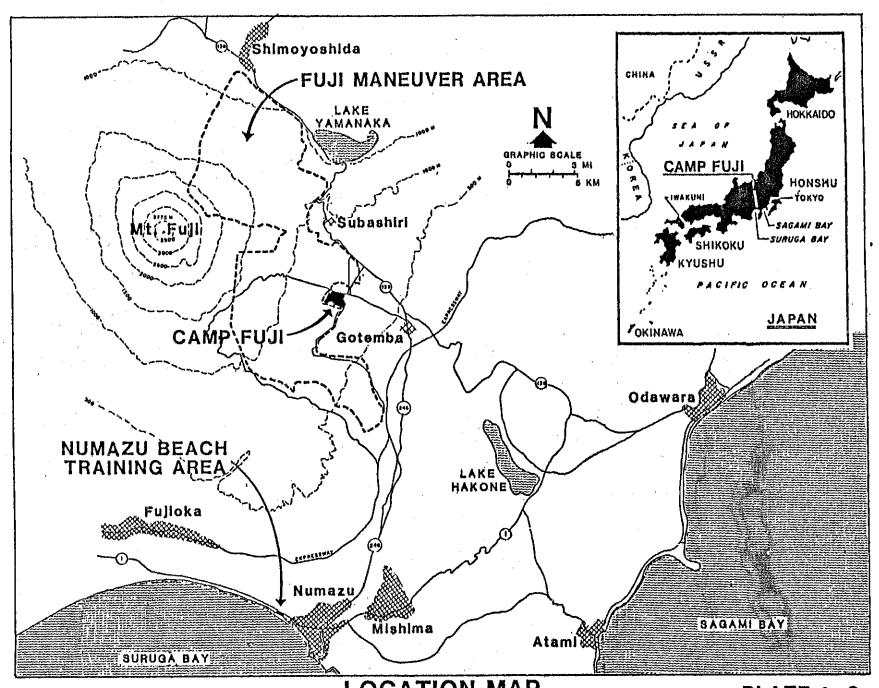
A PROPERTY OF THE PROPERTY OF	Mar	ines	Oti	her	
Non-Rotational Units	Off	Enl	Off	Enl	Civ
3RD MAR DIV					
HQ CO 4TH MAR	21	200	1	3	
1ST TRACK VEH BN HQ	44	800	2	8	
3RD RECON BN	22	218	2	13,	
C CO (+), 3RD LAV BN	9	150			
3RD FSSG					
AMMO COMPANY, 3RD SUPPLY BN	16	290			
C CO, 3RD MED BN			1	33	'
3RD DENTAL CO			5	4	
TAFDS, WES-17, 1ST MAW		6			
MCB CAMP BUTLER	3	56			
RED CROSS					1
USO					1.1

	Marines		Other		<u> </u>	
Rotational Units	Off	Enl	Otf	Eni	Civ	
1ST TRACK VEH BN	21	545				
4TH MAR						
INF BN	43	78,1	2	30		
INF BN	43	781	2	30		

TOTAL BASE LOADING
TOTAL BASE LOADING 2068488 17 193 1

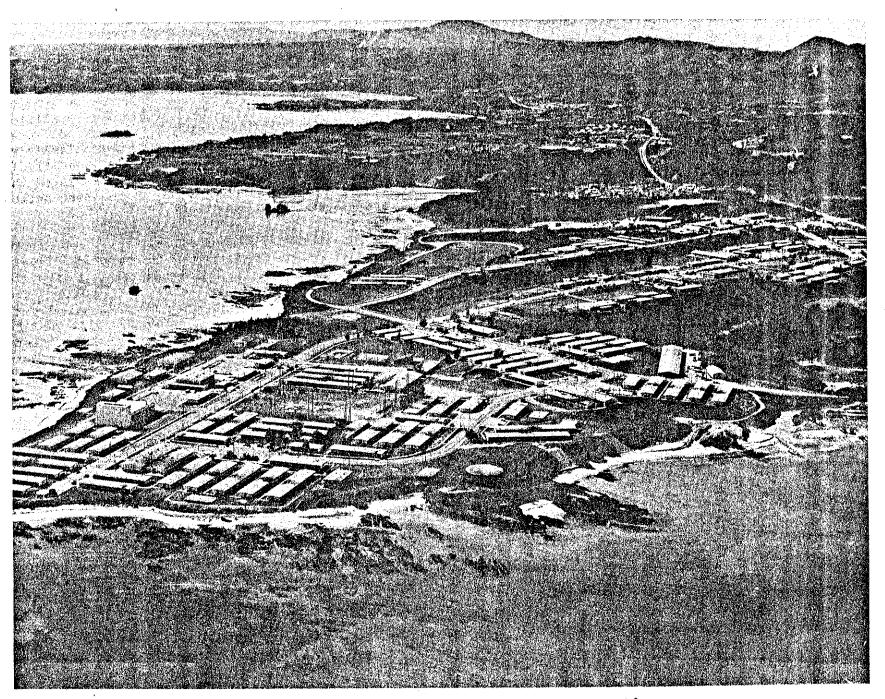
NOTE:

Under the planned Unit Deployment Concept, 1/4 is home based at Twentynine Palms while 2/4 and 3/4 is home based at Camp Lejeune. Infantry battalions will rotate from the Second Marine Division Rotation Base on a six month TAD basis.



LOCATION MAP

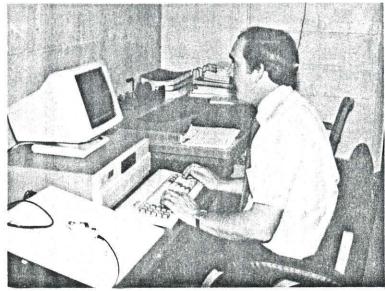
PLATE A-2



Camp Schwab Looking Southwest (c. 1982)

4. PURPOSE OF THE PLAN

The primary purpose of the Master Plan is to provide a realistic, orderly, and achievable development scheme for Camp Schwab and Henoko, taking into account the interrelationships and needs of the component organizations and users within the installation, and recognizing the natural and man-made environmental constraints which limit define and construction opportunities. Other objects are the identification trends and potential growth importing on land utilization, and the inventory of information vital to future planning episodes.



MANAGEMENT ANALYST UPDATES FACILITY DATA BASE

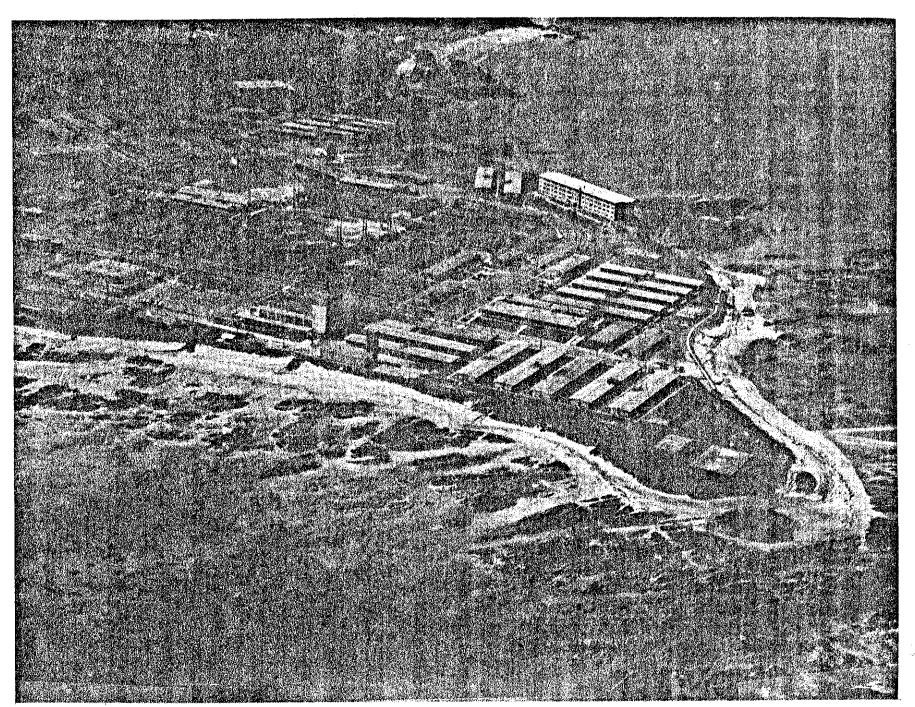
5. METHODOLOGY

Because of the dynamic and volatile nature of host-nation construction programs, Facilities Engineer for MCB Camp Smedley D. Butler directed in 1983, the in-house publication of a family of Master Plans which precipitated the timely resolution of facilities issues and assisted the capture of over \$200 million in the host-nation funding.

The draft Master Plan for Camp Schwab and Henoko was published in September 1985. This "final" Master Plan itself represents only a fragile milestone subject to continued policy and programming change at an international level. With this in mind, the final Master Plan must be viewed as a stepping stone in a dynamic intercourse expected to challenge facilities planners and installation commanders through the 1990s.

6. MAJOR RECOMMENDATIONS

- A. Concurrence with the Bachelor Housing Master Plan for USMC, Japan-wide, published in draft November, 1985.
- B. Concurrence with the Okinawa Housing Development Plan (OHDP), a service-coordinated multi-year development plan, published jointly by MCB Camp Butler and representatives of the Air Force, Navy, and Army on Okinawa. This plan recommends 542 military family housing (MFH) units for Camp Courtney, as well as community support facilities for Camp Courtney and nearby Camp McTureous, part of which supports of programmed accompanied tours at Camp Schwab and Henoko.



CAMP SCHWAB LOOKING NORTH

- C. Full implementation of the Base Exterior Architecture Program to improve the visual landscape at Camp Hansen and to support pride and professionalism.
- D. Full implementation of the Capital Improvements Plan developed in conjunction with this Master Plan, including 9 host-nation construction projects worth more than \$540 million, 6 military construction projects worth nearly \$37 million, and 5 NAF projects worth \$2.5 million.
- E. Implementation of a Demolition Plan to remove dilapidated structures, to permit construction of out-year projects and for environmental enhancement.
- F. Development of a consolidate range Master Plan for Marine Corps Training Areas on Okinawa.

7. FOLLOW-ON STUDIES

A. ON-GOING STUDIES

The following studies are underway at this time and will be incorporated into the Master Plan upon completion:

- 1. A study to identify all MCB Camp Butler borrow and file locations.
- 2. A Utilities Improvement Program is under study by MCB Camp Butler and the Government of Japan, to insure that out-year

infrastructure projects are programmed to support the Capital Improvements Plan generated by this Master Plan.

Identification of watershed and flood hazards maps for MCB Camp Butler.

B. RECOMMENDED STUDIES

The following studies are recommended for implementation:

- A Navy Assessment and Control of Installation Pollutants Study.
- A Comprehensive Land Management Plan and a Turf Management Plan.

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C. INTRODUCTION

1. MISSION AND LOCATION

Camp Schwab (USFJ Facility Number 6009) and the Henoko Ammunition Storage Area (USFJ Facility Number 6010) are seperate installations of MCB Camp S.D. Butler. However, programmed strength figures and basic facilities requirements (BFRs) are developed for the combined Camp Schwab and Henoko complex because of their inter-dependence and physical adjacency. Throughout this Master Plan the term "Henoko" is used as reference to the Henoko Ammunition Storage Area.

A. CAMP SCHWAB (FAC 6009)

Camp Schwab (USFJ Facility Number 6009) is subordinate to Marine Corps Base Camp Smedley D. Butler, and contains 5,052 acres of land, including 126 acres of improved (paved) surface. Camp Schwab provides administrative support for the Headquarters units of 4th Marine Regiment. Responsibility for Camp Schwab is assigned to the Commanding Officer, 4th Marine Regiment. As illustrated by Figures C-1 and C-2, Camp Schwab is located in the northern physiographic province of Okinawa, along the eastern coastline approximately 5 kilometers northeast of Ishikawa City, and adjacent to the town of Kin.

Access to Camp Schwab is provided by National Highway 329, Which separates the contonment area

of Camp Schwab and Henoko from the Schwab Training Area. Tracked vehicles move from the cantonment area to the training area via underpass below Highway 329.

B. HENOKO AMMUNITION STORAGE AREA (FAC 6010)

Henoko (USFJ Facility Number 6010) contains 286 acres of land and consists of 34 buildings, 40 earth-covered ammunition storage igloos, and a billeting area with community support facilities, BEQs, and BOQs. Henoko is a tenant organization of the Camp Schwab, and falls under the responsibility of the Commanding Officer, 4th Marine Regiment. As shown by Figure C-2, Henoko is physically adjacent to the north boundary of the Camp Schwab cantonment area.

C. CAMP SCHWAB TRAINING AREA (FAC 6009)

The Central Training Area (CTA) is located to the west and south of Camp Schwab as shown by Plate C-1 and Figure C-3. The Commanding Officer of the 4th Marine Regiment, as Camp Commander for Camp Schwab, is responsible for the portion of the CTA rorth of Highway 108. (The portion south of the highway is the responsibility of the Camp Commander of Camp Hansen, who is the Commanding Officer, 9th Marine Regiment).

Vehicular access to the Camp Schwab Training Area (North CTA) is provided from the Camp Schwab cantonment area, and from several access

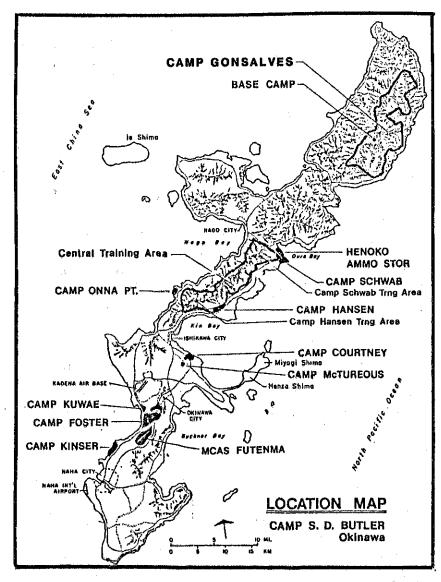


Figure C-1

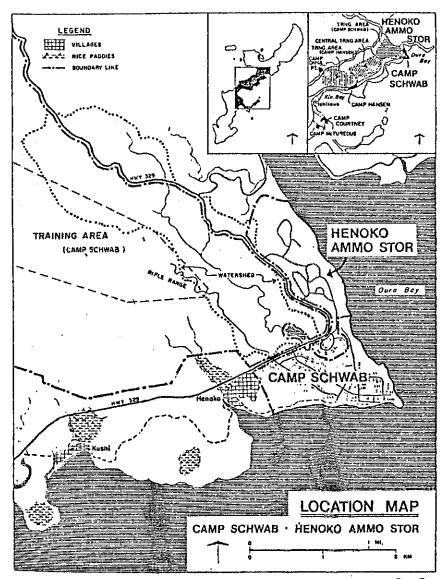


FIGURE C-2

routes which connect National Highway 329 to National Highway 58.

The Camp Schwab Training Area contains 4,926 acres of mostly steep and irregulat land. Most of the Training Area is undeveloped watershed.

The Camp Schwab Training Area consists of small arms ranges, a mortar range, a large caliber direct fire weapons (Tank) range, and maneuver areas capable of accomodating company-size units. No live firing is allowed in the Camp Schwab maneuver areas. The target tunnel at Range 10 provides the only live fire area for the M60Al tank 105mm main gun on Okinawa. EOD Site #3, controlled by the Japanese Ground Self-Defense Force (JGSDF) is the primary area for explosive ordance disposal and training. The maneuver areas and target tunnel are used primarily by units stationed at Camp Schwab but the small arms ranges are used by a variety of units on Okinawa.

The use of the Camp Schwab Training Area is constrained: firing of the 105mm is limited toinert ordnance and the large caliber range and mortar range cannot be employed concurrently. Approximately 160 acres in the south-west portion of the Camp Schwab Training Area is used by the Okinawa Prefectural Government as an Experimental Forestry Station, as shown by Plate C-1. Armor units using Range 10 (Tank Range) have no direct access to the maneuver areas

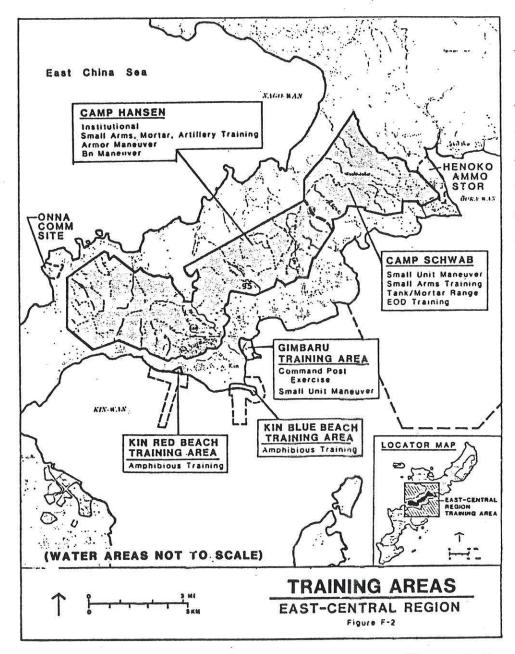
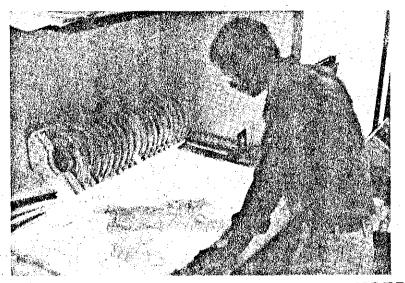
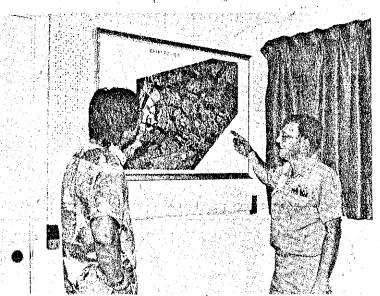


Figure C-3



NATURAL FACTOR OVERLAYS ARE USED TO OPTIMIZE SITE SELECTION



AERIAL PHOTOGRAMMETRY IS USED TO IDENTIFY PROBLEM AREAS SUCH AS AREAS OF ENCROACHMENT AND CULTURAL SITES



CORPORATE PLANNING MEETINGS KEEP MASTERPLANS VALID THROUGH THE CONSTRUCTION PHASE



MASTERPLAN MODELS HELP VISUALIZE OUT-YEAR CONSTRUCTION ALTERNATIVES

south of Highway 108 in the Hansen Training Area.

D. SCHWAB TRAINING WATER AREA (FAC 6009)

The Schwab Training Water Area, shown by Figure C-3, is used for amphibious training exercises, samll boat and surf training, and helicopter air-rescue training.

2. PLANNING OBJECTIVES

The primary purpose of this Master Plan is to provide a realistic, orderly, and achievable development scheme for Camp Schwab and Henoko, taking into account the interrelationships and needs of the component organizations and users within the installation, and recognizing the natural and man-made environmental constraints which limit and define construction opportunities. In conjunction with the development of conceptual land use. implementation plan is proposed to ensure a logical and unencumbered construction sequence.

A second objective is to identify trends and potential growth of functions having an impact on land utilization and to provide a development scheme responsive to change.

An additional purpose of the Master Plan is to inventory and collect information useful to the planning process to insure its availability for future planning episodes. Having paid the cost

of site investigation once, the taxpayer should not be obliged to pay it twice.

3. SCOPE AND USE

This Master Plan is based on real-time requirements validated by the Facilities Engineer, MCB Camp Butler, as reflected in the Facilities Planning Documents and other pertinent planning data. The plan is intended to be a viable document that can be adjusted to accommodate changes, and will be updated by the Public Works Branch of the Facilities Engineer Division as required. The Plan is published in loose-leaf format to insure flexibility (please note the Record of Changes form provided at the front of the plan). The readership is requested to post changes as received.

4. METHODOLOGY

The MCB Camp Butler Master Plan, last completed in September 1980, required an update in accordance with NAVFACINST 11010.63B. Historically, Marine Corps Master Plans for MCB Butler and MCAS Futenma have been published in three volumes: (a) Camp Fuji on Honshu Island, (b) MCAS Futenma on Okinawa Island, and (c) all remaining installations on Okinawa.

Mainly because of the dynamic and volatile nature of host-nation construction programs, a

new concept was developed in 1983, warranting the publication of a family of Master Plans covering each installation in a separate volume. Special editions addressing the BEQ/BOQ Development Plan and a Recreational Master Plan were also envisioned. The advantages of in-house masterplanning include:

- a. Installation Master Plans are developed by order of priority, and individual planning issues can be fasttracked for timely resolution.
- b. Installation Commanders have easier access to information, which facilitates use.
- c. Flexibility in draft and final publication is achieved. Post-final update capability allows continued use of the document as a real-time reference.
- d. Reduction of generic inventory and blanket recommendations which do not address developmental constraints such as construction sequencing and programming delays.
- e. The establishment of a corporate approach to facilities planning at the Marine Corps Base level.

It must be recognized that the volatile and dynamic nature of host nation construction programming has maximized the degree of rework associated with each Master Plan. The draft

Master Plan for Camp Schwab and Henoko was published in September 1985. The "final" Master Plan, published in March 1987, itself represents only a fragile milestone subject to continued policy and programming change at an international level. With this in mind, the final Master Plans must be viewed as stepping stones in a dynamic intercourse expected to challenge facilities planners and installation Commanders through the 1990s.

5. FORMAT OF THE PLAN

The Master Plan is published in accordance with NAVFACINST 11010.63B, with several "user friendly" format changes. These include:

- a. A graphical display of Basic Facilities Requirements in Section E, supplimented by a complete family of Facilities Planning Documents in Appendix L-1. These manually generated FPDs will eventually be replaced by computer-genetrated FPDs as MCB Camp Butler fully implements the Shore Facilities Planning System.
- b. A "best-guess" construction schedule for all capital improvements initiated by the Master Plan is articulated in Section I. This section is designed to assist the installation Commander in the management of change generated by construction, demolition, renovation, and reallocation of facilities.

c. An Existing Conditions Map with grid lines and accompanying index of all buildings and structures at Camps Schwab and Henoko has been added as Appendix L-4.

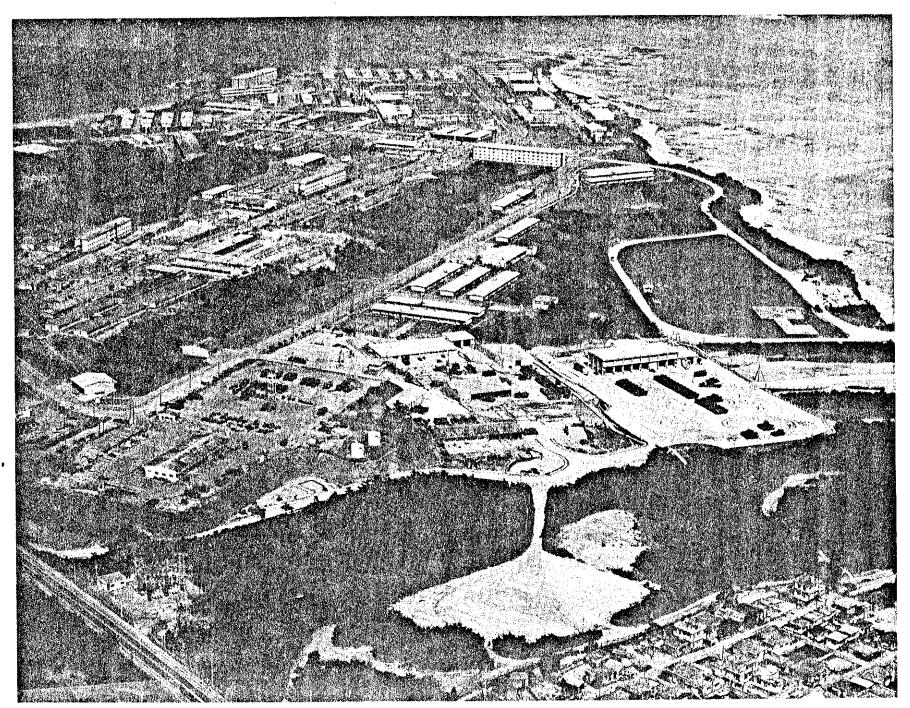
6. RELATED PUBLICATIONS

The readership would benefit from cross-referencing the following publications:

- a. Okinawa Regional Profile (draft), published by PACNAVFACENGCOM, November 1978.
- b. BEQ/BOQ Development Plan (draft), published by Public Works, MCB Camp Butler, November 1985.
- c. MCB Camp Butler Recreational Master Plan (draft), unpublished.
- d. Joint Services Development Plan for Military Family House, published by USMC/USAF/USN/USA Okinawa, 12 September 1985.



PLANNING MAPS FOR ALL MCB CAMP BUTLER INSTALLATIONS ARE CONTINUOUSLY UPDATED



CAMP SCHWAB LOOKING SOUTHEAST ACROSS HIGHWAY 329

EXISTING CONDITIONS

The purpose of this section is to report the data base developed during the Data Collection Phase of the Master Plan. Information is graphically portrayed by map plates, illustrations, and tables.

This section is divided into a Regional Overview of Okinawa, a discussion of the Natural Planning Factors at Camp Courtney, and a report on man-made infrastructure.

1. REGIONAL OVERVIEW

The Okinawa Regional Profile published in November 1978 by Pacific Division, Naval Facilities Engineering Command, is considered a companion document to this master plan. Readers are invited to review the regional profile for general background on Okinawa and military holdings.

A. INTRODUCTION

The Ryukyu Islands, of which Okinawa is the largest, are part of a chain extending from Japan to New Guinea and forming the geographic limits of the West Pacific Ocean from 45° North Latitude to 0° Latitude. The Sea of Japan, the East China Sea and the South China Sea separate these islands from mainland Asia.

The Ryukyus are strategically located in this island chain and are within easy reach of some of the most important cities in Asia. Okinawa is centrally located between Japan and Taiwan and consist of 72 islands divided into three major groups: Okinawa Gunto, Miyako Gunto and Yaeyama Gunto. The translation for "gunto" is "group of islands." These three guntos make up a total land area of 848 square miles. The Okinawa Gunto contains an area of 544 square miles with the main island of Okinawa having 454 square miles of this total.

Figure D-1 shows the geographic relation of Okinawa to thereto of Japan and Asia.

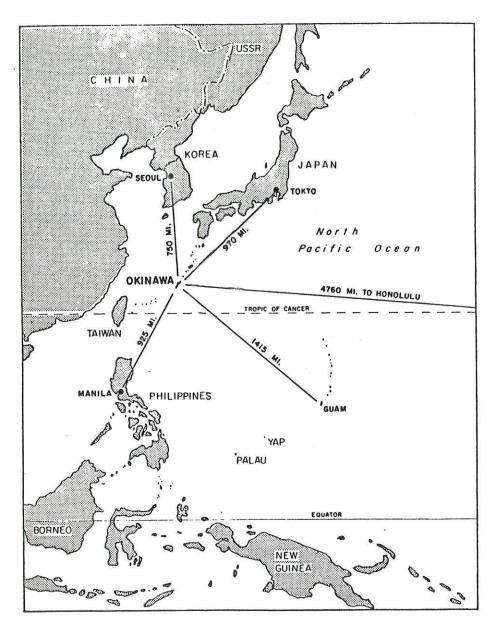
B. HISTORY

The original inhabitants of the Ryukyu Islands are believed to have moved southward from Japan proper some 3,000 years ago.

Ethnically, the people of Okinawa are a mixture of at least three groups: Mongolian, Ainu and Malayan. As writing was introduced from Japan in the 14th century, the history of Okinawa prior to that time is based on oral sagas, and is unfortunately incomplete.

Formal trade began with China in 1372 when the Okinawans paid tribute to the Ming Dynasty. The prosperous trade between the two countries proved a great benefit to Okinawa.





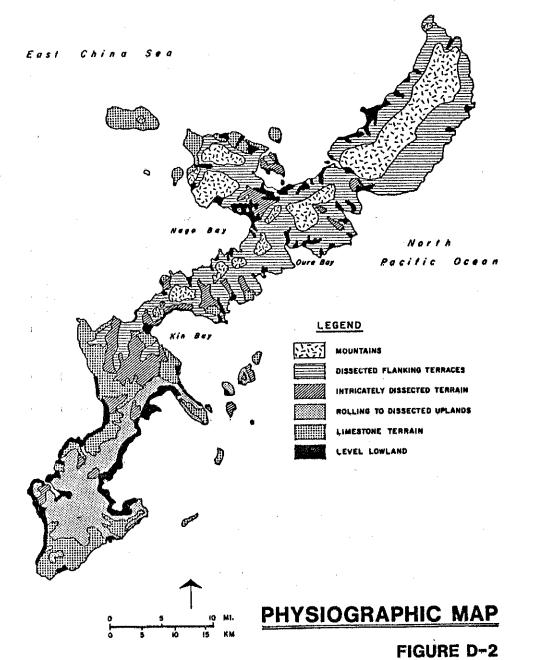
REGIONAL MAP FIGURE D-1 Okinawa was divided into three kingdoms until the 15th century. At that time, Sho Hashi became king of the central kingdom and subsequently conquered all of Okinawa. He established his government in the new capital of Shuri.

A "golden age" for the Ryukyus extended from 1398 to 1573. During this period, the Okinawa people maintained contacts with Japan, China and as far away as Indonesia and Thailand. Okinawan folk crafts were perfected, and music, poetry and dance flourished.

In 1609, samurai warriors from Kyushu Island in southern Japan invaded Okinawa. For the next 270 years, Okinawa remained "independent" but was forced to pay tribute. Tightrope diplomacy was practiced as the Okinawans still payed tribute to China and did not want to offend neither the Japanese nor the Chinese.

The situation became trickier when Commodore Perry's fleet landed in Naha in 1851 to open trade and relations with the United States. Other European expeditions soon followed, and the Japanese feared losing control of Okinawa to "outside interests."

Japan sent a military expedition to the island in 1868. In 1879, Okinawa became a Japanese prefecture. The official language became Japanese, and the education and political system of the island were rapidly standardized with that of mainland Japan.



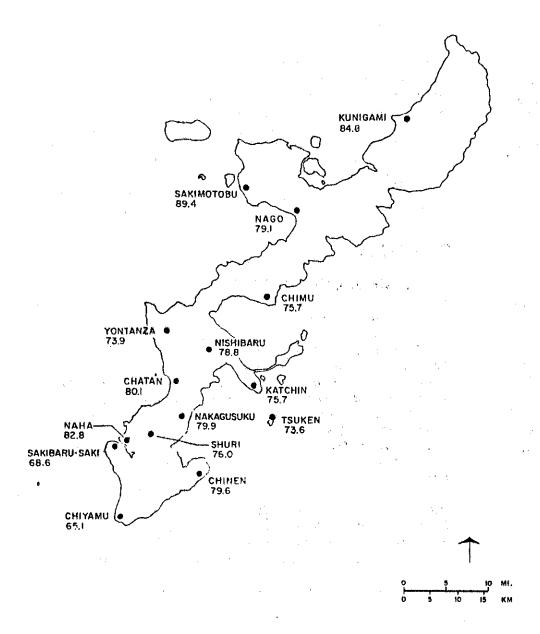
Due to its geographical situation, Japan turned Okinawa into a bastion to guard its southern approaches during World War II. The Okinawans suffered greatly at the close of the war in 1945. The three month Battle of Okinawa caused widespread destruction and the deaths of over 100,000 non-combatant Okinawans, in addition to military casualties of 60,000 Americans and 110,000 Japanese. The Ryukyu Islands were returned to Japanese sovereignty in 1972.

C. GEOLOGY

1. GEOLOGIC SETTING

Okinawa and most other islands of the Ryukyus are formed by an exposed crest of a large, curved submarine ridge that extends about 750 miles from the south tip of Kyushu Island, Japan, to the northeast coast of Taiwan. The ridge is separated from the Philippine Sea basin by steep slopes and the Ryukyu Trench, which lies more than 24,000 feet deep to the south of Okinawa. Another trough about 7,000 feet deep lies between the ridge and the shallow platform of the East China Sea to the northwest.

These formations are known collectively as the Ryukyu Arc. The arc is one of several geologically active zones along the western side of the Pacific Basin. It is the site of numerous earthquakes, and on its western side, active volcances. A physiographic map is illustrated by Plate D-2.



MEAN ANNUAL RAINFALL

cm

FIGURE D-3

2. HYDROLOGIC DATA

Conspicuous difference is observed between the central and southern districts and the northern district of Okinawa Island in terms of topography and geology. The central and southern districts feature gentle hills with few rivers. The soft pelite basement overlain by vesticular Ryukyu limestone forms an effective subterranean basin for ground water storage. On the contrary, the northern district features steep mountains mainly consisting of late Mesozoic slate, phyllite, and schist.

Approximately 300 rivers are found in Okinawa Prefecture. However, the size of these rivers is generally small and only 37 rivers have a significant watershed. Most of the rivers are steep brooks of shore streams, apt to result in abrupt inundation following a short-time downpour. Flash floods are a constant problem.

In the central and southern districts are large rivers such as the Ishikawa, Tengan, Hija, and Kokuba Rivers. Most rainfall penetrates into the ground and forms subterranean streams.

D. METEOROLOGY

Okinawa is characterized by a humid subtropical climate due to its proximity to the Tropic of Cancer and the warming influence of the Kuroshio, or Black Current. The Kuroshio is a major ocean current which originates from equatorial currents

east of Taiwan and passes west of Okinawa, northward to Japan. Temperatures, salinity and transparency of Kuroshio waters are typically high. The Kuroshio is the north Pacific's equivalent of the Gulf Stream and has a moderating effect on nearby coastal waters and climate. Winters are mild and summers humid. The yearly average temperature on Okinawa is 22.4°c (72.3°F). Wind blows from northeast in winter and southeast in summer.

1. TEMPERATURE

The average weather data indicates a mild average annual temperature of 22.4°C (72.5°F), an average summer temperature of 28.1°C (82.6°F) in July, and an average winter temperature of 16°C (60.8°F) in January.

2. PRECIPITATION

Large rainfall is generally observed in the rainy season (June) and the typhoon season (August). Total annual precipitation reaches (84 inches with an average monthly high of 11.5 inches in June and an average low of 4.6 inches in December. Distribution of mean annual rainfall is illustrated by Figure D-3. The average annual humidity is 77 percent.

3. WIND

2.3

Following the gradual diminishing of the northeast seasonal wind which peaks in January, the rainy season comes from spring to early summer. It is called "Sumanbosu" and is followed by the summer seasonal wind which is known as "Kachipe". The sumanbosu is not unlike the tsuyu of mainland Japan. Yearly average wind velocity is 11.2 mph, mostly from the northeast. A wind rose is shown as Figure D-4.

4. SOLAR INFORMATION

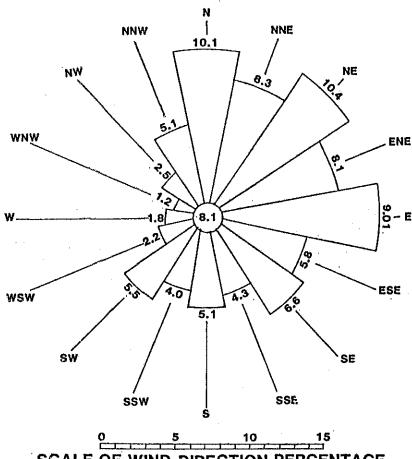
The duration of sunshine is 2,047 hours a year and the percentage of possible sunshine is 46% a year.

E. FLORA AND FAUNA

1. FLORA

The overall vegetation of Okinawa was surveyed in 1973-1975 by the Japan Environment Agency and includes several different general vegetative Much of northern Okinawa is cover types. characterized by a broad-leafed and needleleafed forest predominated by Castanopsis custidata and Pinus lutchuensis substitutional communities. Pines, firs, juniper, wax trees, hemp palms, cycads, bamboos, bananas, and ferns are found in the northern region. The southern third of Okinawa includes several weed communities and M japonica sinensis-zoysia communities. mountain tea flower and tree ferns are found in the southern region, as well as mangrove swamps in undisturbed areas.

The vegetation on Okinawa varies from tropical at sea level to subtropical at elevations above 1,300 feet. Even at lower elevations however, the climate is not wet enough to support the rain



SCALE OF WIND DIRECTION PERCENTAGE

DIRECTIONAL WIND ROSE AT COURTNEY
FIGURE D-4

forest type growth of the true tropics. Both trees and shrubs are relatively small, and the natural cover is difficult to penetrate. In the limestone areas especially, normally tall trees are stunted by lack of water, and twisted and bent by winds. Many native forest stands in the south were destroyed during the Battle of Okinawa (1945) and in the north by overcutting.

2. FAUNA

A. LAND MAMMALS

There is the usual assortment of domesticated animals in Okinawa. Additionally, there are Japanese deer, mongooses which have been imported, and the indigenous Ryukyu wild pig and Amami black hare. There are also many types of rats, mice and bats.

B. REPTILES AND AMPHIBIANS

There are, at least, five species of venomous snakes on Okinawa. All are locally called "habu". There is also a marine snake with poisonous fangs, as well as several species of non-poisonous snakes. There are also frogs, toads, geckos and several species of turtles.

C. BIRDS

There are many varieties of land and sea birds on Okinawa, from sparrows and finches to ducks and herons.

D. ENDANGERED SPECIES

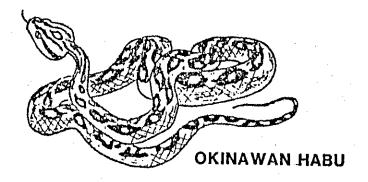
The latest published list of Endangered and Threatened Species pursuant to the Endangered Species Act of 1973, as amended, appear in the Federal Register of July 20, 1983. Three Okinawan species appear in the list:the Triomote cat (Felis [Mayailurus] iriomotensis), the Ryukyu sika deer(C nippon keramae), and the Ryukyu rabbit (Pentalagus furnessi). None of these species are found on the main island of Okinawa. No plant species from the Ryukyu Islands appear in the list of endangered and threatened plants.

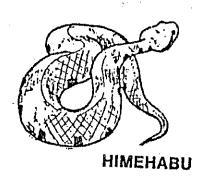
Plants and animals of the Ryukyus regarded by the Japanese Government as cultural assets are discussed in paragraph 1k.

E. AQUATIC BIOLOGY AND MARINE RESOURCES

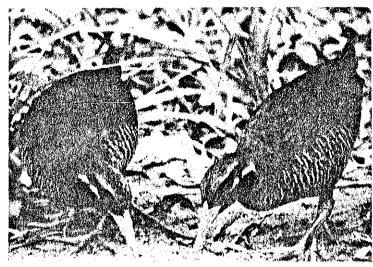
Freshwater fish populations on Okinawa are scarce, particularly in central and southern Okinawa where urban and agricultural activities have disturbed aquatic habitats. However, Okinawa is known for its diverse and plentiful marine resources. The mixing of the plankton-rich warm Kurochio current and the cool northern waters produces excellent fishing grounds. Tuna, marlin, swordfish, squid, cuttlefish, octopus, echinoder, shellfish, and seaweed are commonly harvested from offshore waters.

Coral reefs surround the island of Okinawa. Reef areas have been damaged by silt associated with upland development and runoff. The Crown of

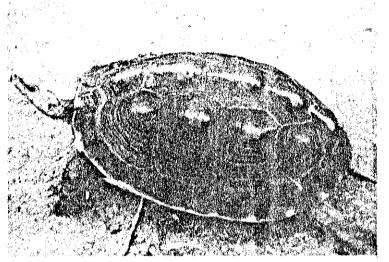




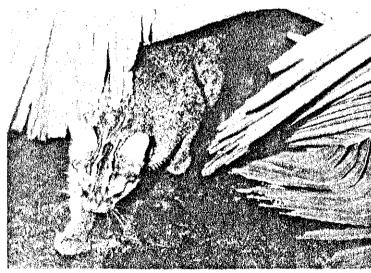




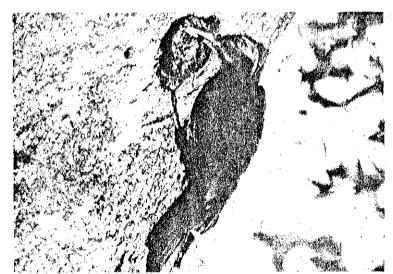
YANBARU KUINA (North Okinawa)



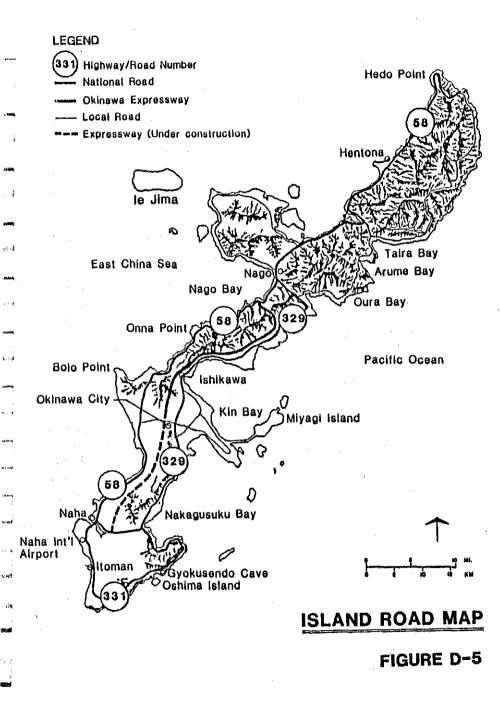
RYUKYU YAMAGAME TORTOISE (North Okinawa



IRIOMOMOTE WILDCAT (Iriomote Island)



NOGUCHI GERA WOODPECKER (North Okinawa)



Thorns starfish (Acanthaster planci) has also contributed to periodic damage and destruction of coral reefs.

F. POPULATION AND EMPLOYMENT

The population of Okinawa Prefecture was relatively stable at about 575,000 people from 1920 until 1940. During the Battle of Okinawa in 1945, some 100,000 civilians lost their lives. By the end of hostilities, another 50,000 Okinawans serving in the Japanese Armed Forces were killed. In late 1945, however, an estimated 150,000 people who had migrated to Japan or Japanese-held territories returned, offsetting the decimation of war. The total population then began increasing, topping one million people in the 1975 census.

According to the 1985 national census, Okinawa Prefecture has 1,179,116 residents, a 6.6 percent increase over 1980. The figures show there are 580,966 men and 598,150 women. Naha, the prefectrual capital, is the most populous city with 303,680 people. Okinawa City has 101,205 residents; Urasoe (near Camp Kinser) has 81,612; Ginowan (near MCAS Futenma) 69,206; and Kin (near Camp Hansen) 10,006.

G. ECONOMICS

Traditionally, the Ryukyu Islands people have been farmers and fishermen. However, since World War II, other industries have expanded faster than agriculture and its relative economic importance has decreased. The U.S.military presence in support of the Korean and Vietnam conflicts precipitated this economic change, although urbanization has continued to accelerate since reversion in 1972.

Currently, about 20 percent of the total Okinawa area is cultivated.

Traditional Okinawa fishing practices have been displaced by modern commercial operations. Tuna fleets fish as far away as the coast of West Africa. However, the fishing industry accounts for about one percent of the Gross National Product and employs only a few thousand people.

Commercial mining is limited to cement and aggregate manufacturing. Two major oil companies, Gulf and Esso, have established refineries for processing crude oil brought from the Middle East. Service and tertiary industries make up the major sector of the economy. These include wholesale and retail trade, finance and investment, real estate, transportation, communication, services and utilities. Both the U.S. military presence and a growing number of mainland Japanese tourists help support these industries.

H. TRANSPORTATION

1. LAND TRANSPORTATION

Land transportation on Okinawa is by highway vehicle except occasionally in the rural areas, where horses, water buffalos and tractors are sometimes used to draw a variety of vehicles. By the time of reversion in 1972, there were over 2,000 miles (3,200 km) of roads, both hard surfaced and coral surfaced. Some additional roads (such as the 15-mile long (25 km) Okinawa Expressway) and a 3-mile (5 km) causeway to Henze and Miyagi Islands have been built since, but the major efforts have been in upgrading existing roads. All major coast and cross-island roads are now hard surfaced. Figure D-5 shows the major roads and highways on Okinawa.

2. AIR TRANSPORTATION

Five scheduled airlines service Okinawa through the Naha International Airport (formerly NAF Naha). The U.S. Military Airlift Command (MAC) schedules flights between Kadena Air Base and such diverse destinations as Norton AFB, California; Yokota, Japan; Korea; and Clark Air Base, Philippines, with an average of three flights per day.

LEGEND --- Existing Proposed Water purifying plants Existing Dams BENOKI DAM Watershed FUKUGAWA DAM-NORTHERN TRAINING AREA AHA DAM le Jima ARAKAWA DAM Town **FUKUJI DAM** Nago Bay CAMP SCHWAB TRAINING AREA CAMP HANSEN USHI WATER TRAINING AREA-PURIFYING PLANT ISHIKAWA WATER PURIFYING PLANT Oura Kadena Bay Town Okinawa City* NISHIHARA WATER PURIFYING PLANT Yonabaru Town ltoman City

WATER DAMS & RELATED WATERSHEDS

FIGURE D-6

3. OCEAN TRANSPORTATION

Daily ocean passenger services is available between Naha and the outlying Ryukyu Islands as well as mainland Japan. Automobile ferry service is also available.

Ocean freight is delivered and picked up at Naha: at the old Army controlled port and the "New" Naha Harbor, 1 or 2 miles north. Shipments are either break-bulk or roll-on/roll-off containers because there are no shoreside container cranes to handle loading and offloading operations.

I. UTILITIES

1. WATER

Water resources on Okinawa have traditionally been considered adequate, except for drought periods when potable water is rationed. The island-wide water resources are controlled by two political entities. The Government of Japan (GOJ) controls most of the supply, but until recently, was providing only 30 to 40 percent of the total supply except during periods of drought, when sources controlled by the Okinawa Prefecture Enterprise Bureau (OPEB) could not provide the balance of 60 to 70 percent of demand. In these cases, GOJ would increase the allocation to 50 or 60 million gallons per day, depending on the severity of the drought.

The Fukuji Reservoir, designed and constructed by the U.S. Army Corps of Engineers in the late 1960's to hold a maximum storage capacity of 13.6 trillion gallons, is the largest source of water in Okinawa and is fully controlled by GOJ. In recent years, GOJ started construction work to upgrade the storage capacity at Fukuji to cope with projected increased demand.

The development and modernization of Okinawa has resulted in a constant increase in demand for water by the local and military population as well as the industrial sector. The average daily demand for water in 1982 was 89 million gallons against a minimum average daily supply of water of 87 million gallons.

The average daily demand for water was projected to increase to 123 million gallons by 1985 and to 140 million by 1990.

As of mid-June 1985, the actual average daily demand, however, was below 100 million gallons per day. Also, as of mid-June 1985, GOJ was providing for 60 percent of the average daily demand from the Fukuji Reservoir, with the remaining 40% of supply originating at OPEB controlled sources.

The percentage of total demand provided by GOJ controlled sources is not a fixed permanent amount. This contribution is established based on agreement between GOJ and OPEB, with periodic adjustments depending on the season and available volumes stored in the reservoirs at that particular time.

GOJ increased the storage capacity of the Fukuji Reservoir using two different techniques. First, the dam and spillway height were raised to increase storage capacity. Second, the outlets of four new reservoirs were designed to empty directly into Fukuji reservoir. The completed reservoirs are Arakawa, Aha, Fukugawa, and Benoki, with a combined available raw water supply of 127 million gallons per day.

By 1990, the GOJ plans to increase the average daily water supply to 165 million gallons per day by improving the Hijagawa water supply and constructing additional dams at Heinan, Okukubi, Haneji and Kanna.

The OPEB controlled water resources consist of the Tengan, Kin, and Sukeyama Reservoirs, the run off from a few drainage ditches or streams which is collected during and after rainstorms (if the reservoirs are not overflowing), and deep wells (they have some inside Kadena Air Base).

The possibility of obtaining ground water in other areas south of Kadena has been explored but the treatment of quantities and quality of water available has been determined not to be cost effective. Presently, only a few gasoline service stations are using water from wells to wash automobiles.

6 3

The OPEB will not consider treating water from drainage ditches and streams within the heavily populated southern portion of Okinawa. The storm drainage systems in the southern portions of Okinawa is highly contaminated by industrial and household wastes. The quality of potable water generated from these sources would be poor when compared with existing OPEB and GOJ sources. Except for Camp Schwab, the Northern Training Area (NTA), and portions of Camps Foster/Lester, potable water provided to U.S. Bases on Okinawa by municipalities is from OPEB's distribution lines.

The water supply at NTA consists of a small stream intercepted and treated in a new water treatment plant constructed in 1984 and pumped into a pressure tank inside the plant.

Figure D=6 shows the water dams and related watersheds on Okinawa.

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D. 19

Typical water treatment includes coagulation, flocculation, clarification, filtration, pH adjustment and chlorination. The normal water supply to Camp Foster and the Air Station originates at the Koza Water Treatment Plant (Tybase) in the northeastern side of Kadena Air Base. However, to preclude complaints from the local population on the differences in hardness level of potable water produced by different treatment plants, water from different plants is mixed in an attempt to provide a uniform quality to all municipalities.

2. SEWAGE

The Okinawa Perfectural Government and Municipalities south of Kadena operate and maintain local sewage treatment plants and collection systems. Camps Hansen, Courtney and Schwab operate and maintain Marine Corps owned sewage treatment plants, constructed by the Government of Japan during the early 1980's. These plants are adequate for present and future requirements.

3. COMMERCIAL POWER SYSTEM

All of the island power is provided by the Okinawa Electric Power Corporation (OEPC), as shown by Figure D-7. OEPC has four power plants with the following capacities:

TABLE D-1 OEPC GENERATORS

	NO.	CAPACITY (MW)	Total (MW)
Gushukuma	1	29.0	29
Makiminato	4	130.0	520
Ishikawa	2	125.0	250*
Kin	4	22.0	88
TOTAL			887

^{*} Note: To be increased to 406 MW in 1986, and to 562 MW in 1987.

LEGEND 132 KV OVERHEAD LINE 66 KV OVERHEAD LINE 66 KV UNDERGROUND LINE 13.8 KV OVERHEAD LINE POWER PLANT GENERATING STATION East China Kin (68MW) Ishikawa Makiminato SWITCHING STA (404 MW) Gusukuma (29 MW) ISLAND ELECTRICAL DISTRIBUTION SYSTEM FIGURE D-7

4. SOLID WASTE

Solid waste disposal throughout Okinawa is by sanitary landfill. A maintenance service contract for solid waste disposal is issued through OICC Okinawa and managed by the Camp Butler Facilities Maintenance Officer. It requires proper disposal of solid wastes.

J. LAND OWNERSHIP

The singularity of Okinawan real estate lies in the subdivision of privately owned land divided into often minute fragments of varying shapes. For example, at one time, the U.S. held, under private lease arrangement, approximately 51,000 acres which consisted of about 139,000 separate parcels belonging to some 38,000 different landowners. Land utilization studies conducted by the Japanese Government in the 1970's indicate that most of northern Okinawa is covered by forest and scattered cultivated areas while most of southern Okinawa is characterized by cultivated and built-up (urbanized) areas, with paddies, scrublands and grassland scattered throughout the island. Land use on Okinawa is illustrated by Figure D-8.

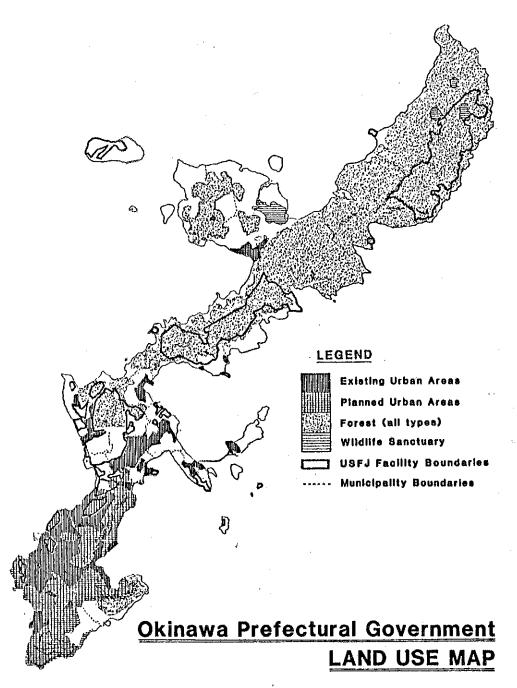


FIGURE D-8

K. CULTURAL PROPERTIES

The Cultural Properties Protection Law of April 1974 designates Historic Sites, Places of Scenic Beauty and Natural Monuments throughout Japan which are worthy of protection. Standards for the Historic Sites designation include shell mounds, ancient burial mounds, palace remains, Shinto shrine and Buddhist temple remains, checking station remains, etc., which are of scientific value in appreciating the history of Japan.

The "Places of Scenic Beauty" designation includes bridges, gardens, mountain torrents, beaches, mountains, etc., which are of scientific value or excel in scenic beauty.

The "Natural Monuments" designation includes animals (and their habitats) which are well known or unique to Japan. Flora designated as natural monuments include rare trees, giant trees, primeval forests, alpine flora zones, boundary areas for the distribution of flora, etc. Geological features and minerals which are designated natural monuments include rocks, minerals, dykes, river and marine erosional features, limestone topography, lava caves, thermal springs, etc.

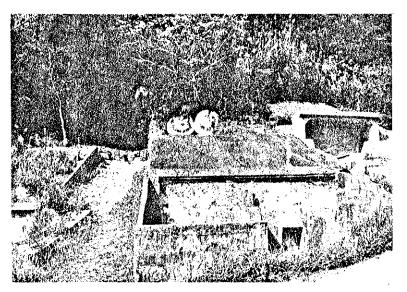
Eight animal species designated as National or Prefectural natural monuments for central and northern Okinawa islands are listed in Table D-2. Natural monuments which are known from other islands of the Ryukyus are not listed here, but are described in various publications of the Okinawa Prefecture Education Commission.

Natural parks are those parks which have been designated under the provisions of the Japan National Park Law. Three classes are designated, depending upon the degree and scale of scenic beauty: National Parks (NP); Quasi-National Parks (QNP) and Prefectural Parks.

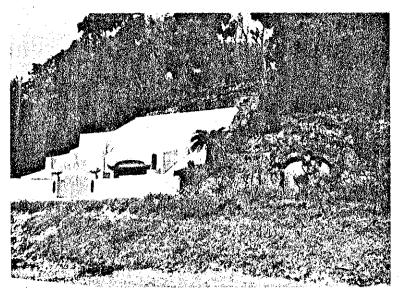
Okinawa island has two Quasi-National Parks. The larger QNP includes most of the western shoreline of central and northern Okinawa (Okinawa Kaigan QNP) while the smaller includes the southernmost tip of the island (Okinawa Senseki QNP). A national park has been designated south of the main island of Okinawa (Iriomote NP). Numerous public (City) parks are also found on Okinawa.

There intangible many elements which contribute to Okinawa's unique and interesting culture. Some of these could be considered relevant to projects involving wooded areas, streams or other natural areas. Ancient customs often involved veneration of hearth deities and of sacred groves, trees, streams and mountains which were associated with good spirits. Potable water was particularly important to the early Okinawans, and the attribution of divinity of springs and fresh streams is still common. Many of Okinawa's religious beliefs still emphasize love of nature and harmony with the sun, moon tides, storms, trees and hills. These are also expressed in song, dance and oral history.

Tombs are conspicuous and culturally significant elements of the Okianwan landscape. Because of their increasingly important significance as cultural constraints (see Section F), a brief description of tombs and other archeological landscape features is provided as Appendix L-5.



TOMBS AT SOUTH CAMP COURTNEY



"TURTLE-BACK" TOMBS

TABLE D-2 NATIONAL AND PREFECTURAL CULTURAL ASSETS ON OKINAWA

Level	Category	Name	Location
Natl,	Historical Site	Ruins of Agena Castle	Gushikawa City
Natl.	Historical Site	Iha Shellmound	Ishikawa City
Nat1.	Natural Monument	Kenaganezumi (Rat)	Northern Okinawa
Natl.	Natural Monument	Noguchi gera (Woodpecker)	Northern Okinawa
Natl.	Natural Monument	Dugong	Waters off Ryukyus
Natl.	Natural Monument	Akahige (Bird)	Okinawa & Yaeyama
Pref.	Historical Site	Ruins of Tha Castle	Ishikawa City
Pref.	Natural Monument	Futao-chu (Butterfly)	Okinawa Is.
Pref.	Natural Monument	Konoha-cho (Butterfly)	Okinawa, Ishigaki, Iriomote
Pref.	Natural Monument	Togenezumi (Rabbit)	Northern Okinawa
Pref.	Natural Monument	Ryukyu Yamagame (Tortoise)	Northern Okinawa
	•		4

From "Cultural Assets of Okinawa" by the Education Commission of the Okinawa Prefecture, 1975.

2. NATURAL FACTORS

A. LOCATION

Camp Schwab (Facility Number 6009) and Henoko Ammunition Storage Area (Facility Number 6010) are situated along the eastern coastline of northern Okinawa in the jurisdiction of Nago City.

B. PHYSIOLOGY

Topography at Camp Schwab and Henoko is predominately steep and irregular. The Camp Schwab Training Area, located between National Highway 329 and a high mountain ridgeline running along the long axis of Northern Okinawa, contains many narrow ridges and deep gulches. Intermittent streams generally flow in a southeasterly direction toward the ocean. The Camp Schwab Reservoir, with a drainage basin of about 465 hectares, is located in the training area just northwest of Camp Schwab. Elevations in the training area run from about four meters at the streams to 332 meters at Mount Kushi.

Facility development occurs mainly near the shoreline where the terrain slopes are moderately level. Buildings for Camp Schwab are located on two adjacent parallel ridges and a large level area at the eastern corner of the complex.

The Henoko billeting area is located north of

the Camp Schwab cantonment, across a deep ravine and the Fukuchi-gawa (Fukuchi River) flowing from the Camp Schwab Reservoir. The billeting area is relatively level. Terrain at the magazine storage area is steep and irregular, causing the magazine locations and alignments to be non-uniform.

C. GEOLOGY

Camp Schwab is located in the northern physiographic province of Okinawa, characterized by high, rugged mountains broad, flanking deeply dissected terraces and an irregular cliffed coast. Broad bays separated by large promontories indent the eastern coast. A normal fault perpendicular to Highway 329 enters Camp Schwab from the northwest.

As shown by Plates D-1 and D-2, Camp Schwab and Henoko consist of young sedimentary deposits of Kunigami gravel overlaying moderately metamorphosed arkosic sandstone (Kayo formation). The Kunigami gravel consists of poorly bedded, sandy and clayey gravel. The Kayo Formation consists of interbedded slate, clay slate, phylitte and conglomerate. The upper part of the Kayo Formation is composed of thick sandstone beds seperated by thick sequences of clay slate and phylitte. The lower part is composed of thick to thin beds of sandstone and conglomerate with minor amounts of interbedded slate and phylitte. While fresh sandstone is dense, dark and hard,

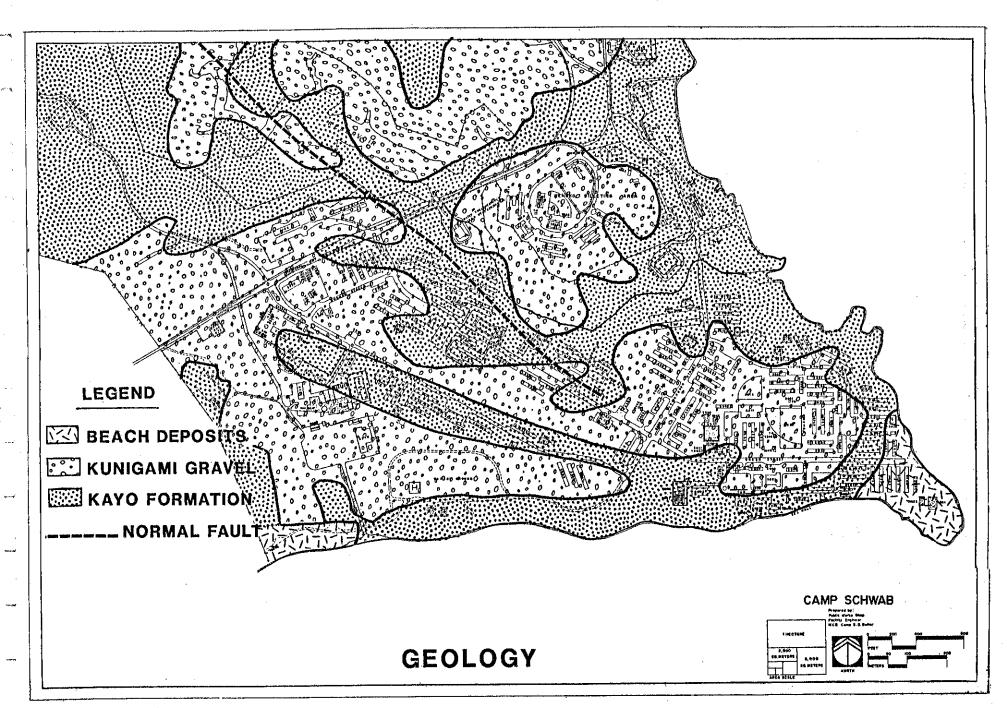
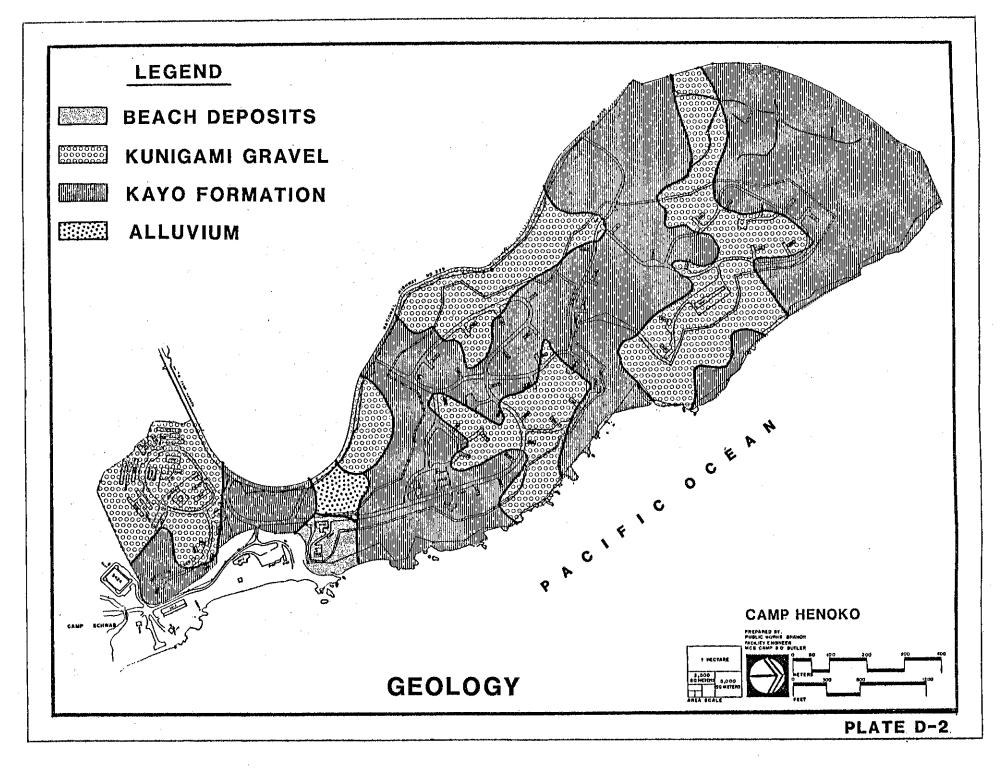


PLATE D-1



it weathers into a yellow to tan, porous, and soft rock.

D. SOILS

There are four soil units at Camp Schwab and Henoko, as shown by Plates D-3 and D-4. They are:

1. OKINAWA CLAY LOAM

Okinawa clay loam consists of dark-brown to brown crumbly clay loam, the residuum from raised-reef limestone. The surface gradient ranges from gently sloping to hilly. The soil is deep, fertile, and well-drained. Horizons are faintly developed. reaction is neutral (pH 7.0) top slightly acid (pH 6.0). Okinawa clay loam is normally well drained (through internal percolation) and the soil depth ranges from 3 to 80 feet, with a average depth between 10 to 20 feet. This soil is found at the eastern point of Camp Schwab, where surf action has deposited reef limestone ashore.

2. ISHIKAWA LOAM

Ishikawa loam consists of deep acid soils, low infertility, well drained, and found on dissected high Marine-terrance remnants. Surface run off is medium to rapid and depth to water table 20-50 feet. Thickness of soil averages is 6 to 30 feet. This soil

predominates the Camp Schwab cantonment area and Henoko.

3. AKAMARU SOIL

Akamaru Soil (80% of mixed Akamaru and Aha alluvial soils) consists of strongly mottled grayish-brown to olive-gray loamy alluvial soil developed in sediments washed from hills and mountains in the north. The soils occur on low-lying, poorly drained flood plains and coastal flats. These soils are of excellent fertility. The reaction is from slightly acid in most of the unit to alkaline locally.

The water table is at or near the surface of the ground most of the time. The present use of the soil for riceland seems to be that for which this soil is best suited.

4. AHA SOIL

Aha Soil (20% of mixed Akamura and Aha alluvial soils) consist of brown to grayish-brown, medium -textured, alluvial soils developed in recent alluvial sediments washed from the north. Fertility is excellent and reaction generally acid. Aha soils are washed mainly from phyllite and sandston, similiar to Akamaru soil, but Aha soil occurs on higher, poorly drained margins of the low-lying flood plains. Surface runoff is slow to medium, and the water table averages two to five below the soil surface. During harvest (July-November) and winter the water table may

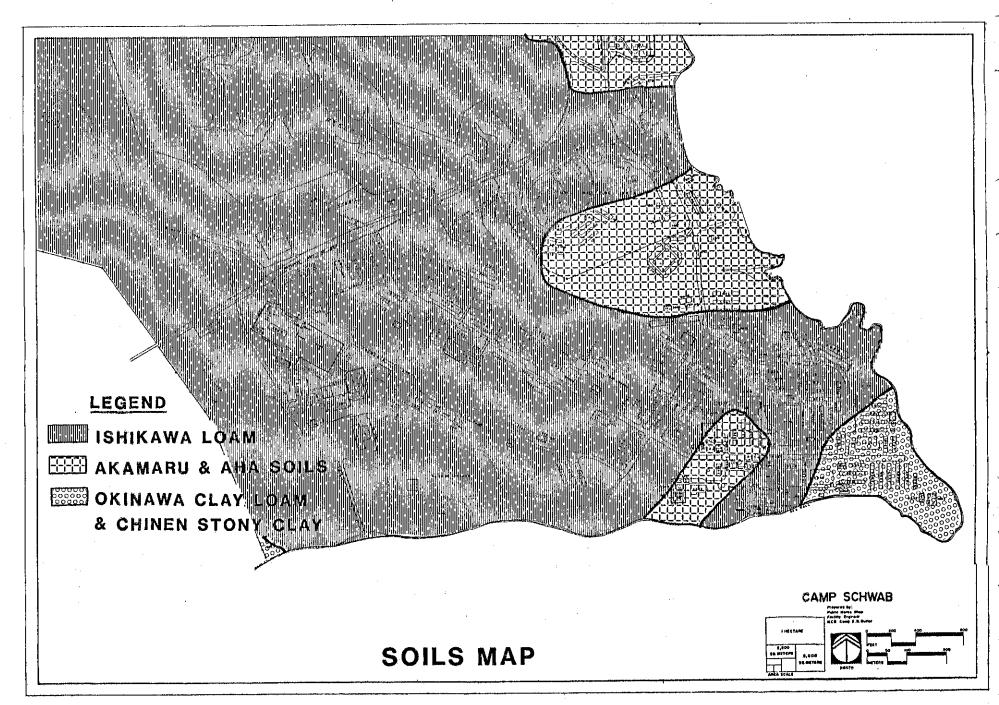
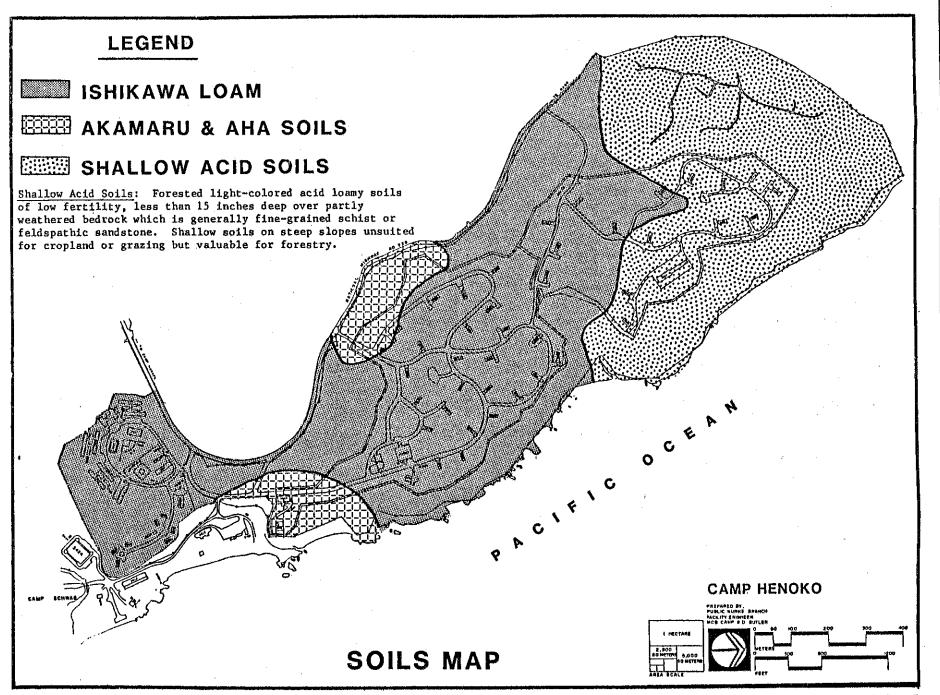


PLATE D-3



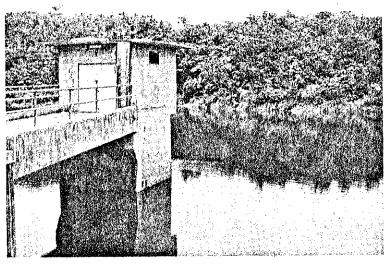
fall as low as five to eight feet. Aha soil ranges from three feet to bedrock (on colluvial terraces) to 10 feet in larger flood plains and costal flats.

5. SOIL AMENDMENTS FOR PLANTING

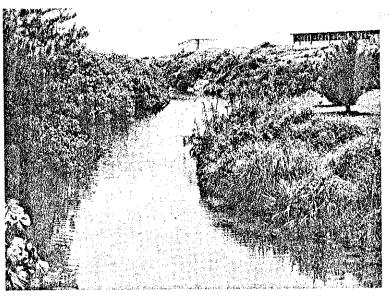
Soil analysis by the Okinawa Environmental Research Laboratory was conducted at five locations at Camp Schwab (April 1985). The pH ranged from 7.9-8.3, available phosphorous was under .01mg/100g dry soil, and exchangeable potassium ranged from .06-.10mg/100g dry soil was sand between 2.0-0.1mm particle diameter and 40% was clay with a particle diametes below .01 mm. Planting at Camp Hansen requires additional soil amendments as per Table D-3.

E. HYDROLOGY

As shown by Plate D-5, the Henoko Bushi-gawa flows through Camp Schwab, and is dammed to form the Camp Schwab Reservoir. It drains an area of 12.2 square miles, and surface drainage occurs along fault lines. The river bed is underlaid by Paleozoic sandstone and phylitte (Kayo Formation). To the south and west, the Henoko-gawa (Henoko River) cuts a steep-sloped path through sandstone and phylitte in the Schwab Training Area, emptying into a tidal flat south of the Camp Schwab cantonment area. Ground water maps for Camp Schwab and Henoko are illustrated by Plates D-6 and D-7.



Camp Schwab Reservoir



Henoko Bushi-gawa looking upstream (west)

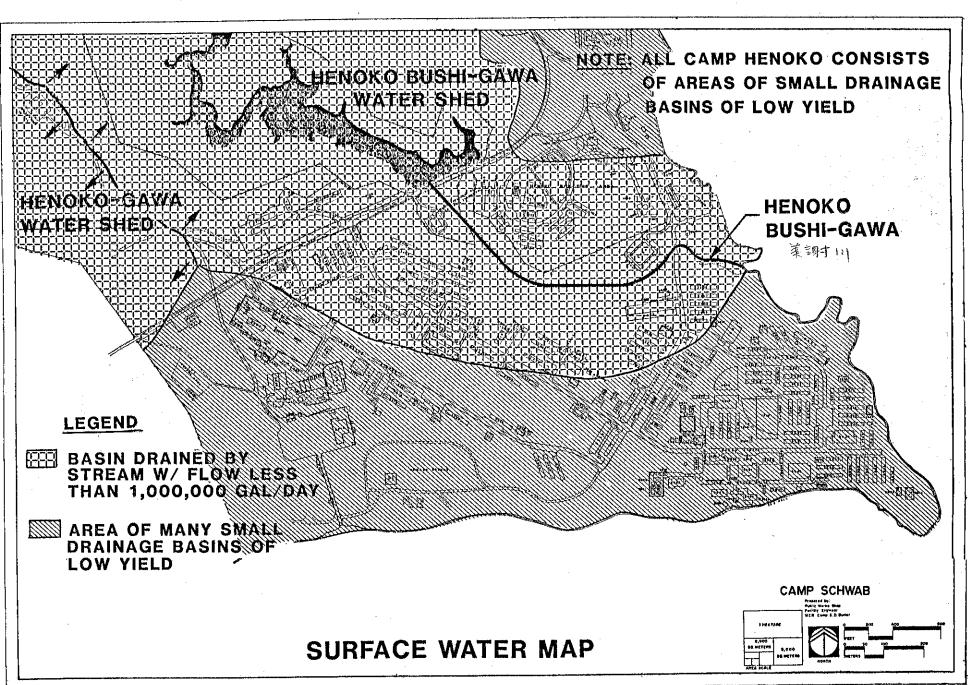


PLATE D-5

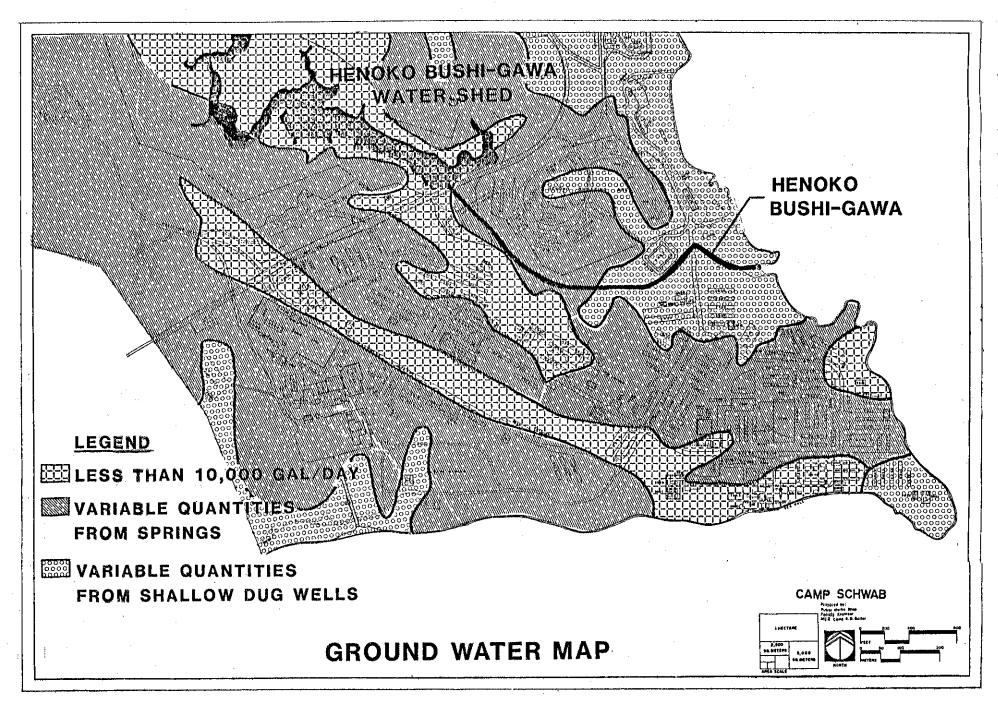
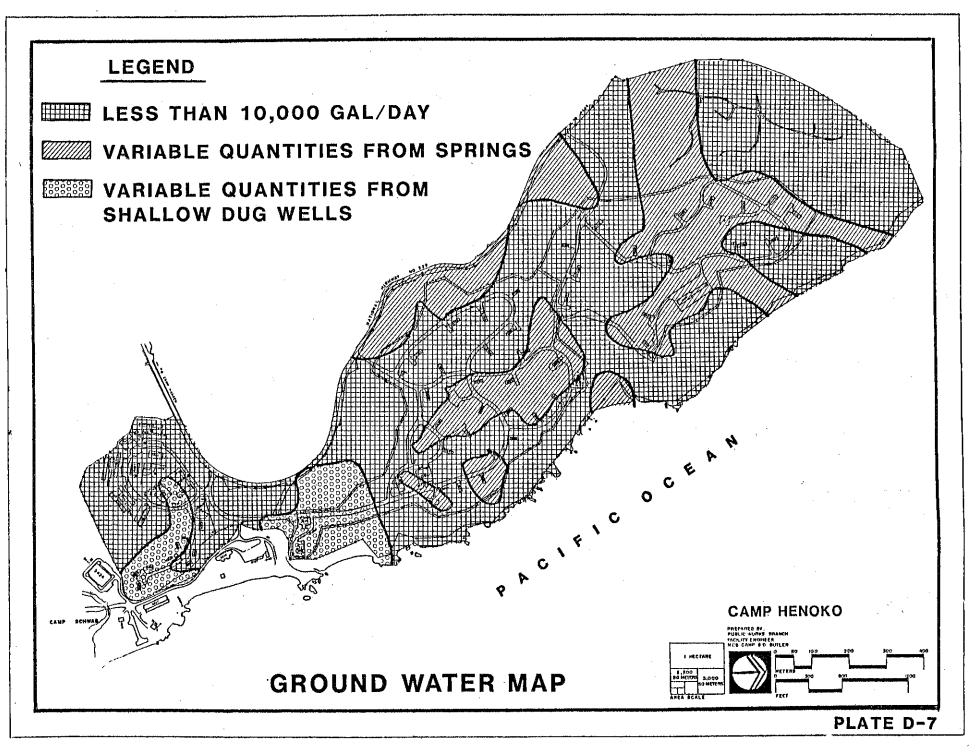


PLATE D-6



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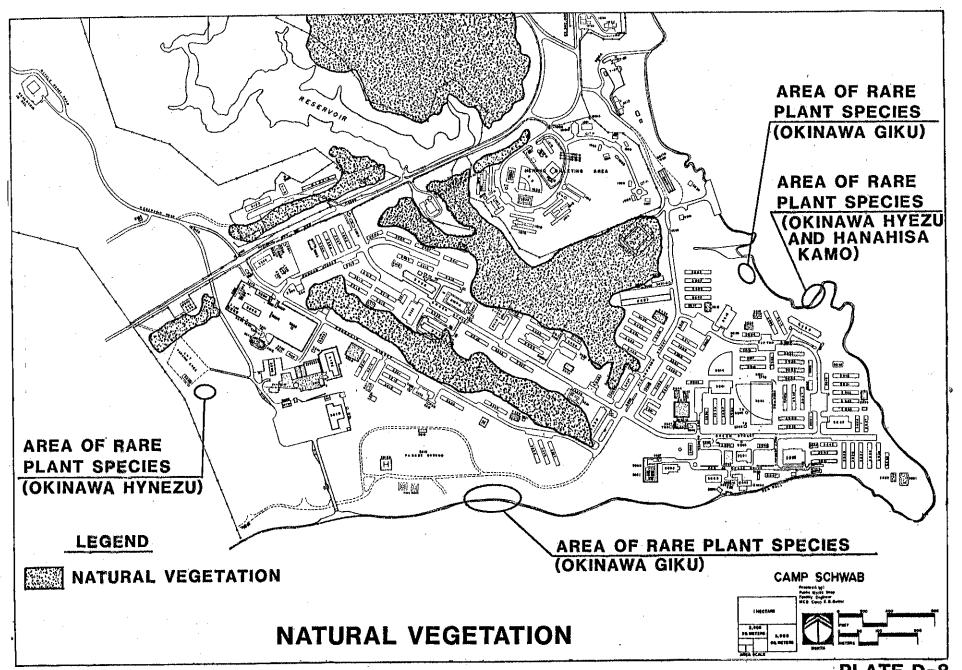
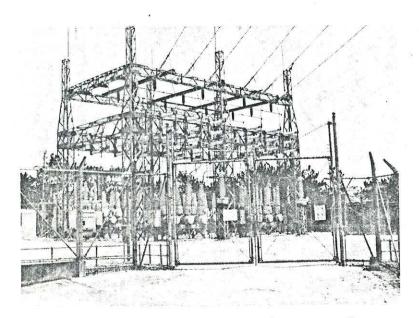


PLATE D-8

REQUIRED SOIL NUTRIENT SUPPLEMENTS

۸	Soil	Organic Soil conditioner	Fertilizer N:P:K (12:6:6)
Tree	1 m ³	80kg/ m ³	500g/ each
Shrub	1 m ³	80kg/ m ³	50g/ each

TABLE D-3



OEPC Henoko Sub-station serving Camp Schwab

F. VEGETATION

Camp Schwab is located in the northern Okinawan subregion of the evergreen broad-leaved forest zone, characterized by psychotriocastanopsion sieboldii associations. The surrounding area includes Costonopis cuspidata forest and Pinus lutchuensis substitutional communities. Areas of natural vegetation and rare species are shown by Plate D-8. A list of major species is presented as Appendix L-4.

3. INFRASTRUCTURE

A. ELECTRICAL POWER

Normally, Camp Schwab and Henoko are serviced by OEPC's 88-Mega Watt (MW) Power Plant located in the Town of Kin. However, power transmission lines are interconnected, in a loop system, and power provided at any particular time can be originated at any of the other three power plants operated by OEPC, with a total 887 MW generating capacity. Oil is presently used as the only source of fuel for the existing power Two additional generators, presently under construction at the Ishikawa Power Plant, will use coal as fuel. These two 156,000 kilowatt generators are scheduled to be on-line early 1987, and will increase OEPC's total power generating capacity to 1,199 MW by November The OEPC owned Henoko Sub-station, 1987. located at the south side of Highway 329 adjacent to the northwest perimeter of Camp Schwab, transforms the 66,000 volt (66kv)

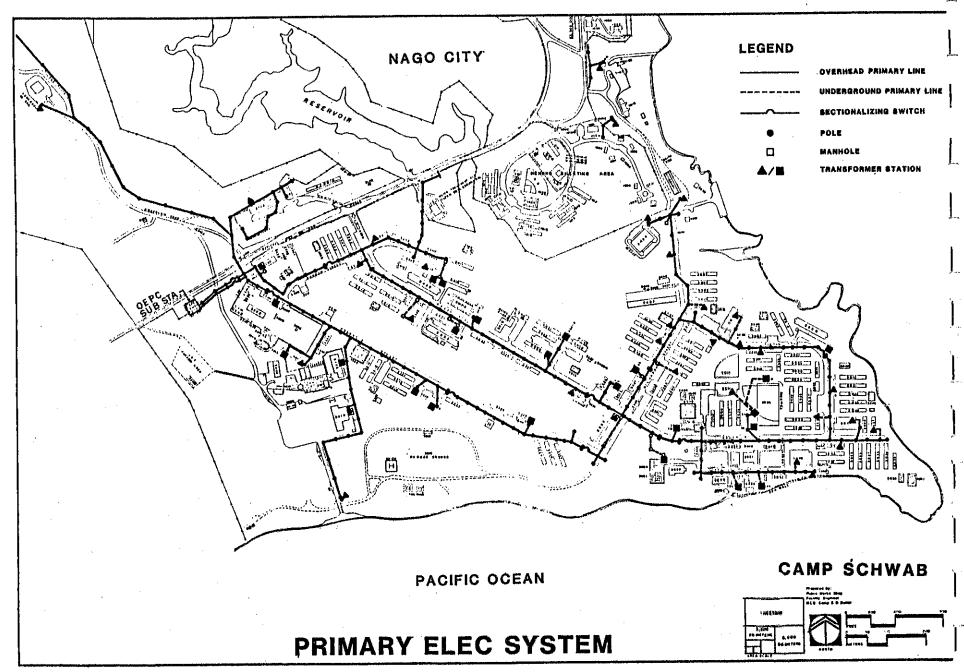


PLATE D-9

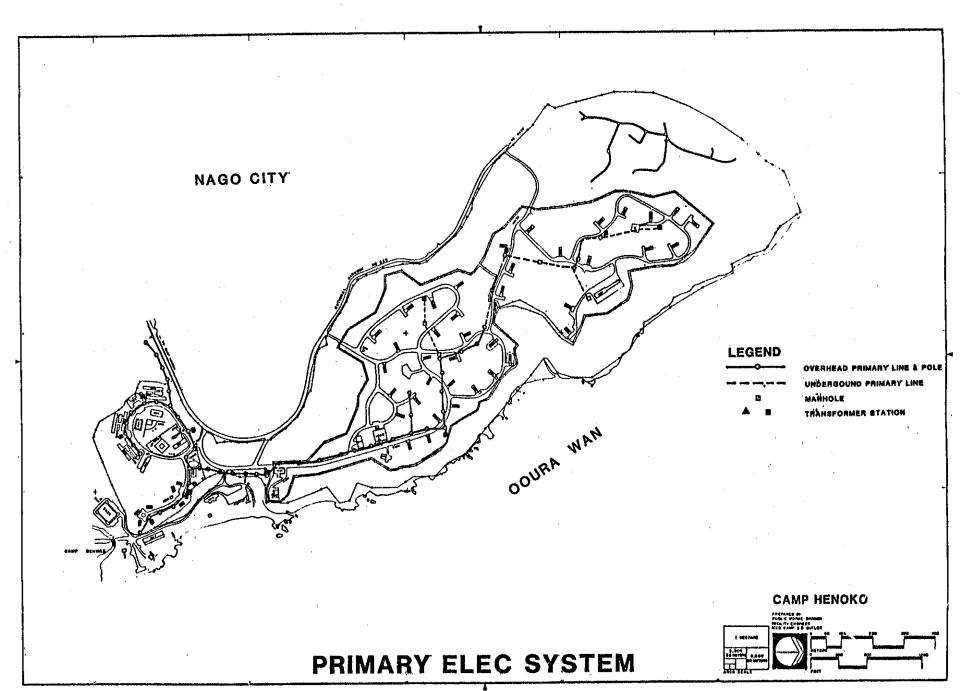


PLATE D-10

provided from the power plant to the 13.8 kv primary distribution systems in the camp. Camp Schwab has two primary power distribution systems, or "feeders". Both feeders are simple radial systems. Although of identical power characteristics, they cannot be interconnected for cross-servicing facilities in the event of failure because the only means of interconnecting these feeders are inside the OEPC owned sub-station.

Plates D-9 illustrates the Primary Electrical for Camp Schwab and Plates D-10 for Henoko.

B. WATER SUPPLY AND DISTRIBUTION

1. POTABLE WATER SYSTEM

The existing water supply system at Camp Schwab was originally constructed in conjuction with construction of the Camp for the Marine Corps. It comprises a reservoir inside the Camp's Training Area, a water treatment facility located south of Highway 29 between Henoko Billeting area and the main camp facilities, a one million gallon (1 MG) storage and distribution tank located in higher ground elevation adjacent to the "Rifle Range Road" in the Training area, a pump station within the water treatment facility, and all necessary water transmission pipelines. Upon reversion of Okinawa to Japan the reservoir, water treatment facility, 1 MG storage tank, and the

distribution pipeline connecting tank and treatment facility were released to the City of Nago. The City of Nago operates and maintains the system to supply potable water to Camp Schwab and the Village of Henoko. This is the only municipal system which has never been mandatory water subjected rationing to procedures during past drought coditions on Okinawa as normal daily demand for potable water is only approximately 55 percent of the systems daily production capacity. The amount of raw water available for treatment has always exceeded requirements and water use is limited only by actual demand for potable water. The existing 1 MG per day treatment facility generates sufficient potable water to maintain the 1 MG storage tank full, and to keep up with daily demand. Normal daily demand approximately 415K gallon by Camp Schwab and 140K fallon by the Village of Henoko. present system is adequate for existing and future requirements.

The water system for Camp Schwab is shown by Plate D-11 and for Henoko by Plate D-12.

2. NON-POTABLE WATER SYSTEM

Besides the existing reservoir, there are no existing sources of non-potable water at Camp Schwab and none are planned for the foreseeable future. Potable water is presently used for washing salt out of amphibious vehicles because construction of washing facilities to use

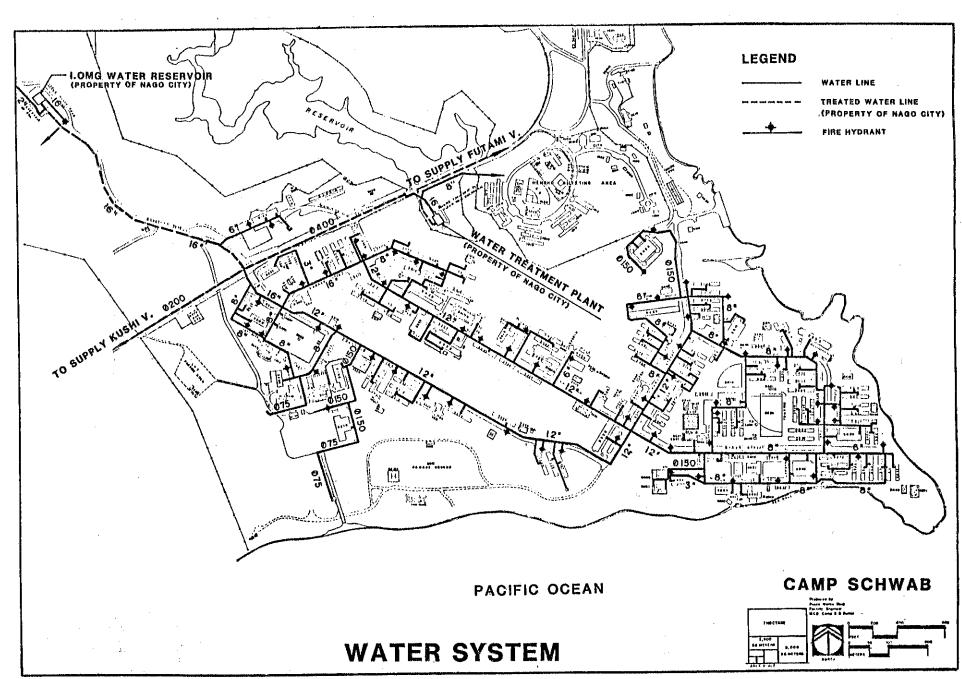


PLATE D-11

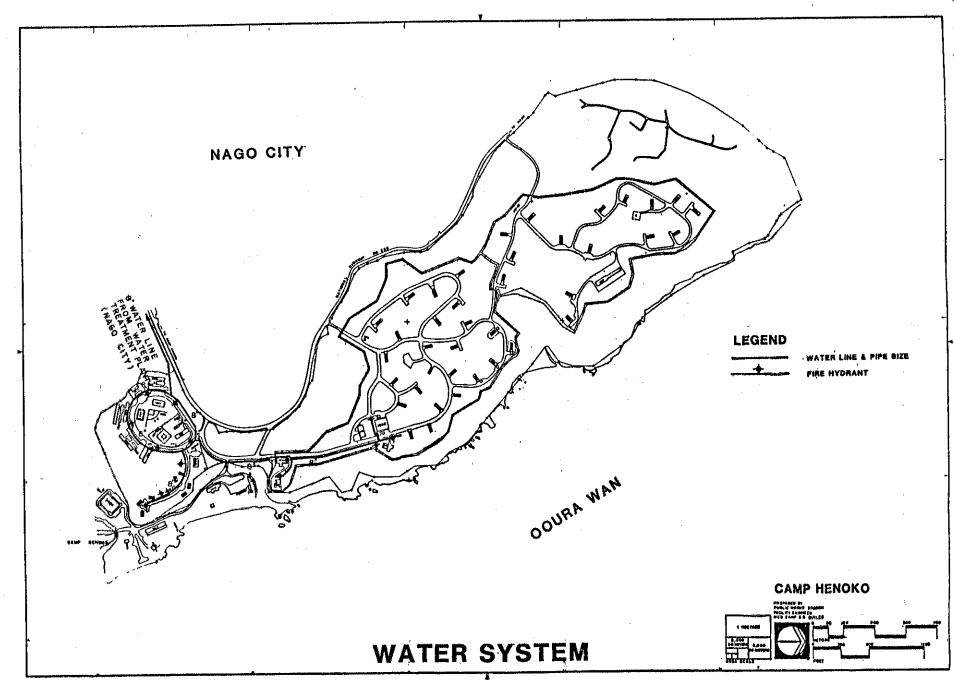


PLATE D-12

non-potable water would not be cost effective. Additionally, the need to conserve water is dictated only economic reasons. Conservation measures implemented are only to reduce expenditures for utilities.

C. SANITARY SEWER SYSTEM

Sanitary sewage generated by facilities in Camp Schwab is treated in the Sewage treatment plant (buildings 3660 and 3661) located near the southeastern perimeter of the camp. This plant, designed and constructed by GOJ in 1982, has a daily treatment capacity of 451,000 gallons and provides for secondary treatment to fully comply with GOJ environmental requirements. The system is adequate for existing and anticipated future requirements. The Sanitary Sewer System for Camp Schwab is illustrated by Plate D-13 and for Henoko by Plate D-14.

D. SOLID WASTE

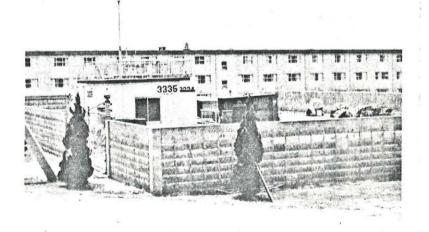
Solid waste collection and disposal is accomplished by civilian collection administered by maintenance service contract.

E. STORM DRAINAGE

No critical problems related to surface storm drainage in Camp Schwab are presently known. The Storm Drainage System for Camp Schwab is illustrated by Plate D-15 and for Henoko by Plate D-16.



Nago City Water Treatment Plant



Camp Schwab Sewage Treatment Plant (Buildings 3334 and 3335)

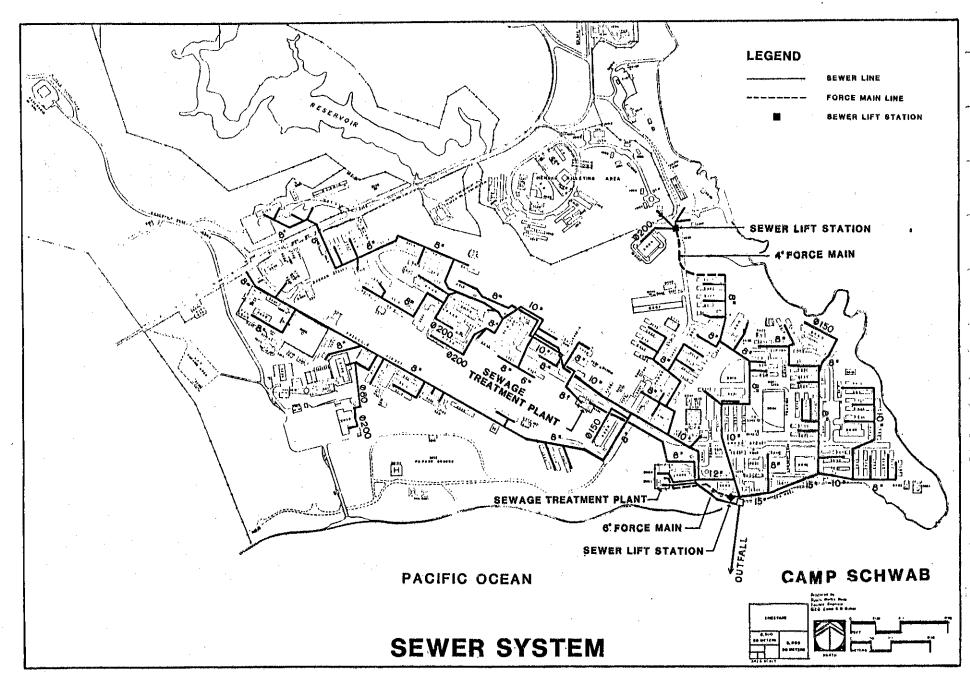


PLATE D-13

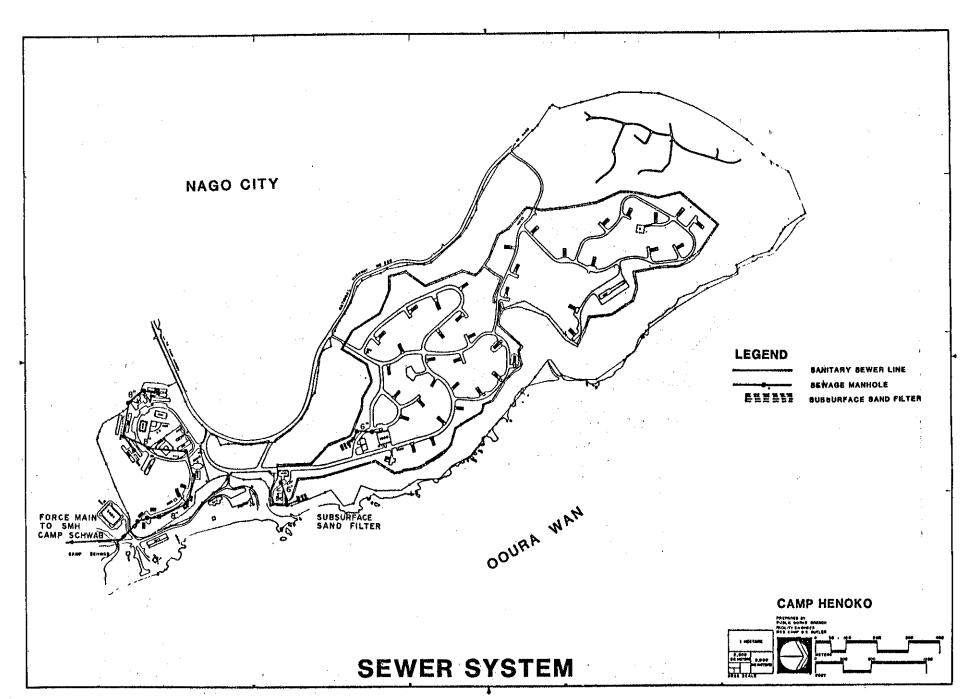


PLATE D-14

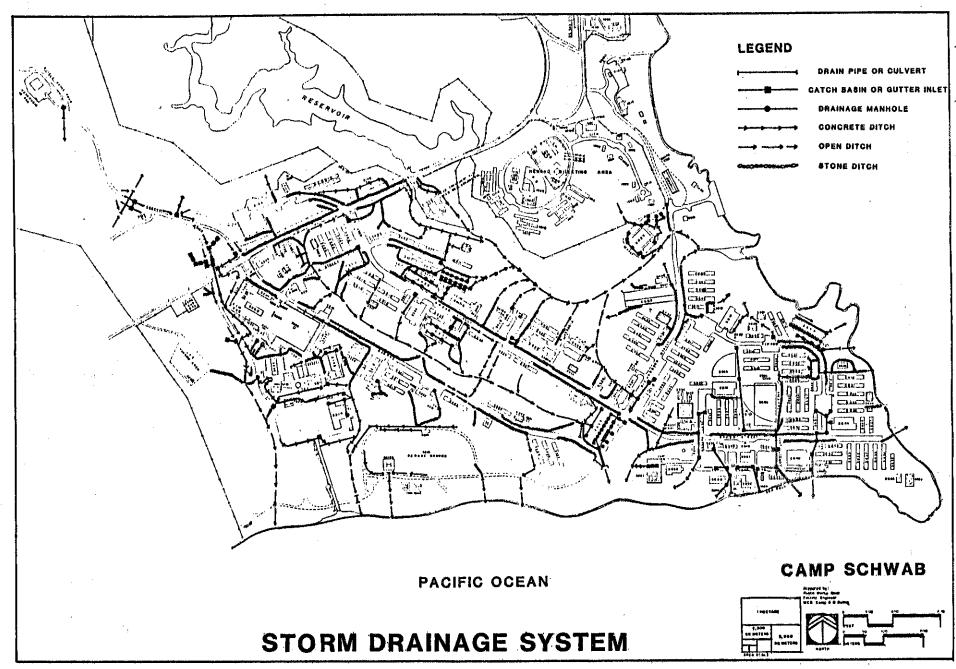


PLATE D-15

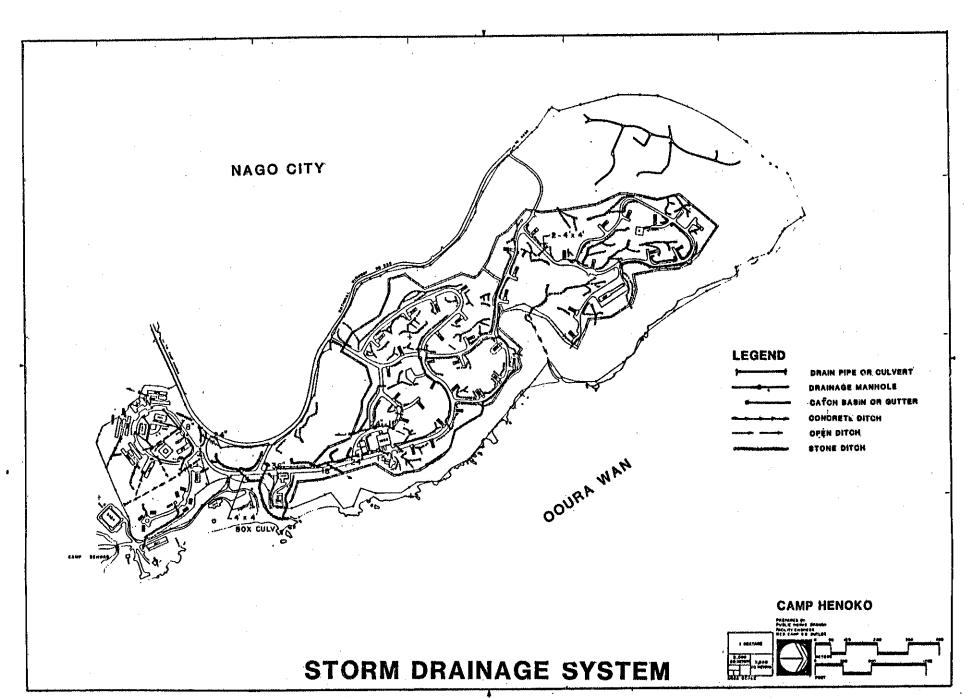
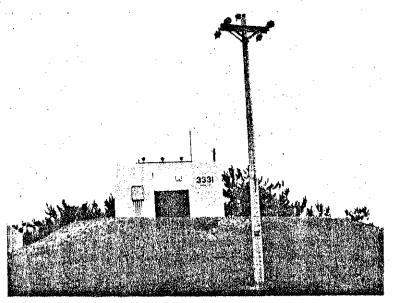
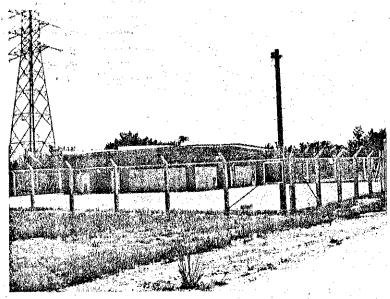


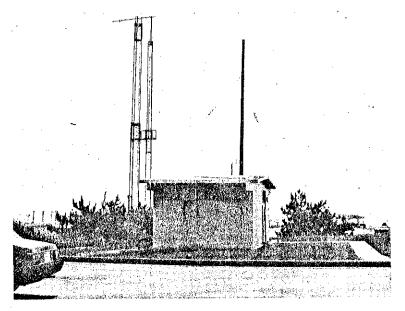
PLATE D-16



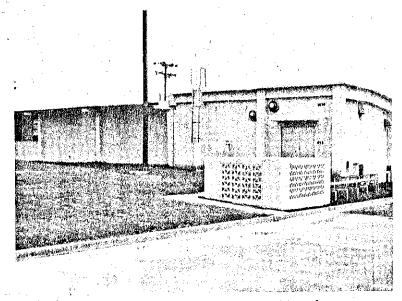
Building 3331, Transformer Station



Building 3105, Hazardous Waste Storage Facility



Building 3439, MARS Station



Building 3658, Telephone Exchange

F. COMMUNICATIONS AND ELECTRONICS

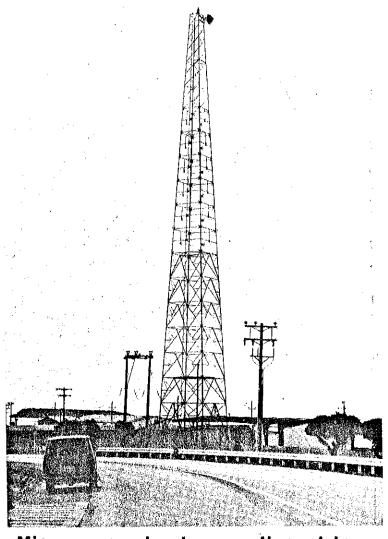
The communication system for Camp Schwab is shown by Plate D-17 and for Henoko by Plate D-18. Military telephone service on Okinawa is provided by the DOD integrated dial network (MITS)—all U.S. owned. Local telephone service for the station is provided by the Marine Corps dial central office at Camp Courtney. Overseas AUTOVON service is provided through an electronic switching system at Camp Courtney. The on-base local telephone distribution cable system is a combination aerial and underground system.

G. LAND USE AND REAL ESTATE

Camp Schwab (Facility Number 6011) contains 5,052 acres, including 126 acres of improved (paved) surface. Class I Training Areas, including the Schwab Training Area and impact area in the Central Training Area, and Schwab Water Training Areas, are depicted by Plates D-19 and D-20. Table D-4 tabulates joint use of facilities agreed to with local municipalities and other agencies.

H. BUILDINGS AND STRUCTURES

Important facilities at Camp Schwab are shown on Plate D-21 and at Henoko by Plate D-22, Base



Microwave relay tower adjacent to Telephone Exchange

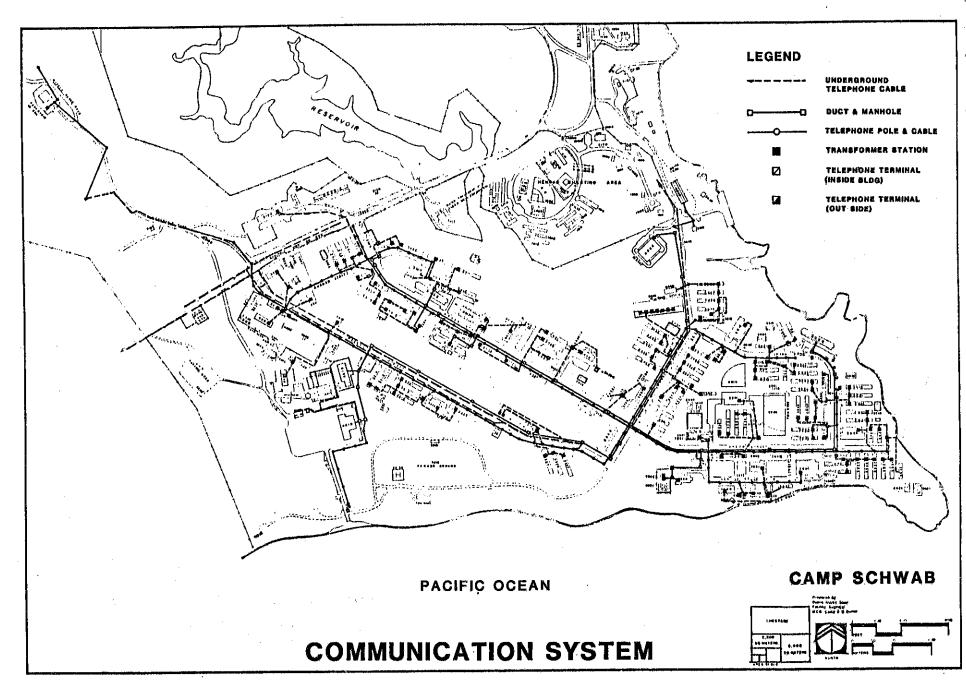
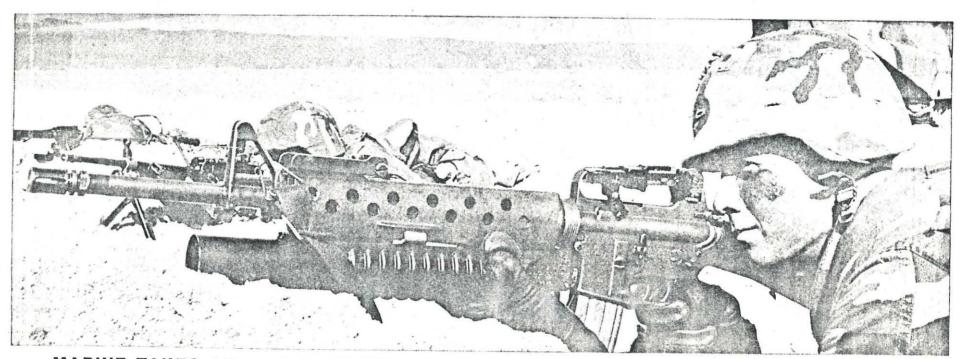


PLATE D-17

Locator Maps. Existing Land Use is depicted by Camp Schwab is serviced by two Plate D-23. gates providing entry from Highway 329. Henoko is serviced by a third entry further north. The Main Gate at Camp Schwab connects to Green Street, which acts as a transportation spine through the Camp. Flanked by BEOs for most of its length, it leads to the main Community Support Area to the east. Parallel to and west of Green Street is Franklin Street, which services the BOQ community and connects to the industrial/maintenance area in the vicinity of Gate 2. An underpass connects this area, home to the Tracked Vehicle Battalion and the 1st LAV Battaion, to the Schwab Training Area northwest of Highway 329.

An Amphibious Vehicle Ramp is located south of the industrial/maintenance area, and an LST Ramp along the east coast of Camp Schwab just south of a recreational waterfront jutting towards the Henoko Ammunition Storage Area.

In addition to the 40 earth-covered igloos, facilities in the magazine area of Henoko include a weapons maintenance building, a multi-cell magazine operations building, a dog kennel and two ordnance related storage buildings. The area provides excellent storage conditions-double fencing around the entire periphery for security, hard-surfaced roads in good condition, adequate room to allow forklift operations and light standards at all magazines for security and night operations.



MARINE TAKES AIM FROM BEACHHEAD POSITION DURING AMPHIBIOUS LANDING AT OURA WAN BEACH.

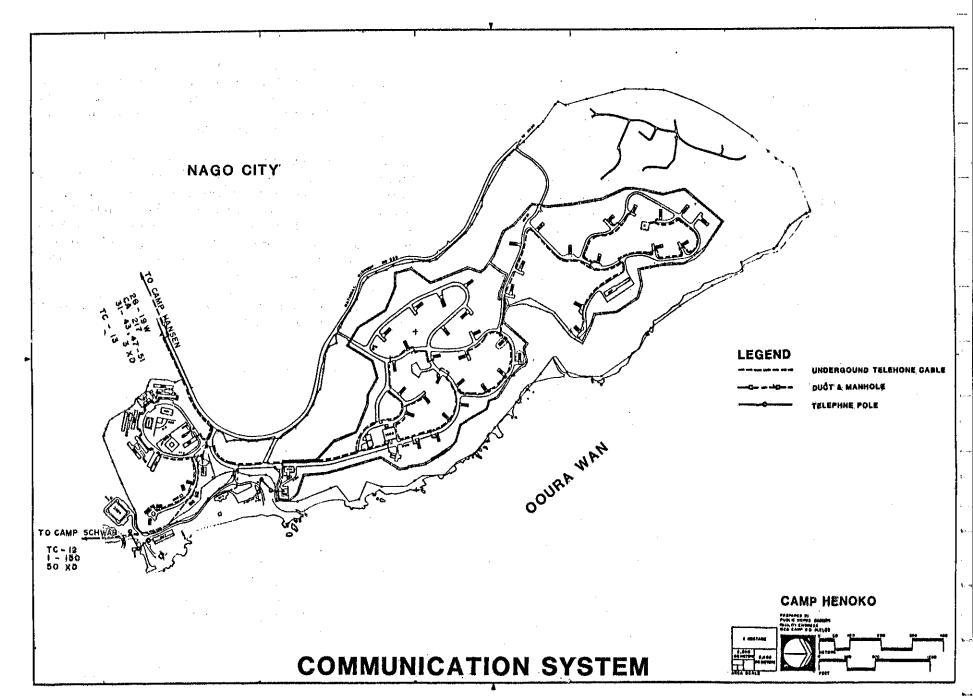
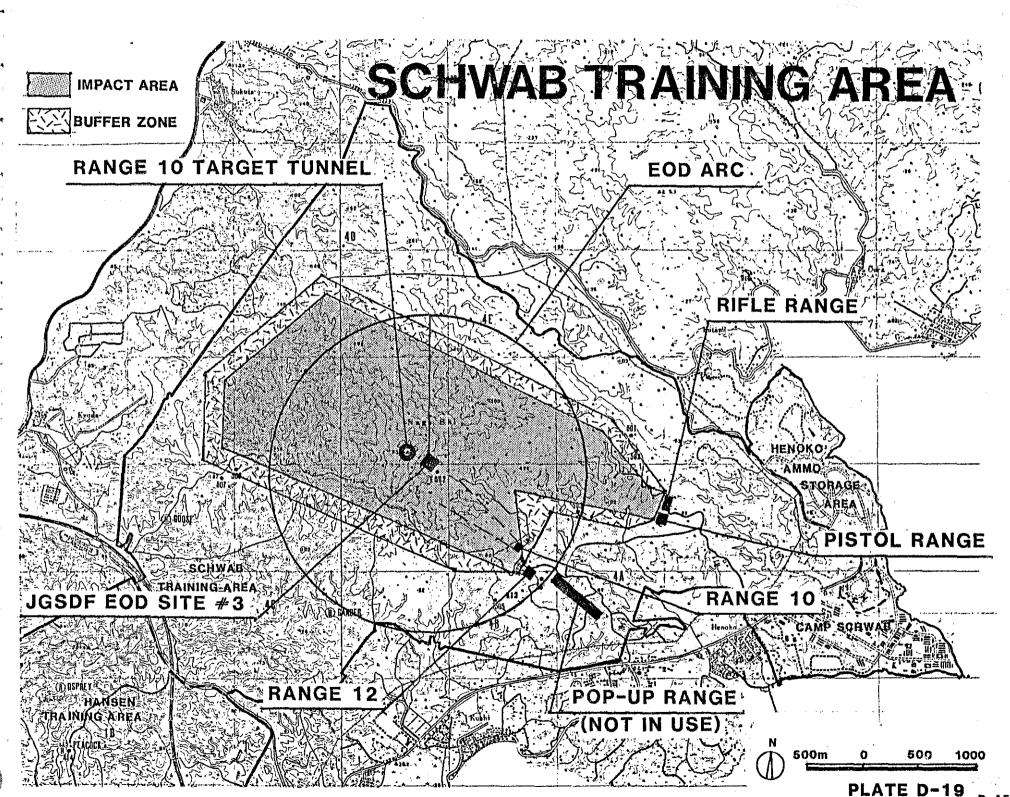
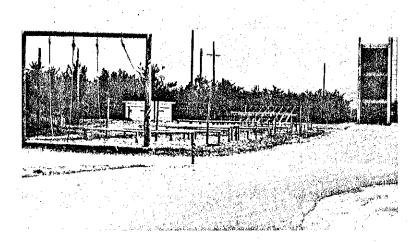
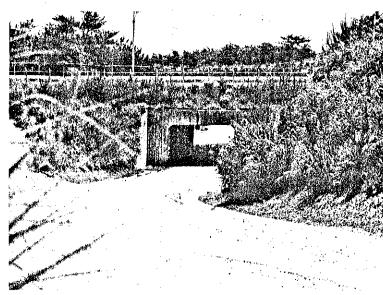


PLATE D-18





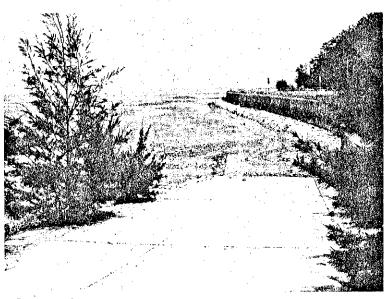
Camp Schwab Obstacle Course



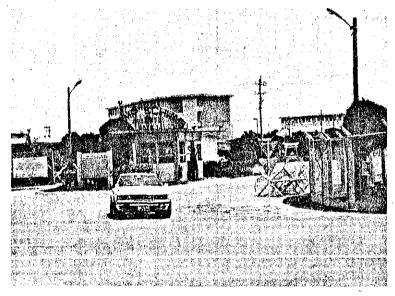
Underpass under Highway 329



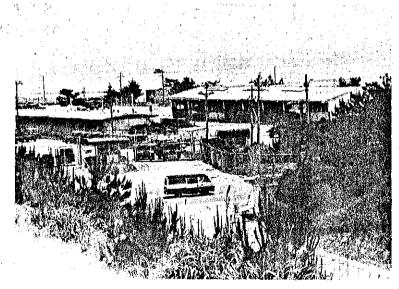
Tracked Vehicle Ramp near Katabaru



Crossing at Highway 329 into CTA at Katabaru



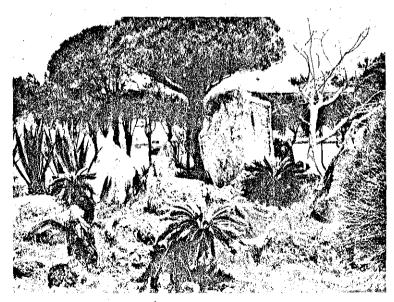
Main Gate to Camp Schwab



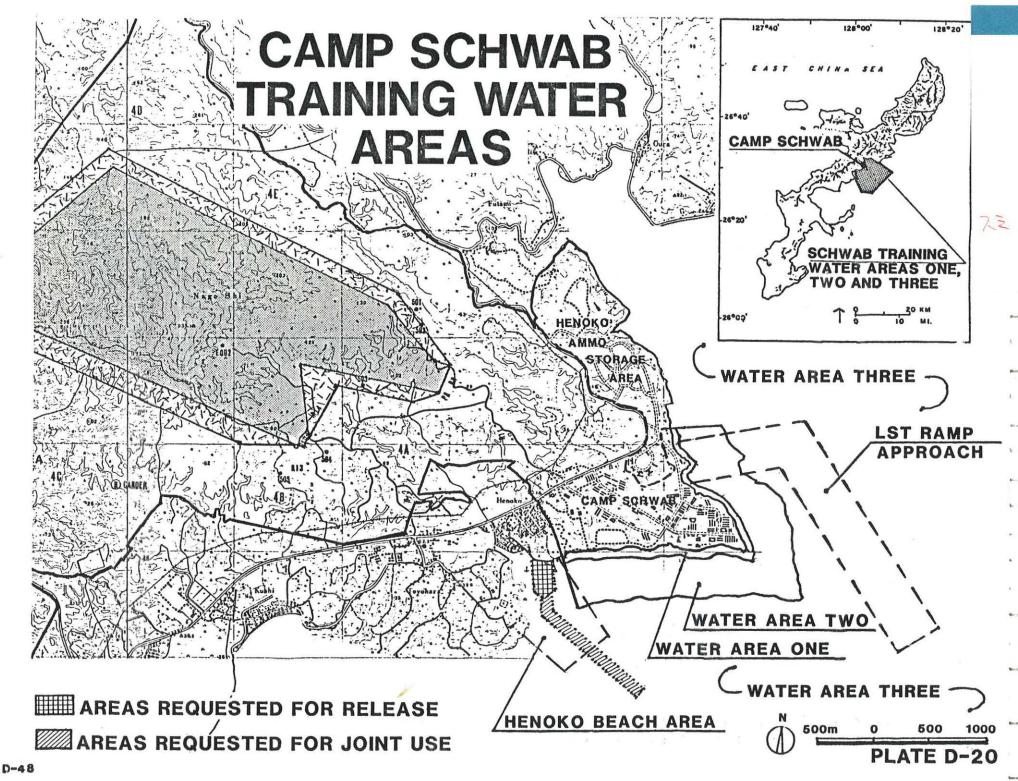
1st Tracked Vehicle Battalion motorpool viewed from across Highway 329

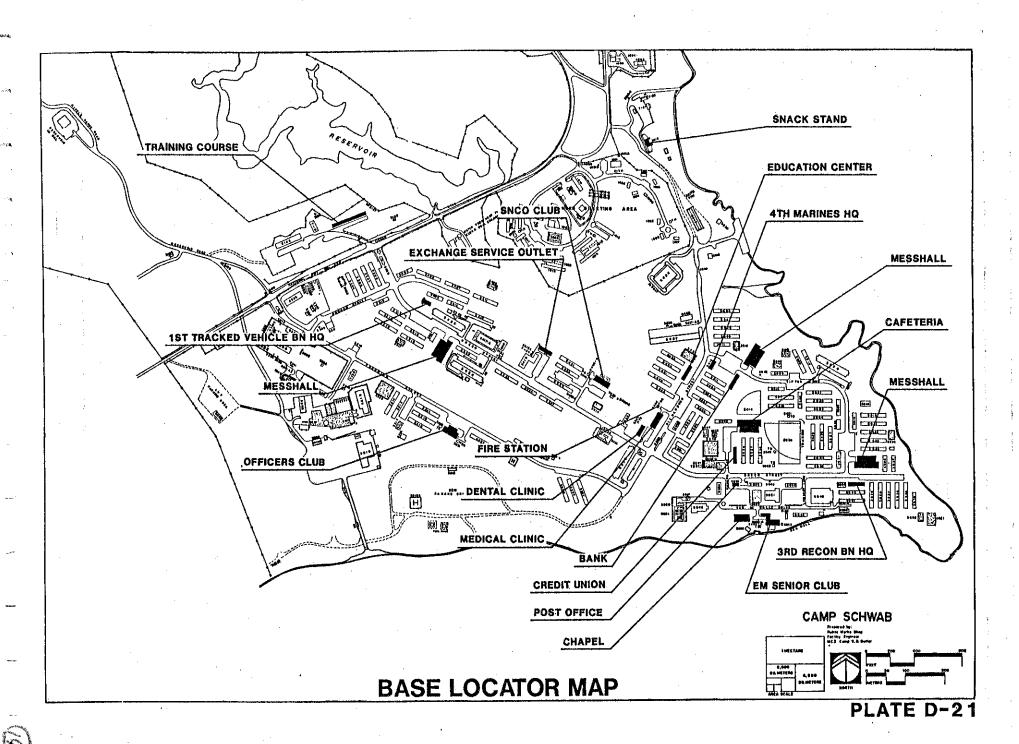


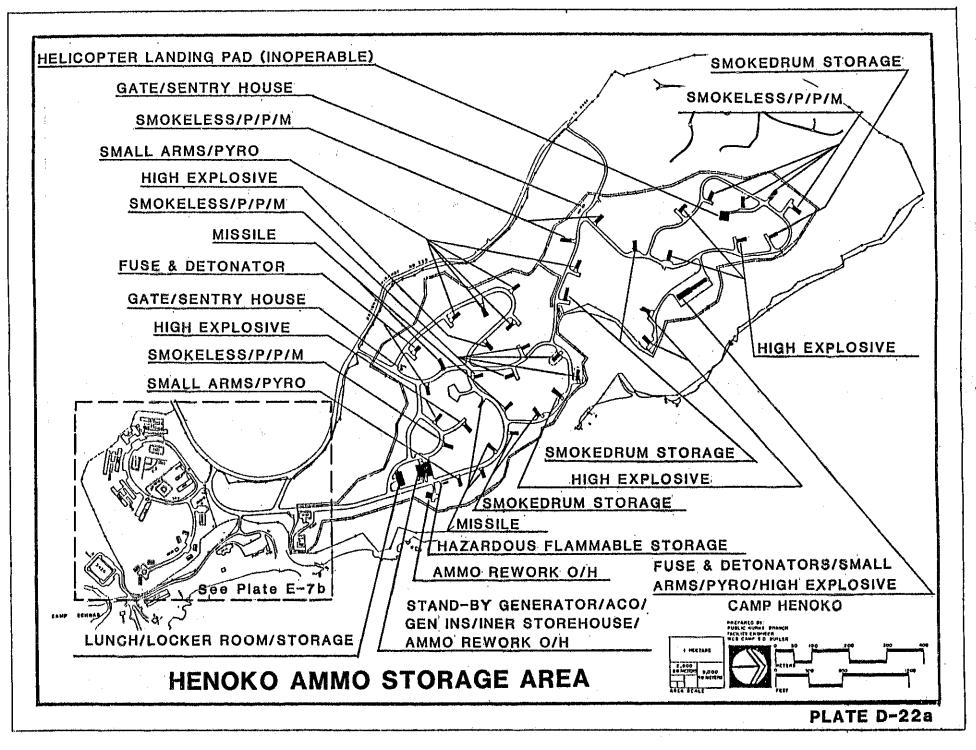
Pacific Ocean looking south from Camp Schwab

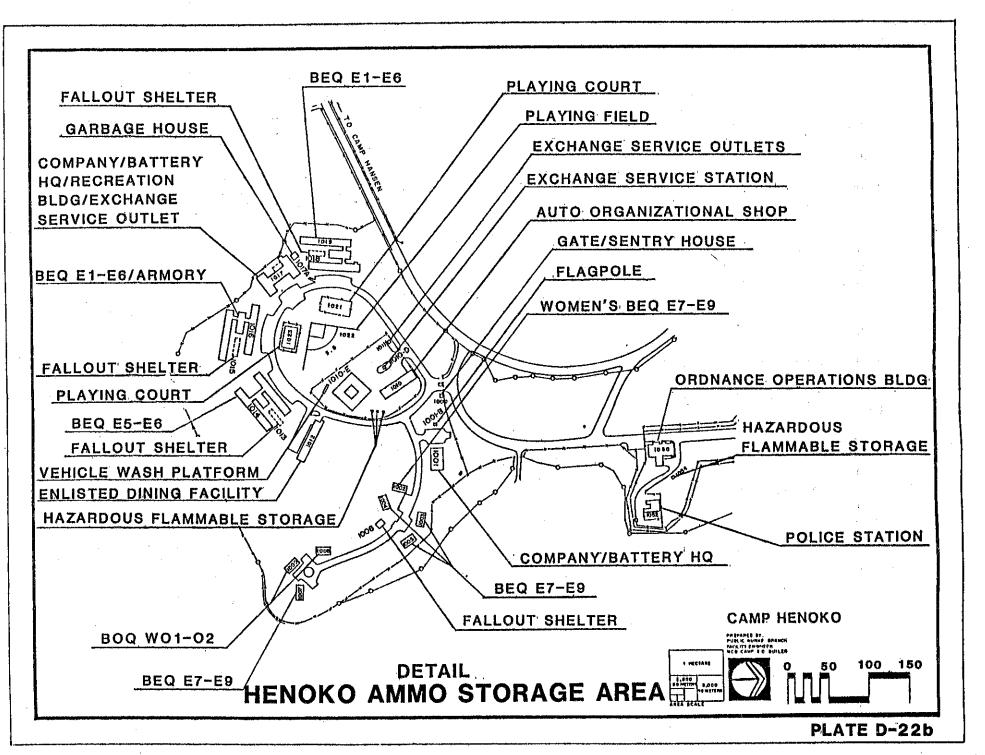


Nago City Friendship Garden on Camp Schwab proper









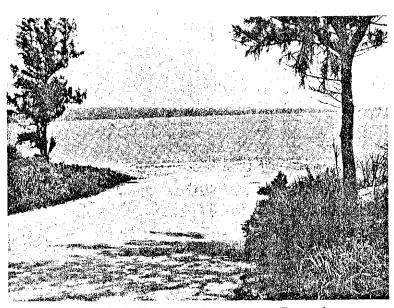
Locator Maps. Existing Land Use is depicted by Plate D-23. Camp Schwab is serviced by two gates providing entry from Highway 329. Henoko is serviced by a third entry further north. The Main Gate at Camp Schwab connects to Green Street, which acts as a transportation spine through the Camp. Flanked by BEQs for most of its length, it leads to the main Community Support Area to the east. Parallel to and west of Green Street is Franklin Street, which services the BOO community and connects to the industrial/maintenance area in the vicinity of Gate 2. An underpass connects this area, home to the Tracked Vehicle Battalion and the 1st LAV Battaion, to the Schwab Training Area northwest of Highway 329.

An Amphibious Vehicle Ramp is located south of the industrial/maintenance area, and an LST Ramp along the east coast of Camp Schwab just south of a recreational waterfront jutting towards the Henoko Ammunition Storage Area.

In addition to the 40 earth-covered igloos, facilities in the magazine area of Henoko include a weapons maintenance building, a multi-cell magazine operations building, a dog kennel and two ordnance related storage buildings. The area provides excellent storage conditions-double fencing around the entire periphery for security, hard-surfaced roads in good condition, adequate room to allow forklift operations and light standards at all magazines for security and night operations.

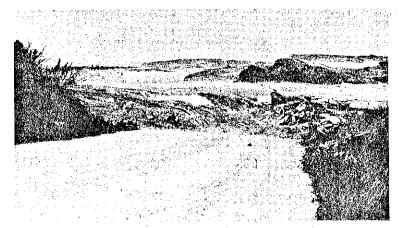
The administrative and billeting area for Henoko, although seperated from Camp Schwab by a deep ravine, is shown on the Camp Schwab maps because of its proximity.

The Schwab Reservoir, and several utility, administrative, and training facilities, lie across Highway 329 north of the Camp Schwab cantonment area.

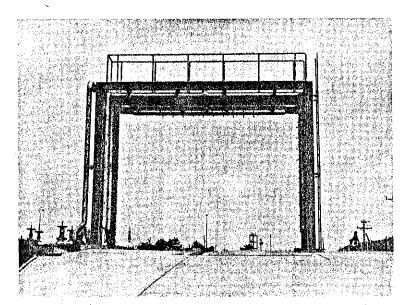


LST Ramp Access Road

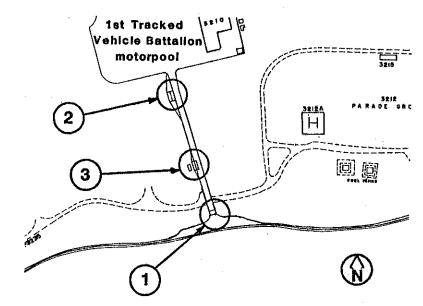
D-52



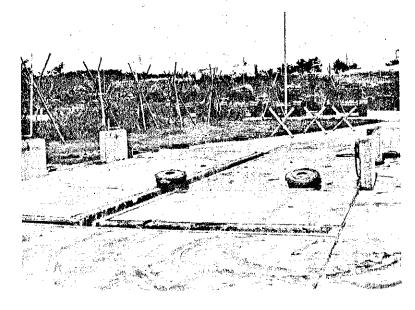
1-Amphibious Vehicle landing ramp



2-Overhead fresh water sprayer



AMPHIB VEHICLE ACCESS
TO 1ST TRACKED VEHICLE MOTORPOOL

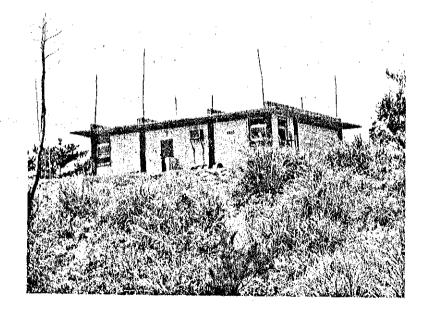


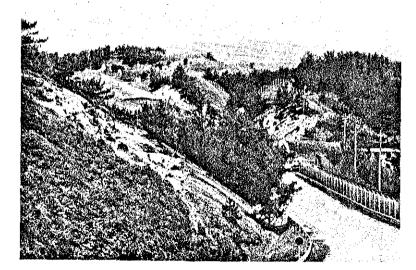
3-Under-chassis washrack

Table D-4

JOINT USE OF FACILITIES

FSC MEMO	USER	PURPOSE	AREA(M ²)	DURATION
1139	JGSDF	EOD Site #3	Approx. 7,077,000	4Dec75 - Indefinite
1463	OEPC	Comm System	Approx. 210	90ct86 - 80ct89
1464	OEPC	Elec Power Trans System	Approx. 63,600	230ct86 - Indefinite
2035	Nago-shi	Irrigation Dam	Approx. 49,000	1May86 - 300ct88
2127	Nago-shi	Water Channel	Approx. 72,000	1Jun86-Indefinite





Henoko ammo storage area looking north

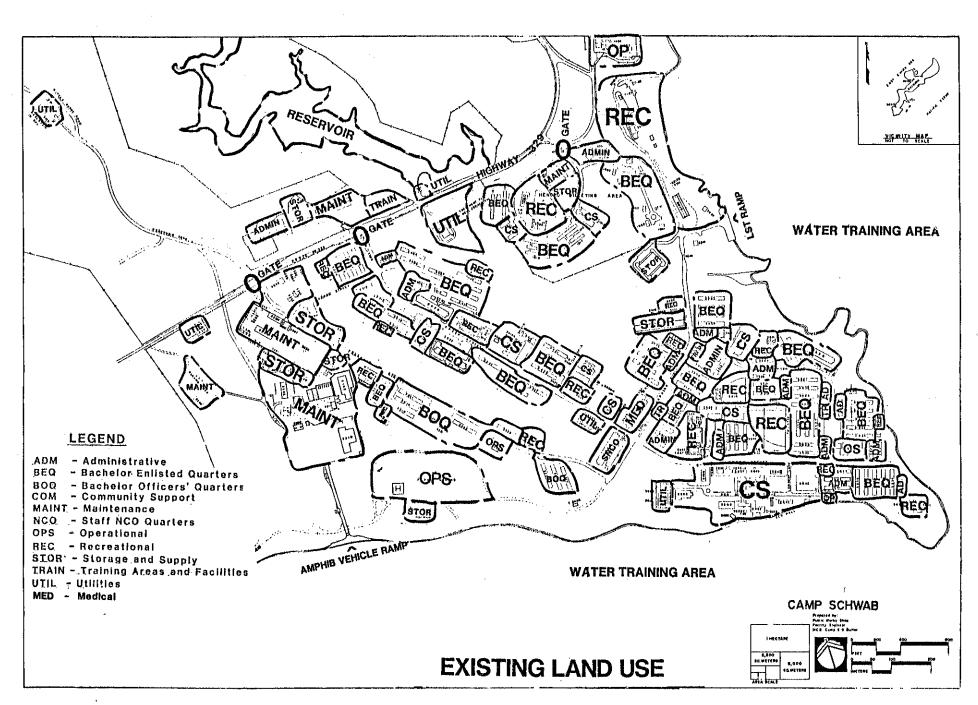


PLATE D-23

E. REQUIREMENTS ANALYSIS

1. SHORE FACILITIES PLANNING SYSTEM

An analysis of the basic programmatic needs of Camp Schwab and Henoko Ammunition Area, organizational elements and tenants, and the interaction between those elements, synthesis of planning pre-requisite to a Section provides solutions. This information through a description of each installation, missions and organizations, base loading, inter-relationships, and problem areas.

Detailed information all facility on requirements and existing assets is contained in various Marine Corps documents including the Facilities Support Requirements, Basic Facilities Requirements List, Engineer Evaluation Worksheet, Existing Facilities Worksheet, and the Activity Facilities Plan (AFP). The BFRL, as well as the Engineering Evaluation of existing assets, were updated prior to the development of this Master Plan update. While the BFRL and EE are not included in full in this Plan, they are liberally extracted or otherwise summarized to insure ready-reference, and to emphasize the legitimacy of the Master Plan as a document derived from the Shore Facilities Planning System.

A full summary is summarized in Appendix L-1 as "Shore Facilities Planning Document Summary", and includes category codes, a list of assets by

tenancy and proposed projects to resolve known deficiencies. This appendix was developed prior to the full assimilation of Marine Corps assets into the Navy Shore Facilities Planning System. As Camp Schwab and Henoko are incorporated into the Navy Facilities Systems Office (FACSCO) at Port Hueneme, California, computer-generated facilities planning documents will replace appendix L-1.

MCO P11000.12 outlines the steps of the Shore Facilities Planning System (SFPS) relative to the identification of facilities needed to perform the assigned mission, tasks and workload of activities, referred to as Basic Facilities Requirements (BFR). The organization of the SFPS is shown by Figure E-1.

The BRF for Camp Schwab and Henoko is approved by HQMC and is then entered into the Shore Facilities Planning System (SFPS) data base of the Navy Facilities System (NFS), an automated data processing system located at the Facility Systems Office (FACSO), Port Hueneme, California. A graphic comparison of existing assets (A) and basic facilities requirements (R) follows:

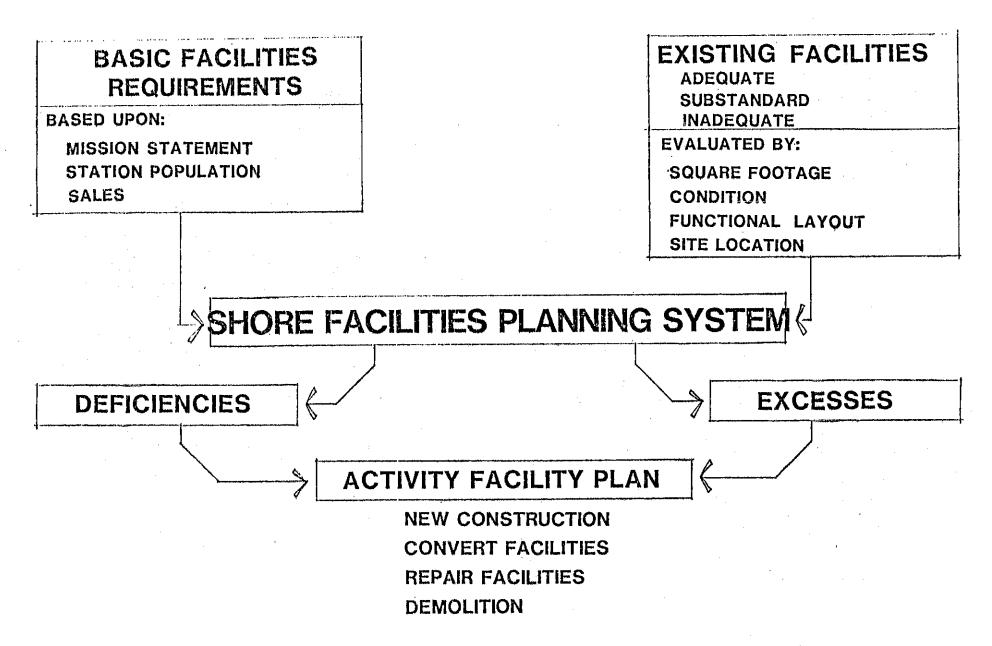
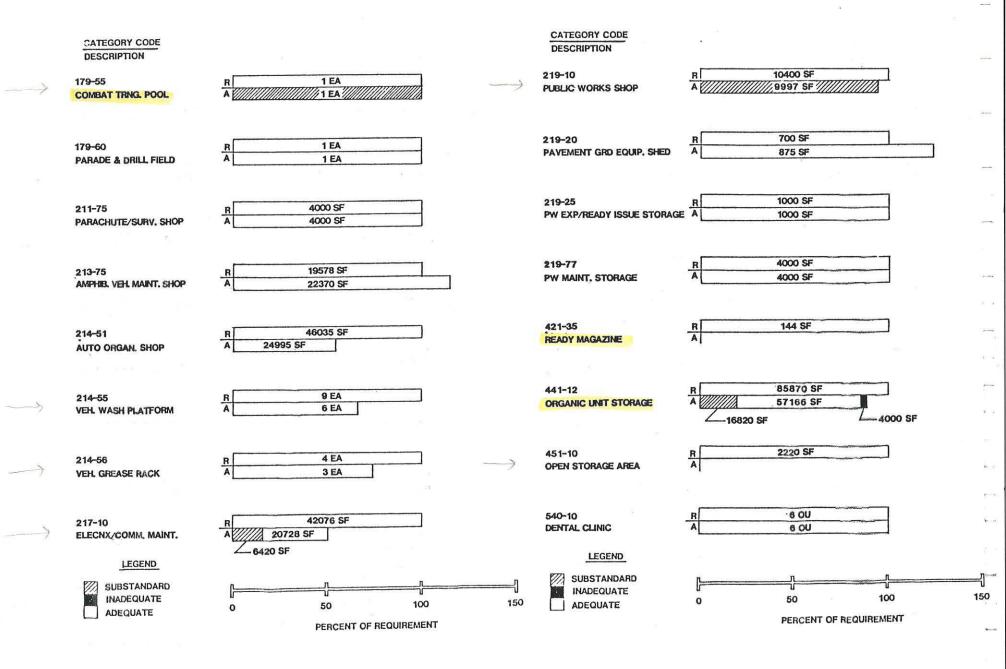
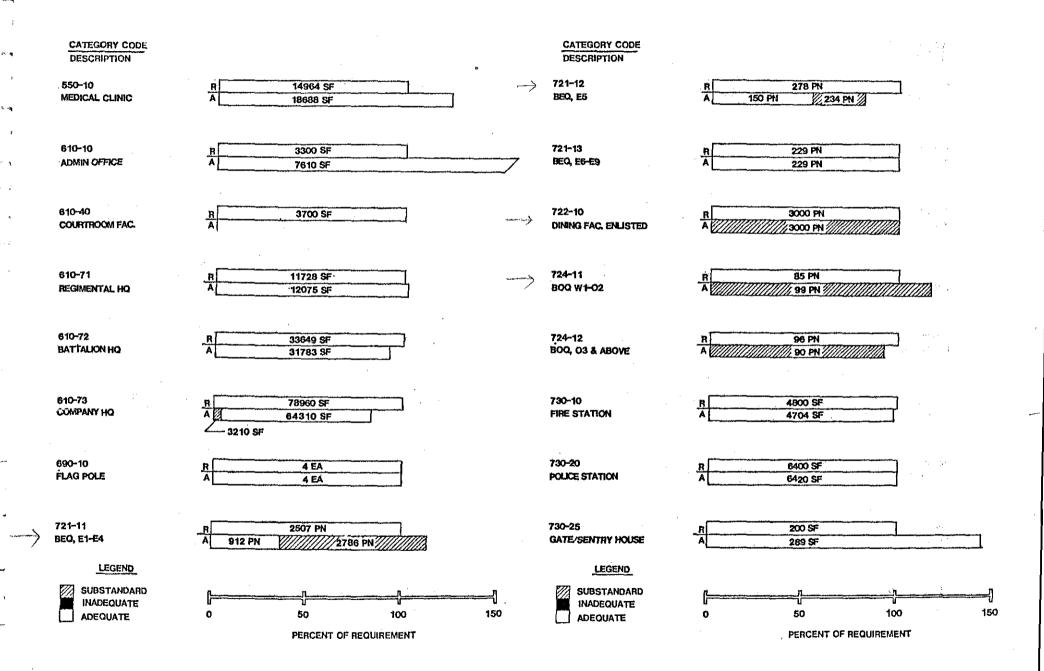
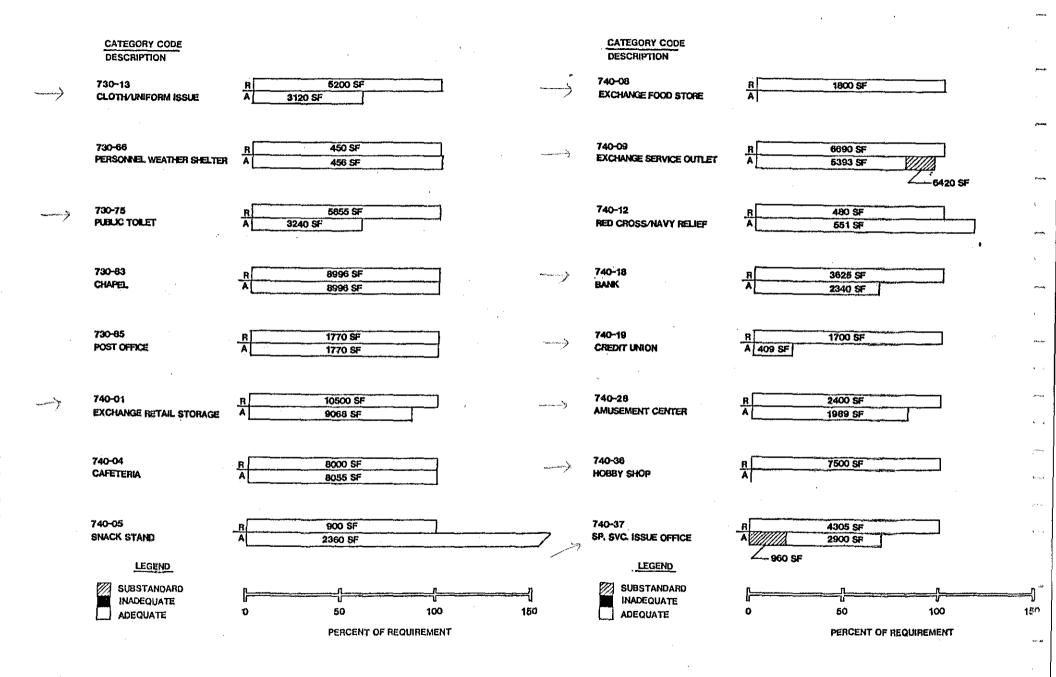


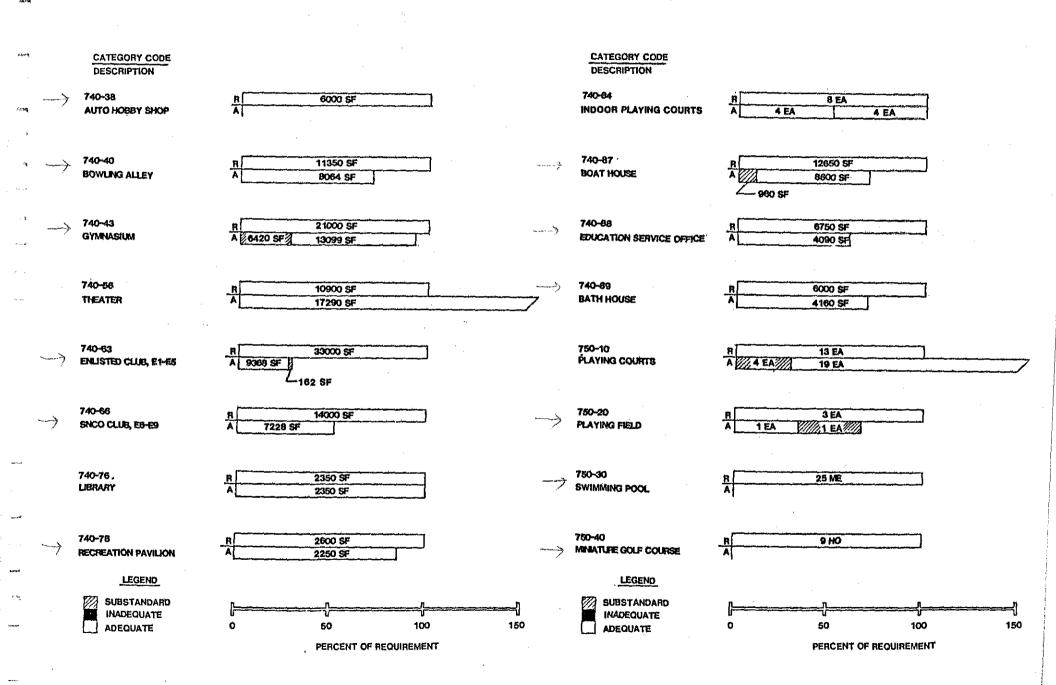
FIGURE E-1

CAMP SCHWAB BFR CATEGORY CODE CATEGORY CODE DESCRIPTION DESCRIPTION 132-10 1 EA 123-10 5 OL ANTENNA-COMM. 1 EA FILLING STATION 10 OL 143-45 10243 SF 25 SF 123-15 ARMORY 12732 SF FILLING STATION BLDG. 25 SF 353 SF 143-78 58000 GA OPER HAZ/FLAM STORAGE 481 SF VEH. READY FUEL STORAGE A 84000 GA 534 LF 154-30 125-60 400 GM SEAWALLS 534 LF 400 GM POL PIPELINE FAC. 6750 SF 171-10 126-30 4 OL ACADEMIC INSTR. BLDG. 6760 SF TANK TRUCK/CAR LOAD FAC. 4 OL 179-40 2 EA 651 SF 131-15 1 EA ////1 EA/// SMALL ARMS RANGE COM, SECURITY 599 SF 2 EA 179-45 2100 SF 131-40 2 EA TRAINING MOCK-UPS TELEPHONE EXCHANGE 2761 SF 2 EA 179-50 464 SF 131-60 TRAINING COURSE 2 EA MARS 464 SF LEGEND LEGEND SUBSTANDARD SUBSTANDARD INADEQUATE 150 INADEQUATE 0 150 100 ADEQUATE 50 **ADEQUATE** PERCENT OF REQUIREMENT PERCENT OF REQUIREMENT



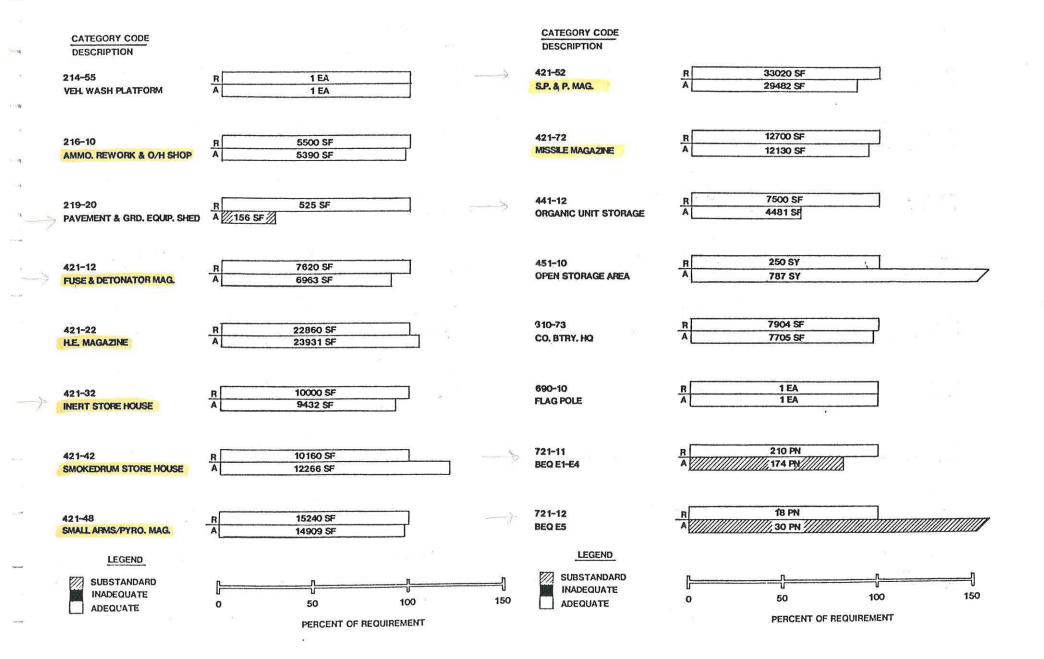


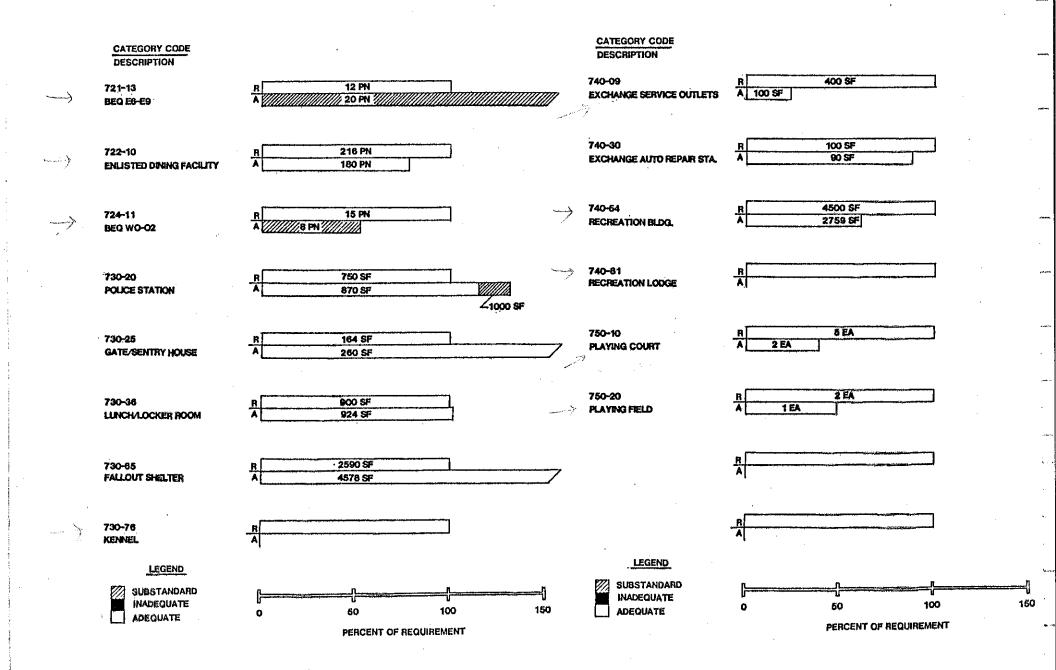




CAMP HENOKO BFR

	CATEGORY CODE DESCRIPTION			DESCRIPTION		·
-	750-52 SKEET/TRAP FACILITY	R 1 EA		111-20 HELICOPTER LAND PAD	A 1100 SY A 1111 SY	
 >	750-60 BOATING FACILITY	R 1 EA		143-20 ORDNANCE OPS. BLDG.	R 3000 SF A 3233 SF	
->	831-41 HAZARDOUS WASTE STORAGE/TRANSFER FAC.	R 1500 SF		143-45 ARMORY	R 576 SF A 200 SF	
		R A		143-78 HAZARD/FLAM. STORAGE	R 334 9F A 334 SF	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R	all courses	162-10 GUN PLACEMENT	R	-
		B		171-10 ACADEMIC INSTR. BLDG.	R 1170 SF A 1200 SF	
		R		179-50 TRAINING COURSE	R 1EA 1EA	
		R A	>	214-51 AUTO ORGANIZATIONAL SHOP	R 3840 SF A 4751 \$\$///////////////////////////////////	
	SUBSTANDARD INADEQUATE ADEQUATE	O 50 100 PERCENT OF REQUIREMENT	150	LEGEND SUBSTANDARD INADEQUATE ADEQUATE	O 50 PERCENT OF REQUIRE	100 150 EMENT



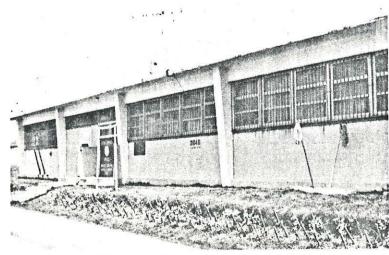


2. ORGANIZATIONAL ANALYSIS

A. MCB CAMP BUTLER

MCB Camp Smedley D. Butler consists of eight major camps spread over an area of 50 kilometers in length, from Camp Kinser on the Western coast of Southern Okinawa to Camp Schwab and Henoko on the Northeastern part of the island. Camps Foster, Lester, Courtney, McTureous and Hansen lie in between. MCB Camp Butler also contains Camp Gonsalves in the Northern Training Area (NTA), Onna Point (a deactivated Camp on the western coast opposite Camp Hansen scheduled for reactivation in 1990), the Central Training Area, and Camp Fuji, Honshu Island, Japan). The Headquarters for MCB Camp Butler is located on Camp Foster (Building 1) and its organization is shown by Figure E-2.

The mission of Marine Corps Base, Camp Smedley D. Butler is to provide training facilities,

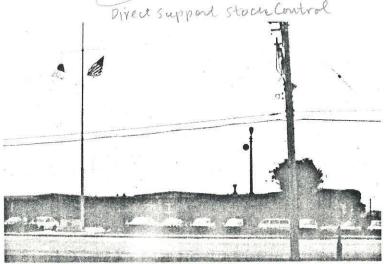


Building 3648, Special Services Office

limited logistic support and limited administrative support for Fleet Marine Force units located on Okinawa and at Camp Fuji.

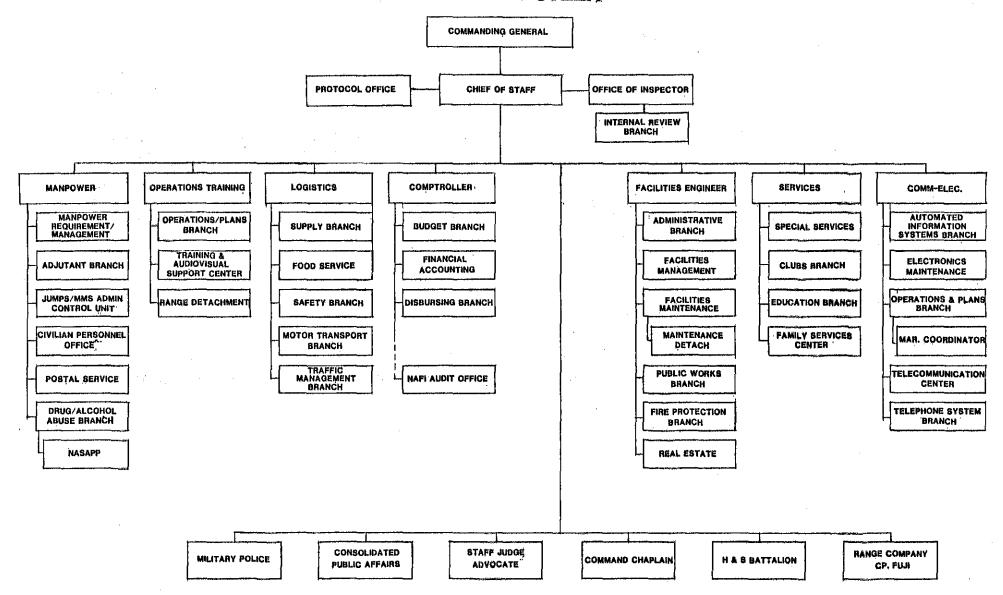
The Commanding General directs and coordinates the functions of Marine Corps Base under the cognizance of the Commander, Marine Corps Bases, Japan, who is also the Local Area Commander for all Naval Service personnel located ashore on Okinawa and is designated as the Okinawa Area under the authority of the Coordinator Commander, U.S. Forces, Japan. The Commander Marine Corps Bases, Japan also serves as the Commanding General, III Marine Amphibious Force and the 3d Marine Division, headquartered at Camp Courtney.

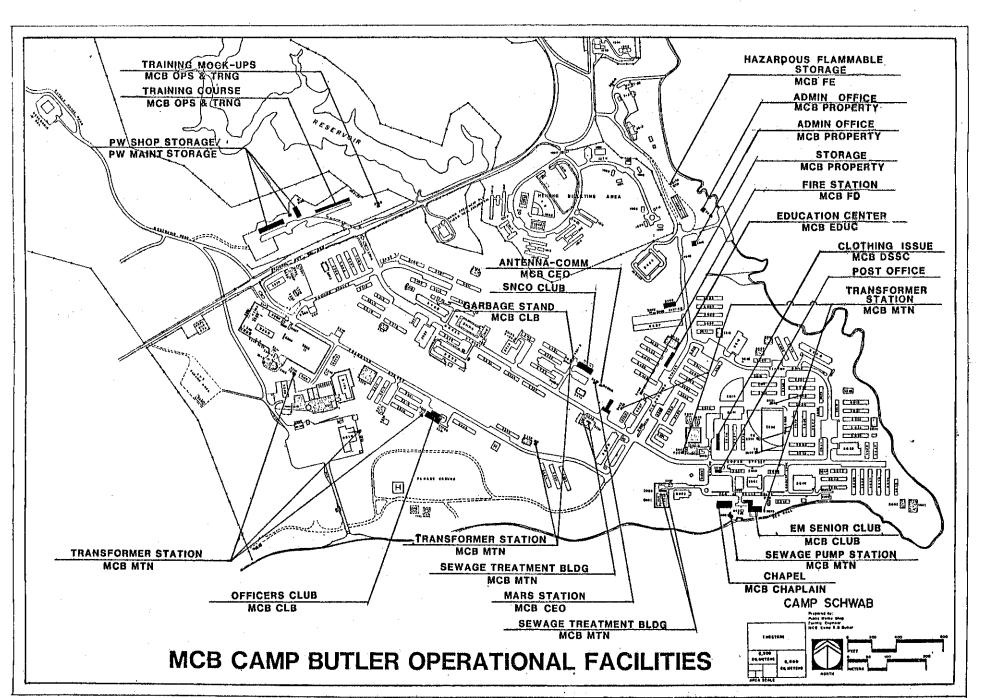
The majority of MCB functions at Camp Schwab and Henoko are under the control of MCB Range Officer, MCB DSSC, MCB Facilities Engineer, MCB



Building 3501, 4th Marine Regiment Headquarters

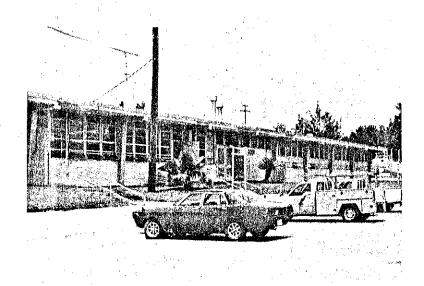
MCB CAMP BUTLER



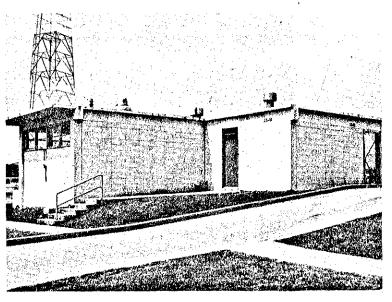




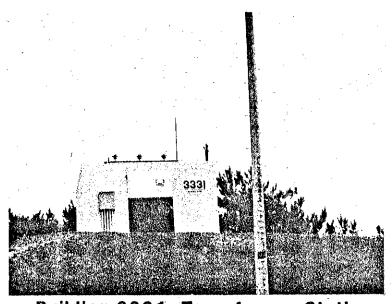
Building 3430, Fire Station



Building 3308, Police Station



Building 3540, Grounds Equipment Shed



Building 3331, Transformer Station

MCB Camp Butler Operational Facilities

Special Services, and MCB Provost Marshall. Operational facilities controlled by MCB Camp S. D. Butler are shown by Plate E-1 and Clubs/Special Services by Plate E-8.

B. CAMP SCHWAB CAMP COMMANDER

The Commanding Officer, Headquarters Battalion, 4th Marine Regiment serves as Camp Commander for Camp Schwab, including the Schwab Training Area. Facilities assigned the Camp Commander are shown by Plate E-2.

C. 3D MARINE DIVISION

The Marine division is the basic Marine Corps ground organization of combined arms services capable of sustained combat. The primary mission of the Marine division is to execute amphibious assault operations that are supported by Marine Corps aviation and naval Although it has been specifically designed for participation in amphibious operations, it also has an inherent capability of operating in a sustained land warfare campaign when appropriately reinforced. Because the division does not contain any organic aviation units, these units will normally be attached to, or operate in support of, the Marine division to meet mission requirements. Such units would be assigned from Marine Aircraft Wings (MAWS).

The organization of the 3rd Marine Division is illustrated by Figures E-3.

The mission of the 3d MARDIV is to execute amphibious assault operations and such operations as may be directed by the III MAF, supported by the 1st MAW and the 3d FSSG. The Headquarters for the 3d Marine Division is located at Camp Courtney.

Several units of the 3d Marine Division are located at Camp Schwab, including 1st Tracked Vehicle Battalion, 3rd Region Battalion, "C" Company, and the 4th Marine Regiment. The 3rd LAV Battalion will be assigned to Camp Schwab the summer of 1988.

D. 4TH MARINE REGIMENT-

The 4th Marine Regiment, subordinate to the 3d Marine Division, is headquartered at Camp Schwab as well as its two Infantry Battalions. Facilities are shown on Plate E-3.

The battalions are the basic tactical units with which the regiment accomplishes its mission. Each battalion consists of a headquarters and service company, and from rifle companies and a weapons company. The primary mission of the infantry regiment is to locate, close with, and destroy the enemy by fire and maneuver or to repel his assault by fire and close combat. The regiment is the major element of close combat power of the Marine division and, with

3RD MARINE DIVISION

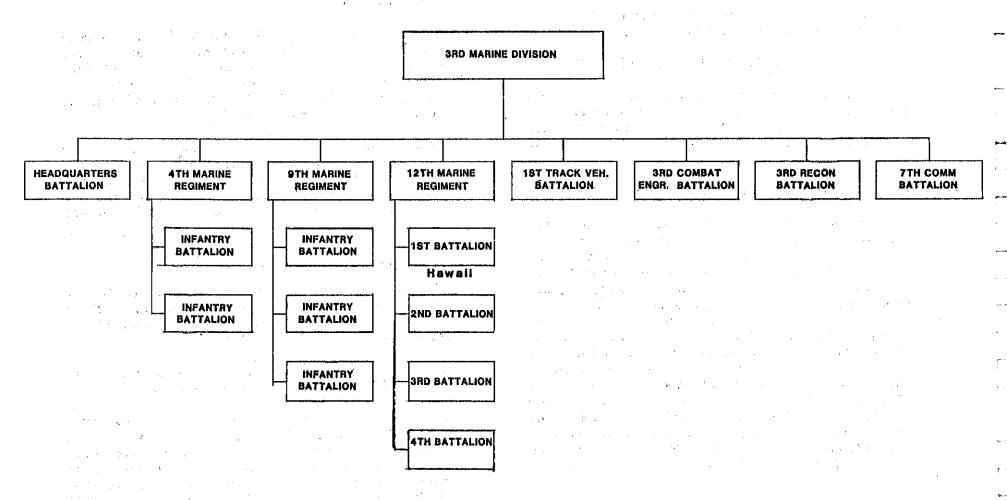


FIGURE E-3

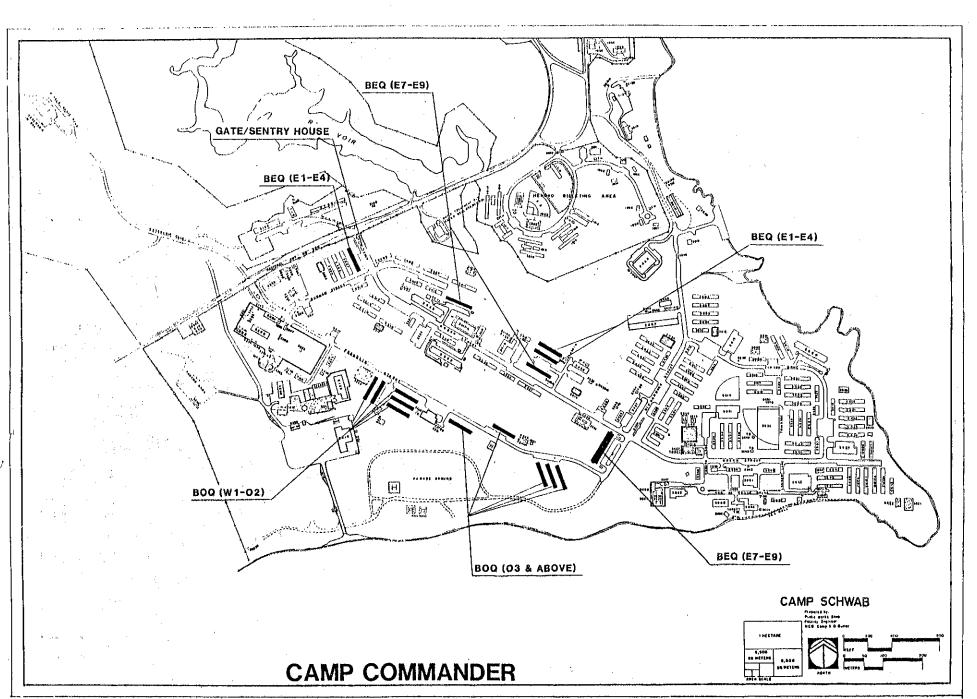
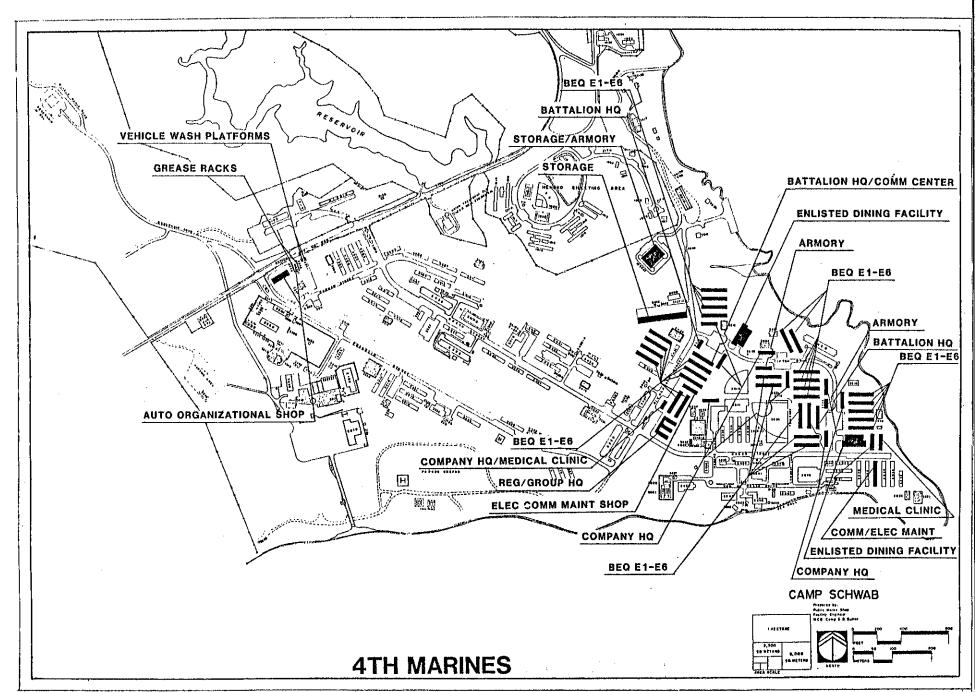
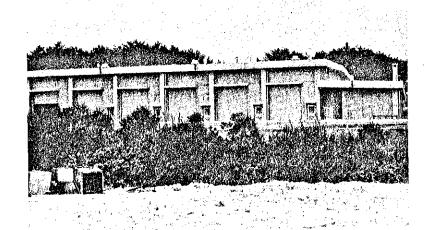
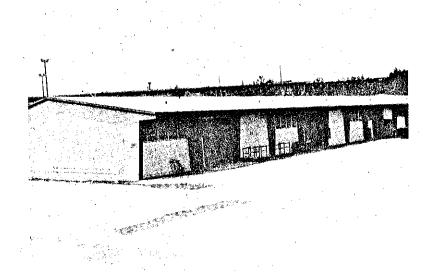


PLATE E-2

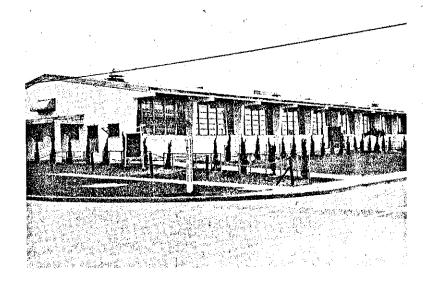




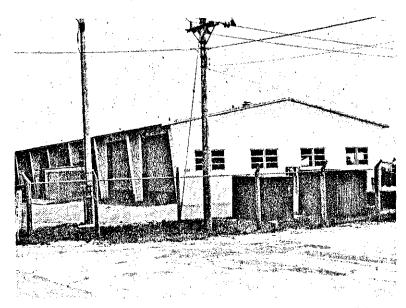
Building 3424, Armory and Storage



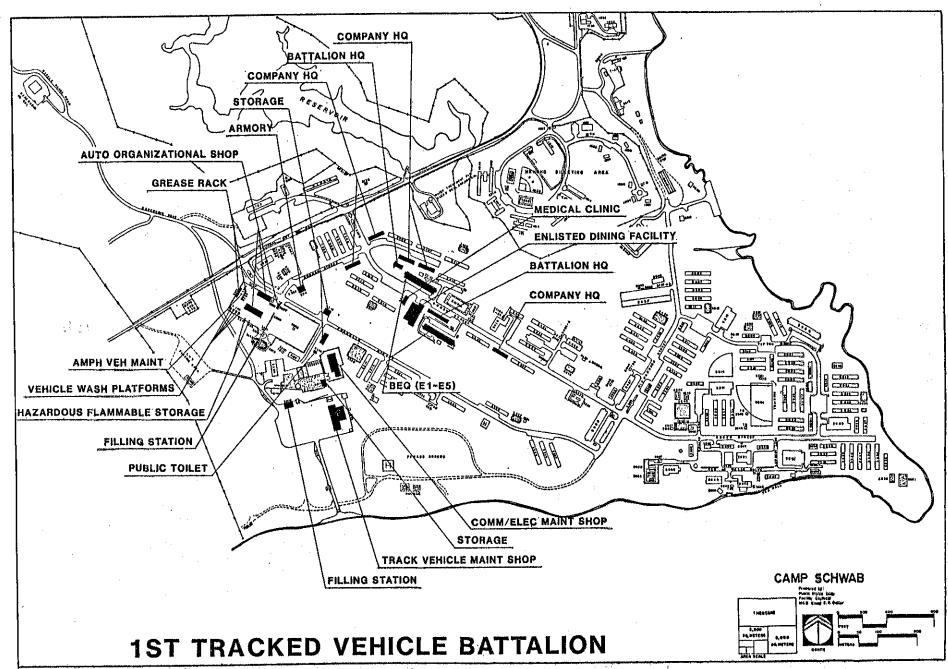
Building 3437, 1st Battalion Armory



Building 3629, Regimental Mess Hall

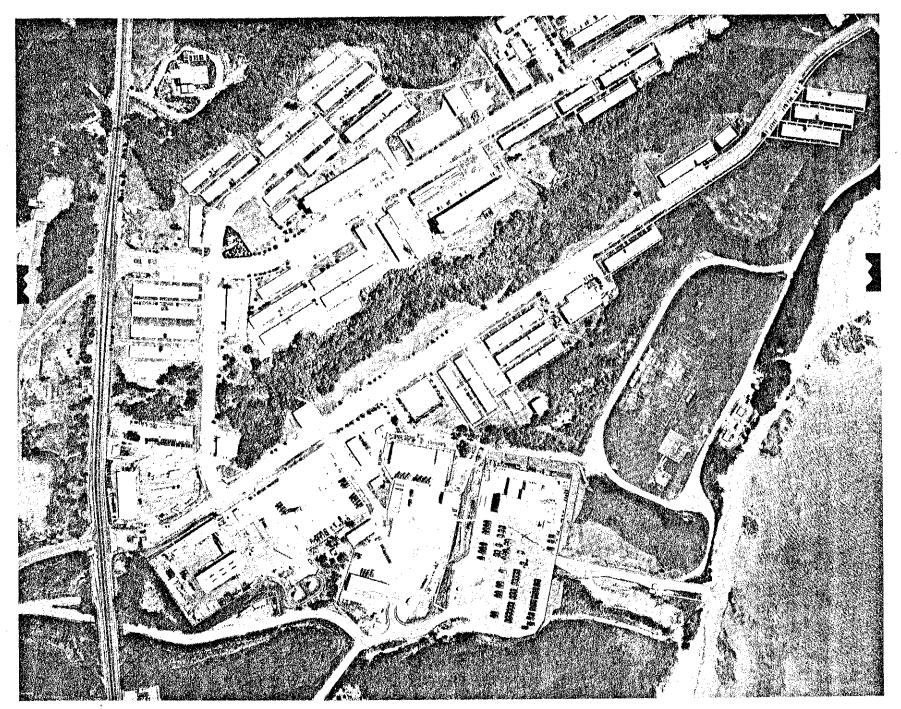


Building 3339, Auto Organizational Shop



and the second s

PLATE E-4

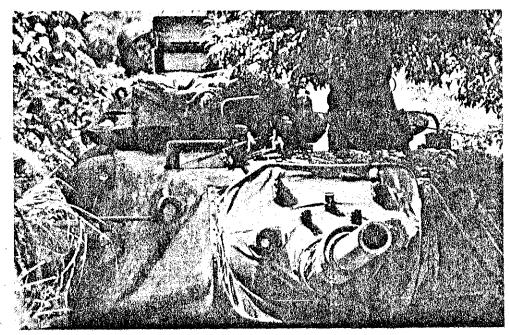


South Camp Schwab

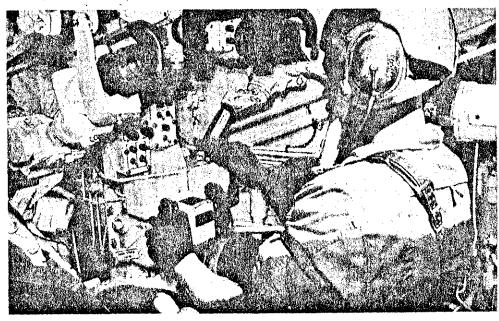


MECHANICS FROM 1st TRACKS
CONDUCT PREVENTIVE MAINTENANCE

1st TRACKED VEHICLE BATTALION AT WORK



M-60A1 TANK IN DEFILADE



GUNNER RUNS COMPUTER SYSTEMS CHECK ON M-60A1 TANK

appropriate attachments, is capable of sustained independent operations. The Regiment, with its organic battalions, is a permanent organization with a staff capable of integrating the efforts of organic, attached, and supporting units.

E. 1ST TRACKED VEHICLE BATTALION

The 1st Tracked Vehicle Battalion, subordinate to the 3d Marine division is located at Camp Schwab. Facilities utilized by the 1st Tracked Vehicle Battalion are illustrated by Plate E-4.

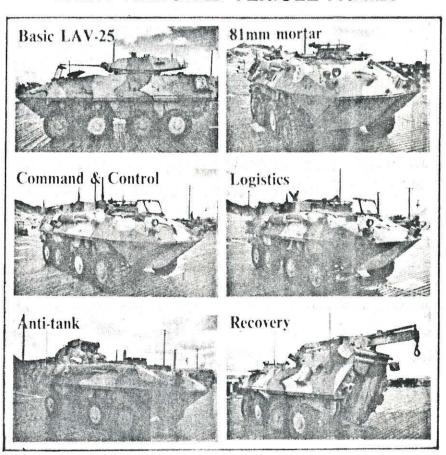
F. 3RD LAV BATTALION

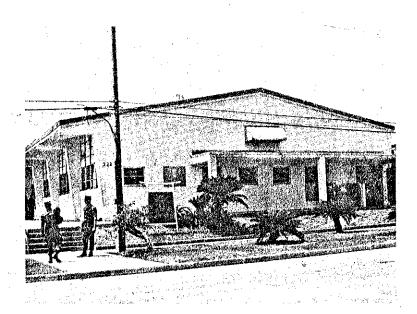
"C" Company, 3rd LAV Battalion, subordinate to the 3rd Marine division, will be assigned to Camp Schwab during the summer of 1988. Facilities to be utilized by "C" Company are illustrated by Plate E-5.

G. 3RD-RECONNAISSANCE BATTALION

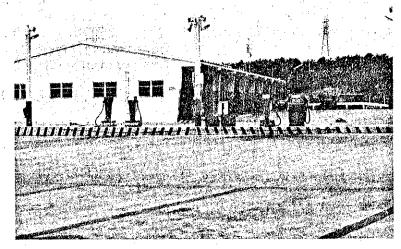
The 3rd Reconnaissance Battalion, subordinate to the 3rd Marine Division, is located at Camp Schwab. The Reconnaissance Battalion consists of a headquarters and service company and four reconnaissance companies. The battalion conducts reconnaissance in support of a Marine division and its subordinate elements. The battalion is not equipped or organized for decisive or sustained combat missions such as screening, counterreconnaissance, reconnaissance in force, or other combat assault missions. It

LIGHT ARMORED VEHICLE FAMILY

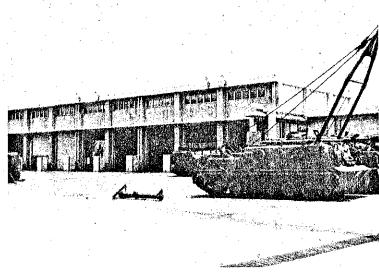




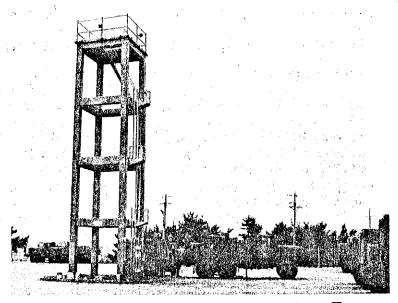
Building 3322, Battalion Mess Hall



Building 3206, Auto Organizational Shop

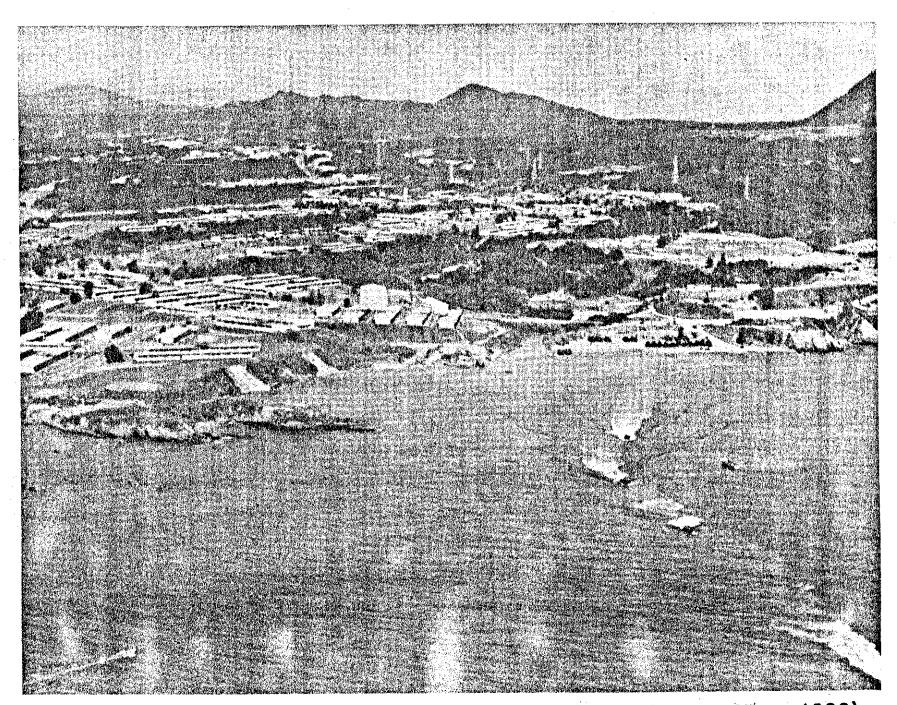


Building 3210, Amphibious Vehicle Maintenance Shop

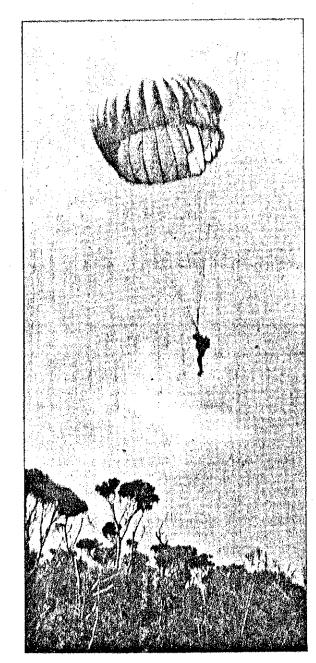


Building 3232, Security Lighting Tower in 1st Track motorpool

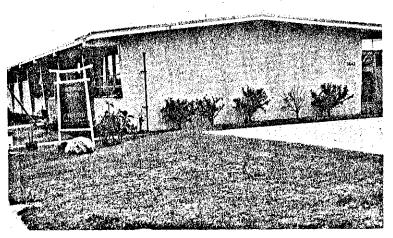
1st Tracked Vehicle Battalion



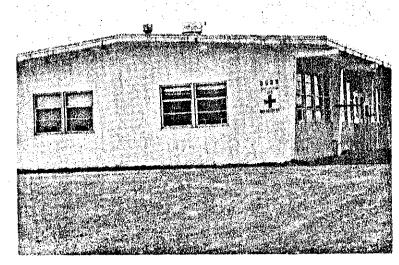
LVT OPERATIONS, SCHWAB WATER TRAINING AREA (LOOKING WEST, c. 1983)



3rd RECON BATTALION JUMPER LANDS
IN NORTHERN TRAINING AREA



Building 3643, 3rd Recon Battalion Headquarters



Building 3635, Company Headquarters and Battalion Aid Station

must accomplish its mission through stealth, maneuver, and rapid reporting. Using organic transportation within the battalion, only two reconnaissance companies can be made vehicle mobile. The battalion is dependent on extensive use of helicopters to provide necessary mobility. Maximum effectiveness is achieved by employing the reconnaissance battalion as a unit directly under division control.

One or more of the companies of the battalion may be attached to, or in support of, subordinate units of the division, or specially task organized wing and division Marine Amphibious Units (MAU) and Marine Amphibious Brigades (MAB). Such employment is normally required when (1) a regimental landing team (RLT) is employed on an independent mission; (2) an RLT is assigned an area of responsibility or zone of action of such size that acquisition of enemy, terrain, and target information is beyond the capabilities of organic battalion patrol activity; or (3) a MAB or MAU is assigned an independent mission. The concept of operation of the reconnaissance battalion emphasizes directed reconnaissance rather than passive surveillance. Combining great tactical mobility (when supported by helicopters) and flexibility with reliable communications equipment, the battalion is capable of maintaining surveillance over extended areas or of conducting detailed area reconnaissance missions, as required.

Division reconnaissance elements may execute terminal guidance for initial helicopter waves. Scouts check and verify selected landing sites. The usable portions of the area are pinpointed and marked; and visual, electronic, or pyrotechnic signals are emplaced to provide guidance for initial helicopter waves. This pathfinder terminal guidance capability of the reconnaissance units does not include landing zone traffic control functions that are provided by Marine personnel from the helicopter units.

H. 3RD FORCE SERVICE SUPPORT GROUP

The Headquarters for the 3d Force Service Support Group (3d FSSG), operationally under the III MAF, is located at Camp Kinser, although some units of the 3rd FSSG are located at Camp Schwab. The organizational structure from FSSG is shown as Figure E-4.

The mission of the 3rd FSSG is to provide sustained combat service support to the 1st MAW and 3rd MARDIV, including isolated components. This includes garrison components, deployed separately or as part of III MAF, 9th MAB or a MAU, executing amphibious operations and subsequent operations ashore.

I. AMMO COMPANY, 3RD SUPPLY BATTALION

The 3rd Supply Battalion consists of a headquarters and service company, an ammunition company, a ration company, and a supply company

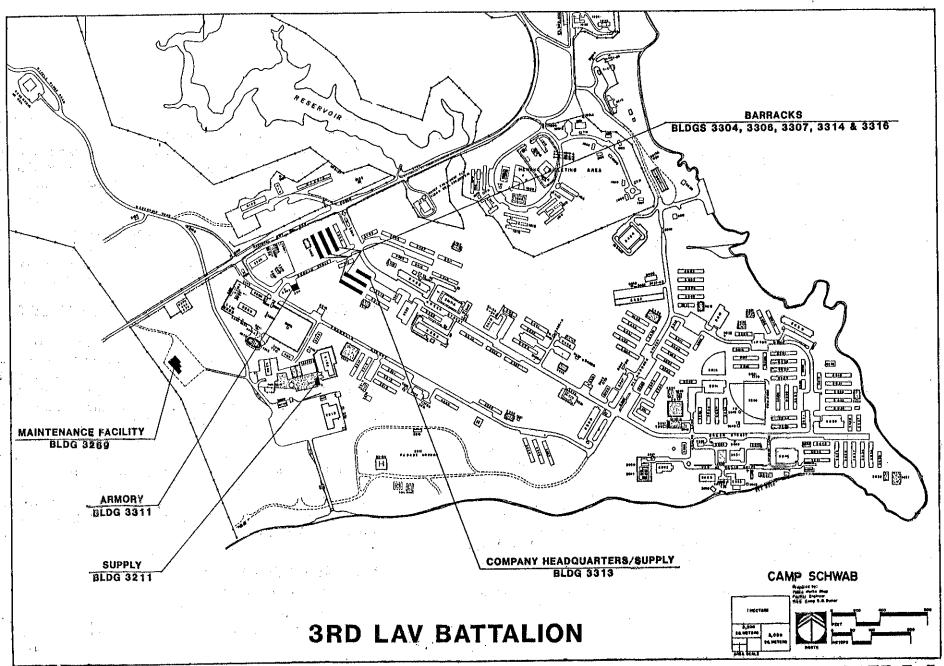


PLATE E-5

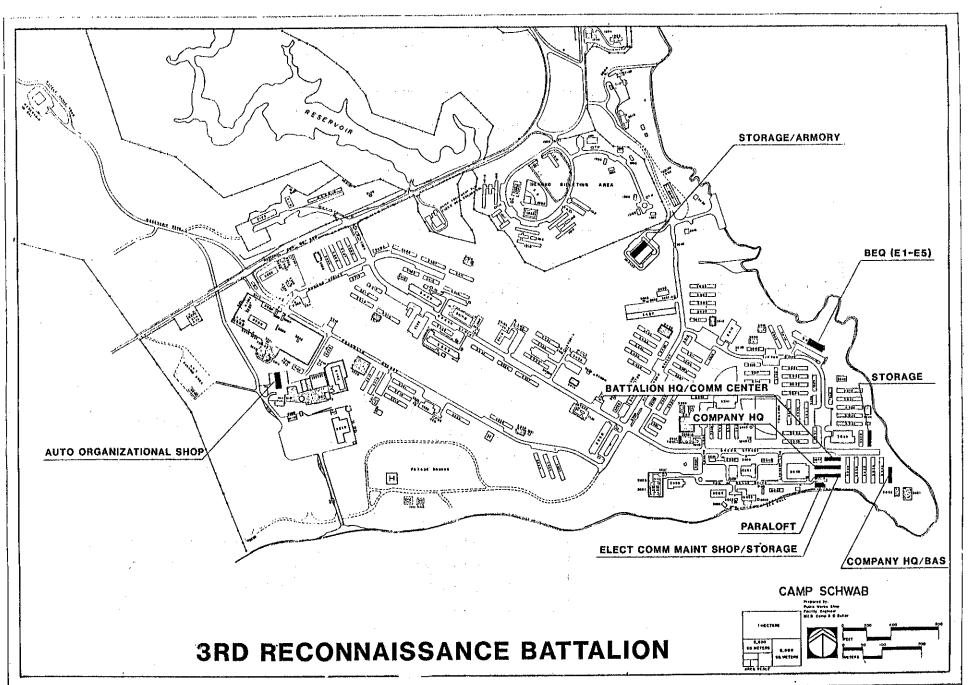


PLATE E-6

3D FORCE SERVICE SUPPORT GROUP

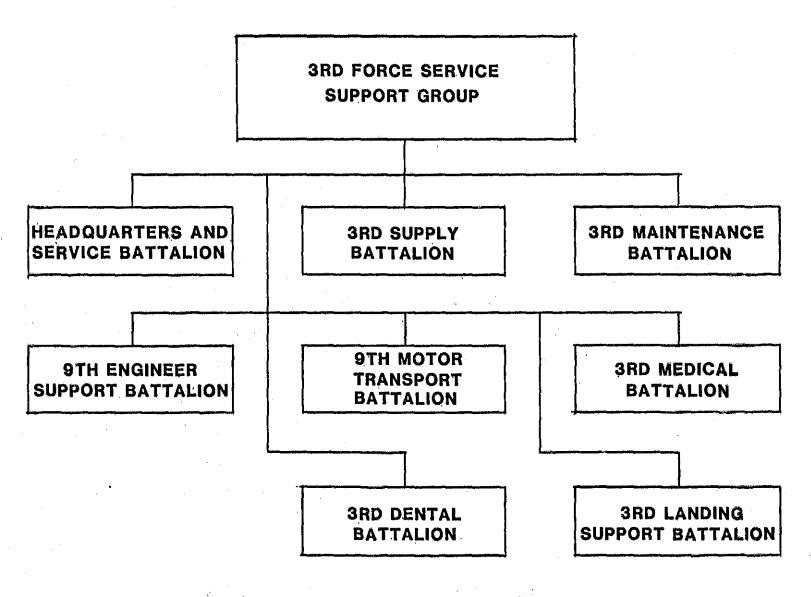
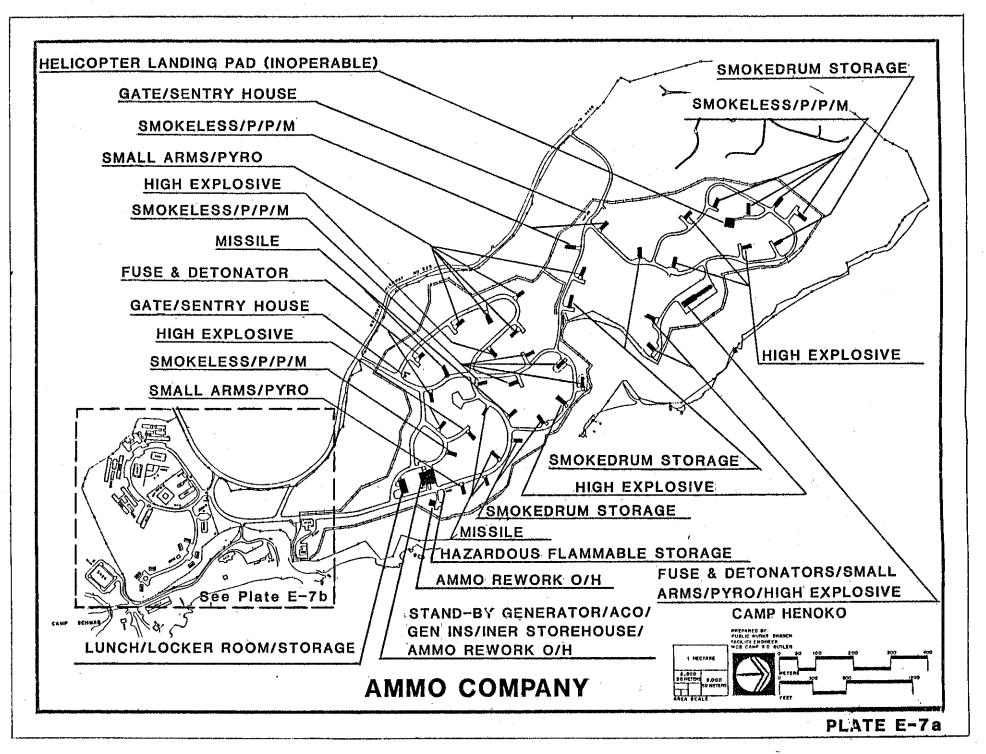
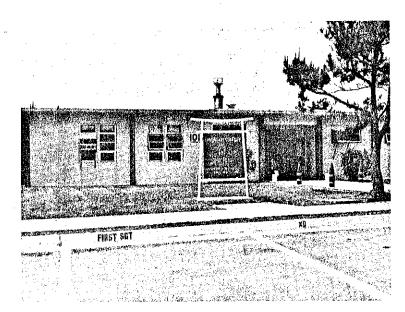
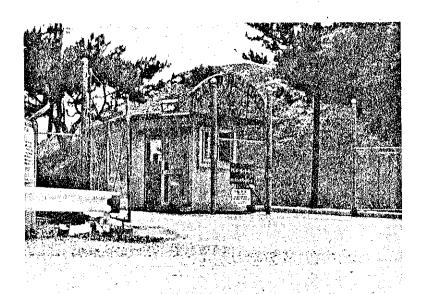


FIGURE E-4

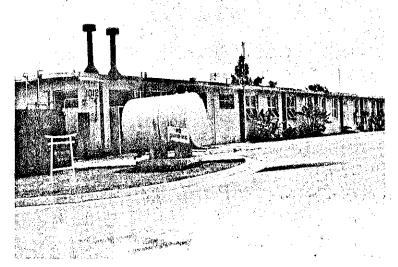




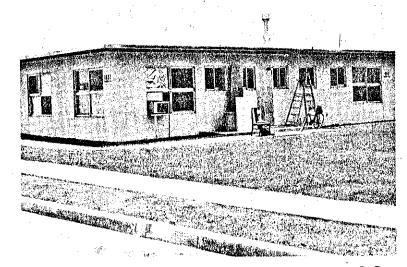
Building 1017, Ammo Company Headquarters



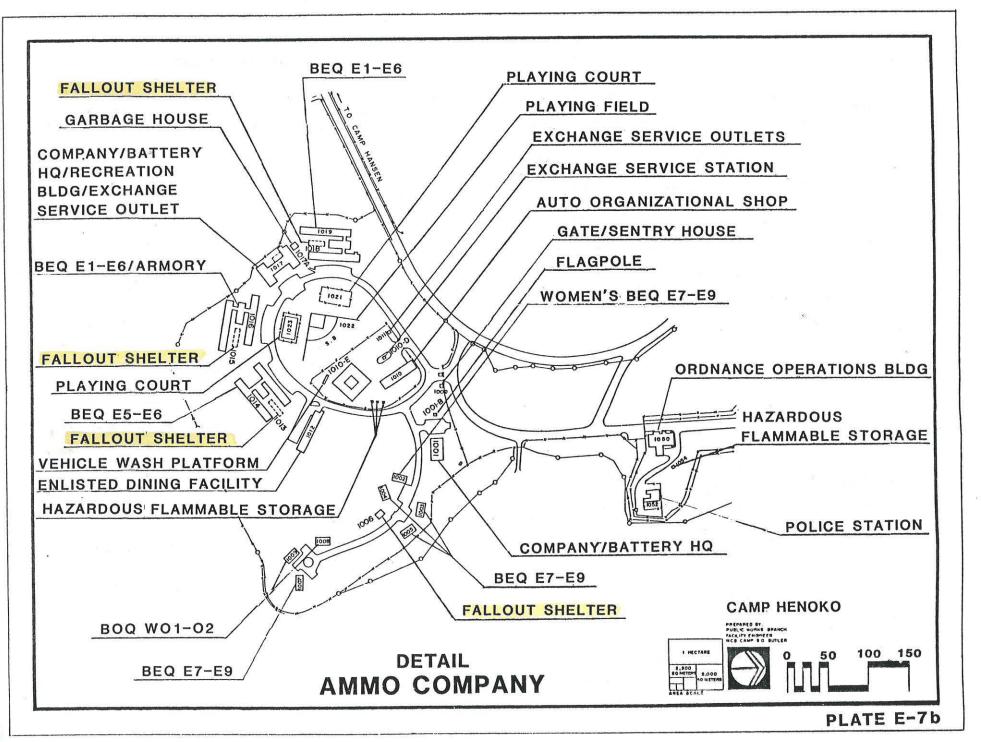
Henoko Main Gate

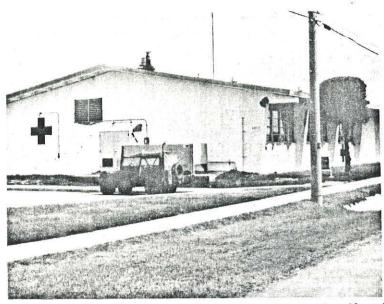


Building 1012, Ammo Company Mess Hall



Building 1002, Ammo Company BOQ





Building 3427, B Company, 3rd Medical Battalion Dispensery



Building 3426, 3d Dental Company Dental Clinic

that includes a package fuel platoon. Its mission is to provide all functions, including stock control, cross servicing, and civilian contracting incident to the supply support of a Marine division, a Marine aircraft wing and force troop units, including isolated components thereof, either when employed separately in combat or as part of a MAGTF as well as in garrison. The Commanding Officer of Ammo Company serves as Camp Commander of Henoko Ammunition Area. Facilities assigned to the Ammuition Company are illustrated by Plate E-7.

J. 3RD MEDICAL BATTALION

"C" CO, 3rd Medical Battalion, subordinate to the 3rd FSSG, is located at Camp Schwab. Facilities assigned are shown on Plate E-8.

K. 3RD DENTAL COMPANY

The Camp Schwab Dental Clinic is staffed by personnel of the 3rd Dental Company, 3rd Dental Battalion, 3rd FSSG. The 3rd Dental Battalion is headquartered at Camp Kinser. There are four dental companies in the FSSG. Each is capable of being deployed as a unit or providing detachments for elements of the division, wing, or any size Marine air-ground task force (MAGTF). The unit deployed has the ability to maintain the dental health of its supported unit and provide specialized care of casualties who have sustained injuries in the face and mouth. Facilities are shown by Plate E-8.

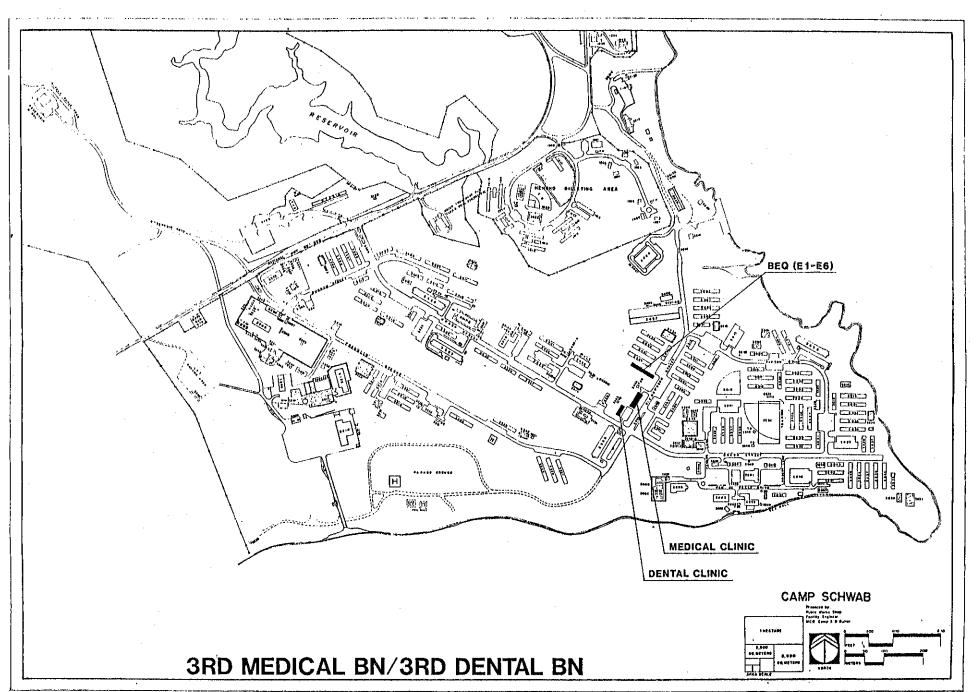


PLATE E-8

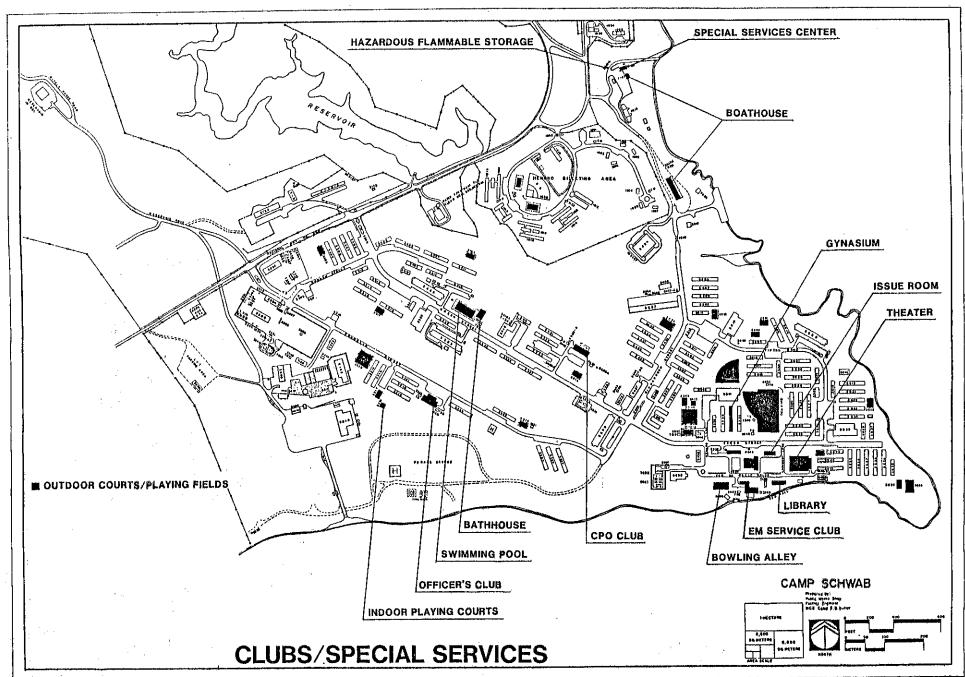
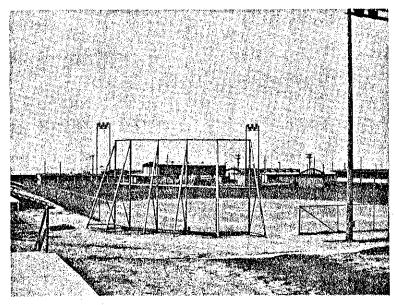
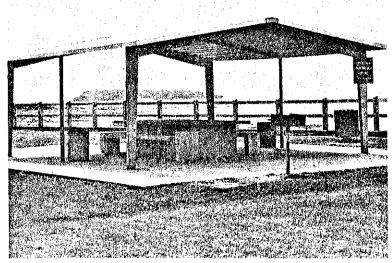


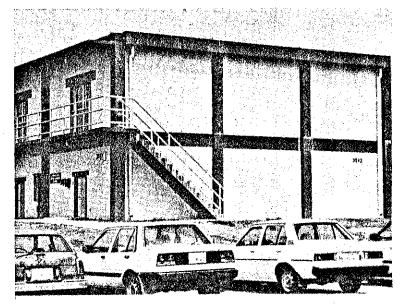
PLATE E-9



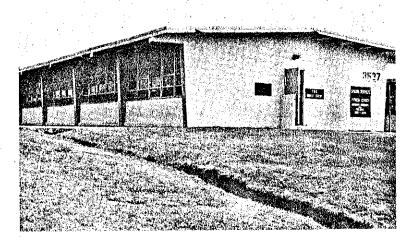
Building 3514, Ball Field



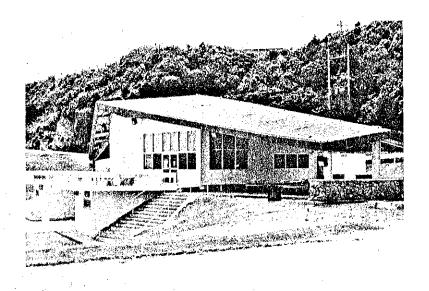
Special Services Picnic Pavillion



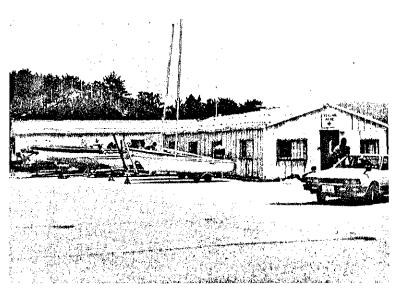
Building 3543, Racketball Court



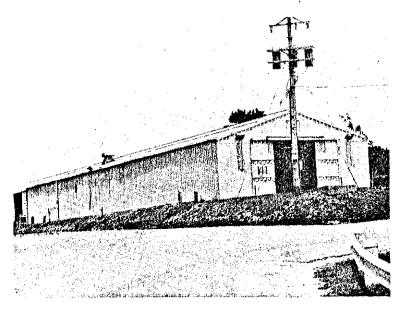
Building 3537, Fitness Center



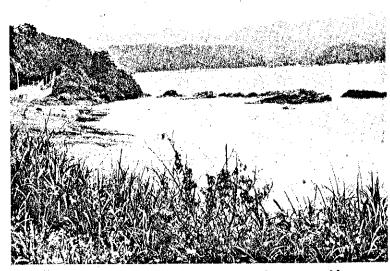
Building 3615, Recreation Building



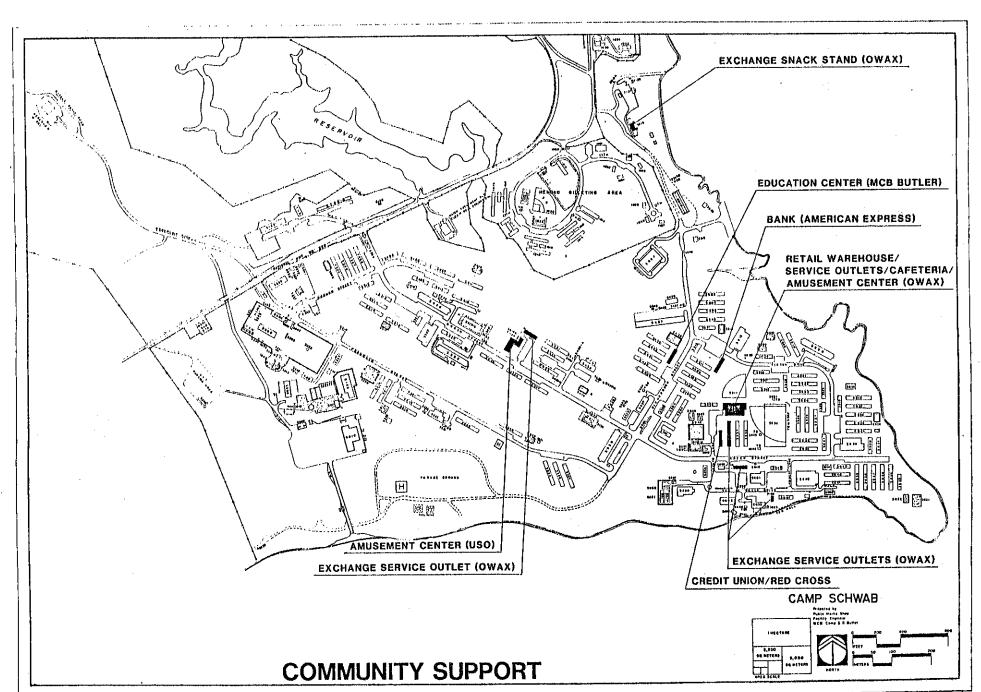
Buildings T-27 and T-26, Boathouse and Storage



Building 3617, Boathouse



Oura-wan Beach looking north

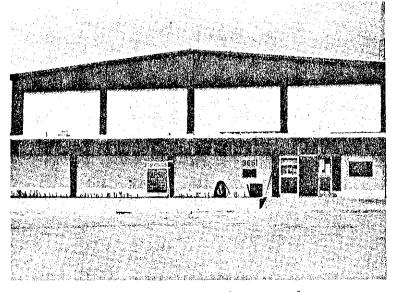




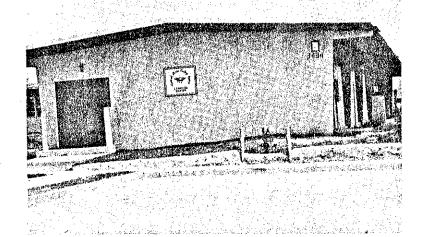
Building 3415, USO



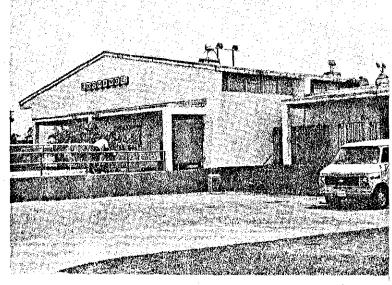
Building 3646, Base Theater



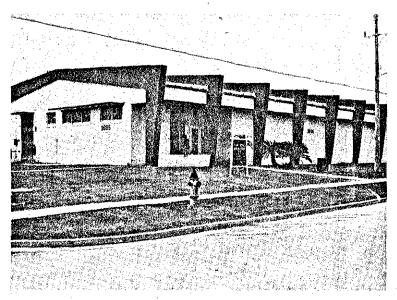
Building 3651, Gymnasium



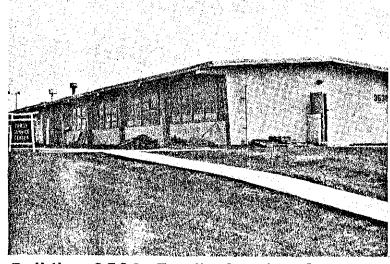
Building 3434, Education Center



Building 3541, Cafeteria and Amusement Center



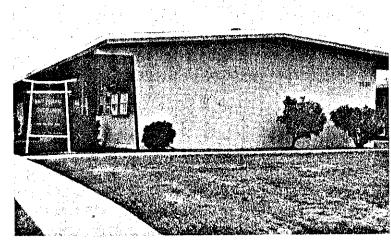
Building 3665, Bowling Center



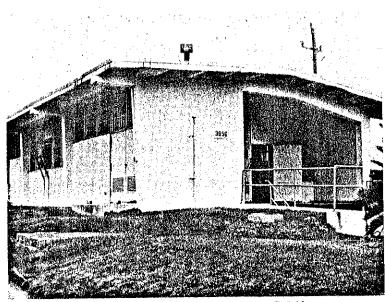
Building 3538, Family Service Center



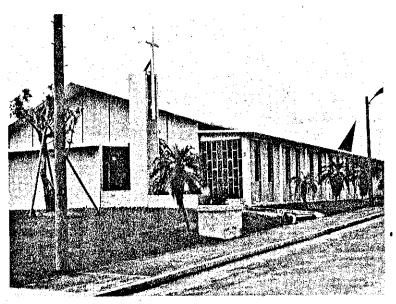
Building 3419, Exchange Outlets



Building 3539, Navy Federal Credit Union



Building 3656, Post Office



Building 3662, Base Chapel



Building 3647, Library

L. TAFDS, WTS-174, 1ST MAW

Six enlisted Marines assigned to the Tactical Aircraft Fuel Dispensing System, Wing Transportation Squadron-174, 1st Marine Air Wing, are assigned at Camp Schwab.

M. RED CROSS

The American Red Cross acts as medium of communication between the American people and their Armed Forces. Emergency communication service relative to illness, deaths, births, marital and other family problems, is available on a 24-hour basis through the message centers of the military services. Facilities are shown on Plate E-10.

N. BANK OF FORT SAM HOUSTON

The bank of Fort Sam Houston has been authorized by the DOD to operate military banking facilities at various bases on Okinawa for the exclusive use of Armed Forces personnel and their dependents. The military service operating the respective facilities are shown on Plate E-10.

O. OWAX

The Army/Air Force Okinawa Area Exchange (OWAX) oversees all Exchange operations on Okinawa. Employment is about 650 American civilians, largely dependents of Armed Forces personnel and



Fuel sample test by TAFDS during Team Spirit '87

about 800 local nationals to provide service to approximately 55,000 authorized customers. The Okinawa Exchange system includes 30 retail branches, 49 food service outlets, five gas stations and over 275 personnel service concessions. Facilities are situated at Camps Kinser, Courtney, McTureous, Hansen, Schwab, Foster, Onna Point, Shields, and Lester, at MCAS Futenma, the Northern Training Area, White Beach, Torri Station, Makiminato Housing Area, and Kadena Air Base. The Headquarters for OWAX is situated at Camp Lester. User locations are illustrated by Plate E-10.

3. BASE LOADING

Base loading is summarized by Figure E-5 and represents the full T/O strength of units at Camp Schwab and Henoko. For planning purposes, strength projections provided by Headquarters Marine Corps as reported in the Facilities Support Requirements (FSR) document are used for greater accuracy in developing facilities requirements.

4. BEQ/BOQ BILLETING

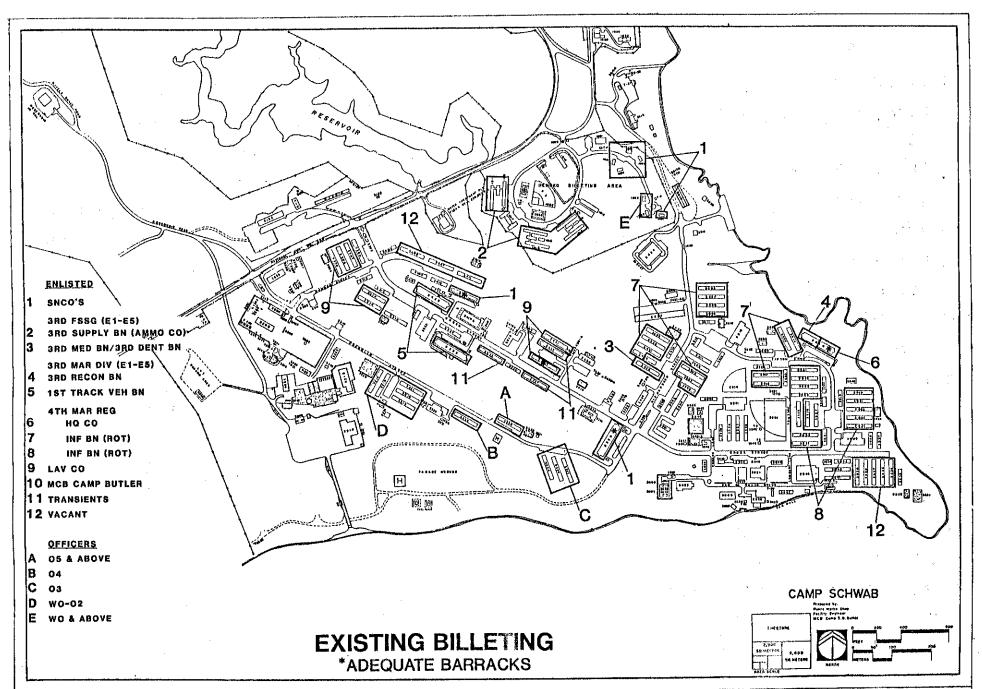
An in-depth discussion of unaccompanied billeting requirements at Camp Courtney is pro-vided by the Bachelor Housing Master Plan for USMC, Japan-wide (draft, November 1985). This plan, published by the Public Works Branch, MCB Camp Smedley D. Butler, is a highly flexible planning tool based on each installation's

projected troop strength and accompanied tour requirements, as provided by the BFR.

Camp Schwab and Henoko are located along the east-central coast of Okinawa adjacent to the Schwab Training Area. Except areas of steep terrain, the land is developed and used for administration, troop housing, maintenance, and personnel support. Due to a deep gulch that divides the two camps, Henoko personnel cannot readily be billeted at Camp Schwab, unlike most BFR, for Camp Schwab and Henoko, the barracks requirements for each camp, is evaluated separately. See appendix L-2, for details of the existing facilities and a detailed analysis of programmed strength.

The Ammunition Company of 3rd Supply Battalion is billeted at Camp Henoko. The majority of the personnel billeted at Camp Schwab are assigned to 3rd Marine Division units, including two six-month rotational Infantry Battalions. In addition, the C Company of the 3rd Light Attack Vehicle Battalion (3rd LAV) is scheduled to be located at Camp Schwab during Summer, 1988.

Personnel are currently billeted as shown by Plate E-11 and summarized by Figure E-6. Officers are currently living in substandard, unair-conditioned BOQ's and approximately 60 percent of the enlisted personnel are billeted in open-bay, un-air conditioned BEQ's.



(FOR USE WITH PLATE E-11)

Fig. E-6

ENLISTED BILLETING

- 1 SNCOs BEQ 1002-1005, 1007, 3330, 3416 3RD FORCE SERVICES SUPPORT GROUP
- 2 3RD SUPPLY BN.
 - BEQ 1014, 1016, 1019 AMMUNITION CO.
- 3 3RD MEDICAL BN. AND 3RD DENTAL BN.

BEQ 3428

3RD MARINE DIVISION

- 4 3RD RECONNAISANCE BN.
 - BEQ 3630 (PORTION)
- 5 1ST TRACK VEHICLE BN.

BEQ 3304, 3306, 3307, 3314, 3316,

3318, 3323, 3404, 3406, 3407, 3409,

3411, 3412

4TH MARINE REGIMENT

- 6 HEADQUARTERS CO.
 - BEQ 3630 (PORTION)
- 7 INFANTRY BN. (ROTATIONAL)
 BEQ 3429 (PORTION), 3431, 3432, 3433,

3507 (PORTION), 3508, 3509, 3517,

3518, 3603, 3606-3609, 3614

- 8 INFANTRY BN. (ROTATIONAL) BEQ 3521-3524, 3528 (PORTION), 3532, 3533, 3619, 3621-3624
- 9 MCB BUTLER
 BEQ 3421 MARKSMANSHIP TRAINING
 UNIT, BEQ 3423 CAMP SERVICES
- 10 TRANSIENTS BEQ 3327, 3422
- 11 VACANT

BEQ 3634, 3636-3639

OFFICER BILLETING

A O5 & ABOVE

BOQ 3329

B 04

BOQ 3223

C 03

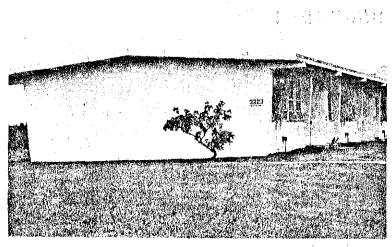
BOQ 3224, 3226, 3227

D WO-02

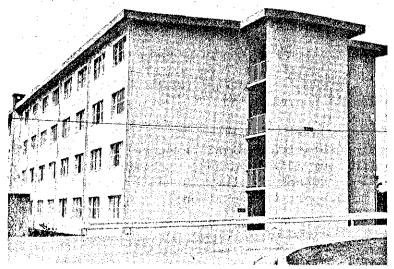
BOQ 3214, 3216, 3218, 3219, 3221

E WO & ABOVE

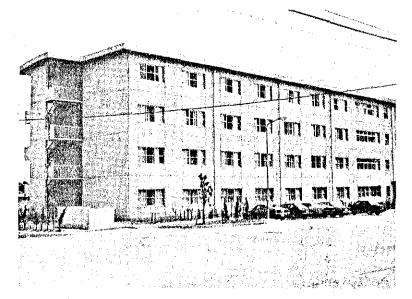
BOQ 1008, 1009



Building 3223, BOQ



Building 3330, 1st Battalion SNCO Quarters



Building 3332, 1st Tracked Vehicle
Battalion BEQ



Building 3623, Transient BEQ

SCHWAB AND HENOKO BEQ REQUIREMENT

	# of Rooms	Room Size (SF)	E6-E9	<u>E5</u>	E1-E4	Notes
Billeting Requirement:	:		238	295	2721	
Adequate Assets:			223	144	1117	1
вео 3330	129	270	(129)	-	-	
3332	125	270	-	(42)	(312)	
3416	100	180	(94)	(6)	-	
3423	100	180	•	(26)	(148)	
3425	125	270	-	(40)	(315)	
3630	12 9	270	· 	(30)	(324)	
Deficiency:			15	151	1604	
Construct:			15	24	211	1
BEQ (JFY88, Henoko)	160	180	(<u>15</u>)	(24)	(211)	2
Deficiency:		•	0	127	1393	3

NOTES:

- 1. The BEQ capacities by rank are based on the "rank distribution" of the proposed occupants (see the Schwab/Henoko BEQ Plan).
- 2. The number of rooms in the BEQ could be reduced to 145 if the existing SNCO/Officer quarters are renovated for the Henoko SNCO's (see the Schwab/Henoko BOQ Plan).
- 3. Upon completion of the BEQ at Henoko, all SNCO's and nonrotational E1-E5 personnel will be billeted in adequate facilities. The remaining deficiency equates to four additional BEQ's; however, due to funding constraints and the need to program BEQ's for nonrotational personnel at other installations. FY88 MCON P-539 will air condition 31 open-bay BEQ's at Camp Schwab to support the rotational E1-E5 personnel for the immediate future.

SCHWAB AND HENOKO BOQ REQUIREMENT

	# of Rooms		Room Si	ze (SF)	03 & Above	<u>WO-02</u>	Notes
Billeting Requirement:					60	114	
Adequate Assets:		(NONE)			0	0	
Deficiency:				•	60	114	
Construct: BOQ (JFY86) BOQ (JFY88)	40 60			(Gross SF)	42 (40) (-)	67 (-) (60)	
BOQ (JFY88, Henoko)	9			(Gross SF)	<u>(2</u>)	<u>(7</u>)	1
Deficiency:	÷				18	67	
Upgrade 5 BOQ's (MCON):	100		225	*	18	64	2
Deficiency:					0	-3	3

· NOTES:

- 1. An alternative is to renovate the existing SNCO/Officer quarters for the unaccompanied officers at Henoko (see the Schwab/Henoko BOQ Plan).
- 2. Centrally air-condition and upgrade five substandard BOQ's in the MCON program to support the remaining officers (see the Schwab/Henoko BOQ Plan).
 - 3. Remaining deficiency is negligible.

The recommended BEQ utilization discussed in Section I (Site Development) and illustrated by Plate I-11 and Figure I-2 was developed based on the information that 1st Track Vehicle Battalion will remain non-rotational and the new 3rd LAV Company will be rotational. Recently CMC clarified that 1st Track will rotate starting FY86 and that the 3rd LAV Company will be non-rotational. This change will require a re-evaluation of the recommended assignment of BEQ space, but will not affect the validity of the proposed overall construction requirement.

Tables E-1 and E-2 compare the projected billeting requirements and the existing adequate assets and as a result, identifies the construction required to fulfill the remaining deficiencies. Taking into account the proposed construction, unit integrity, and other facility requirements, the BEQ and BOQ plans for Camp Schwab and Henoko are summarized by Section I (Site Development) in this Master Plan.

Table E-3 depicts the typical summertime environmental conditions of the Marine Barracks, and Figure E-7 illustrates the standard BEQ module which is the established goal for barracks upgrade projects.

5. MILITARY FAMILY HOUSING

Military family housing requirements are fully discussed in the Okinawa Housing Development Plan (OHDP), a multi-service-coordinated, multi-

year development plan published jointly by MCB Camp Smedley D. Butler and representatives of the Air Force, Navy, and Army on Okinawa. The plan identifies all requirements for Military Family requirements, including that generated by the Housing (MFH) and Community Facilities (CSF) and satisfies the directives of the 21 December 1983 Memorandum of Agreement (MOU) between Headquarters USAF and headquarters USMC, including the requirement to provide housing for the conversion of 3,581 USMC unaccompanied tours to accompanied tour status. The total housing USAF 1981 MFH Survey (showing a deficit of 1,758 units) as well as the Marine Corps accompanied tour intiative, is a projected end position MFH inventory of 11.112 MFH units. To satisfy this requirement, approximately 7,000 new MFH units must be constructed on Okinawa.

Currently programmed demographics indicate a requirement for 1,304 converted Marine Corps tours in the "northern population centroid", including Camps McTureous, Courtney, Hansen, and Schwab.

The on-base housing requirement for this area is 1,167 MFH units of which 542 will be located at Camp Courtney, and 625 at Camp McTureous.

6. CTA TRAINING REQUIREMENTS

Training requirements for all MCB Camp Butler activities were studied by PACNAVFACEGCOM, and published as part of the MILPRO-Training study (1986). Additionally, a detailed masterplan for

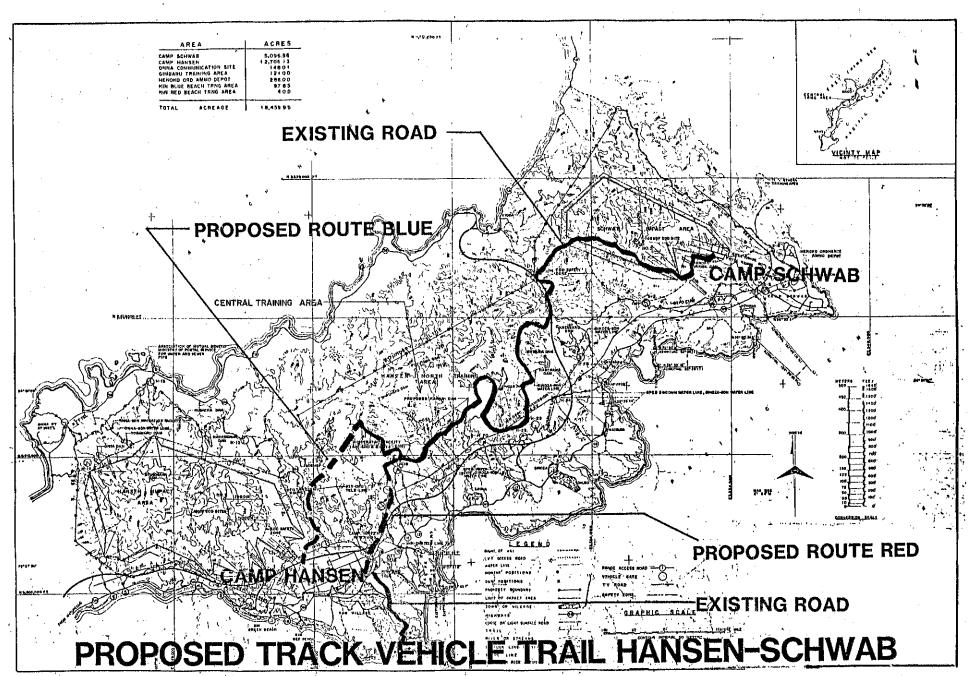
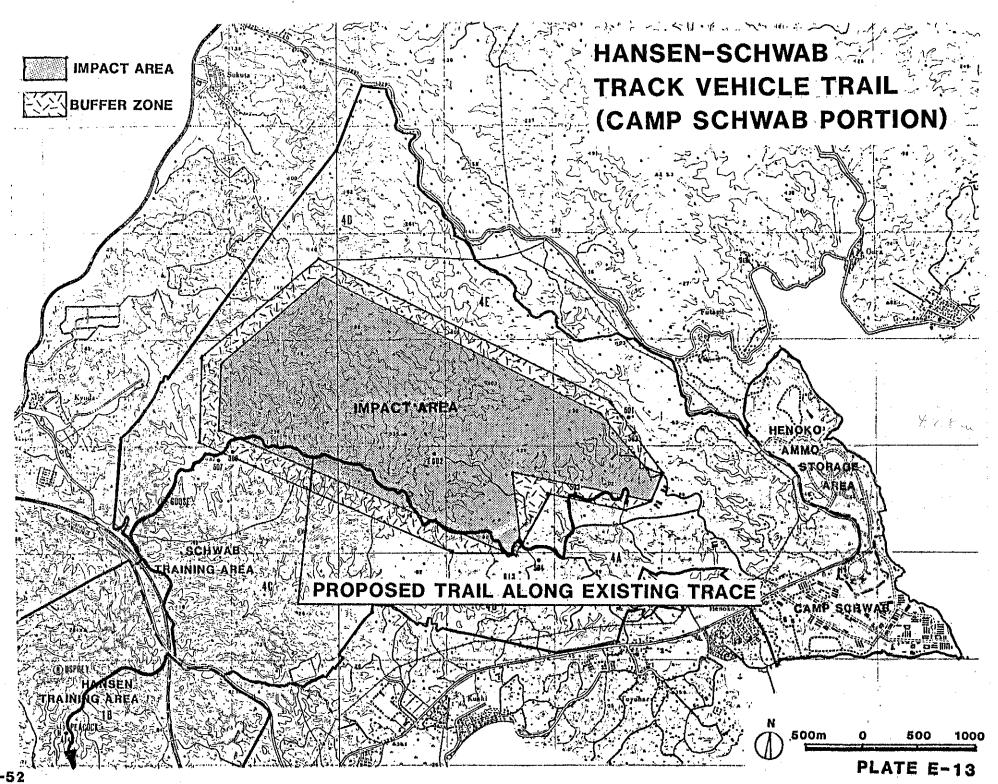
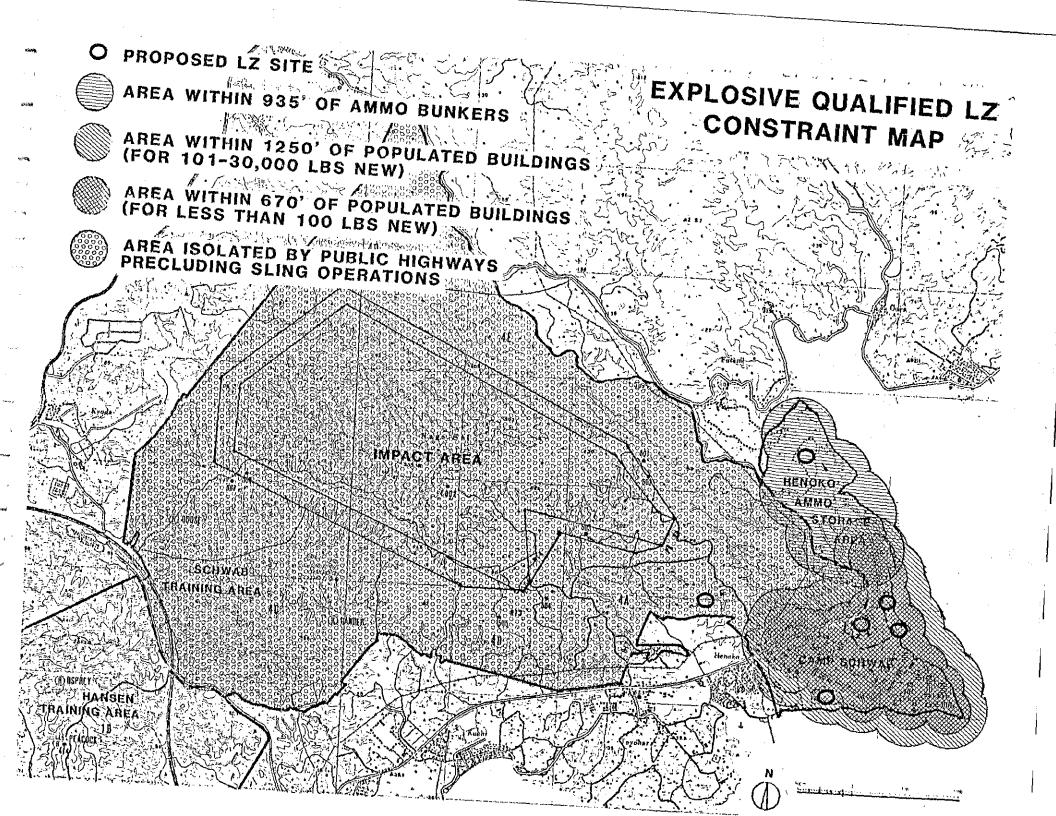


PLATE E-12



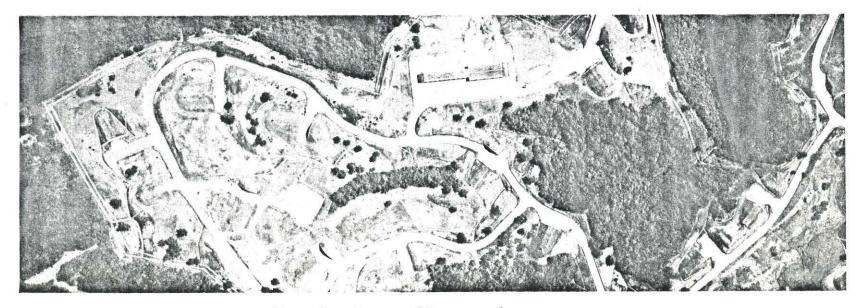


all Marine Corps Training Areas is being developed by the Public Works Branch of the Facilities Engineer Division in conjunction with the Base Range Officer, with the goal of achieving an integrated range complex for fire and manuever, supported by artillery and rotary/fixeding aircraft.

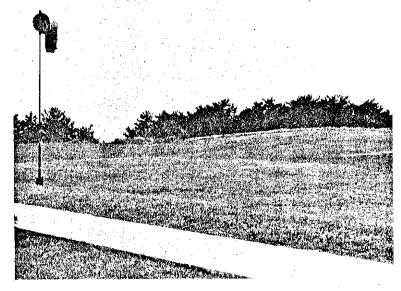
Plate E-12 shows a proposed track vehicle trail through the Central Training Area linking Camps Schwab and Hansen and Plate E-13 further delineates the existing Camp Schwab portion of the road. A portions of the Hansen Training Area road is proposed as part of the Kanna Dam Construction by the Government of Japan, and the remainder of the road is to be constructed as a GOJ-initiated Facilities Improvement Project, for survey in JFY87, with probable design in JFY88 and probable construction in JFY89.

7. EXPLOSIVE QUALIFIED LANDING ZONE

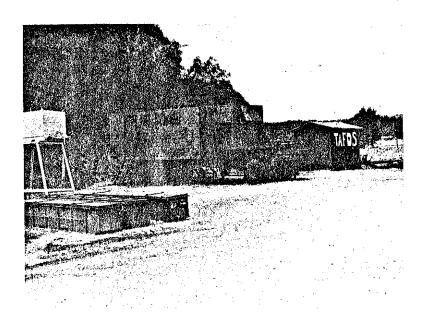
An Explosive Qualified Landing Zone (EQLZ) is required for ammunition vertical replinishment (VERTREP) operations, conducted from Henoko to vessels afloat. The existing non-Explosive Qualified LZ in Henoko (which is currently inoperable because it is within the ESQD Arcs) is less than 300' from Magazine 1ACX21, far less than the required 935' minimum distance between heliports and magazines containing 30,000 pounds of high explosives required by Table 5-21 of NAVSEA OP5 Volume 1. Several other sites were investigated (See Plate E-14) but all failed to meet NAVSEA OP5 criteria. Consideration was also given to use of the Fire Protection



Henoko Ammo Storage Area



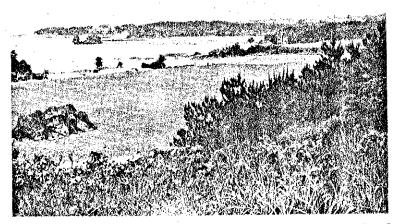
VIP Helipad, vicinity Building 3329



TAFDS Refueling operations at 3212-A



Helipad 3212-A on Parade Ground



Overview of Parade Ground and 3212-A

Tactical Aviation Fuel Dispensing System

Air Operations

吊餐

helipad on the west side of Highway 239 in the Schwab Training Area. However, sling loading across public roads is prohibited by COMMARCORPSJAPAN policy. Accordingly, no site satisfying all required criteria was identified VERTREP Operations are not possible at this time. The feasibility of a man-made projection beyond the shoreline has not been investigated because the cost-benefit for such a project is not considered sufficient.

8. PROPOSED OUT-YEAR PROJECTS

Section H, the Capital Improvements Plan, identifies projects for known facilities requirements which have been programmed or proposed through the year 1992. However, plans are underway to develop project documentation for other projects, to be introduced into the host-nation Japanese Facilities Improvement Program (see Section G) for contructed starting 1993. These projects are listed in Table E-5,

TABLE E-3

OUT-YEAR PROJECTS CAMP SCHWAB

BOAT HOUSE	1,176	SM	\$ 500,000
RECREATION LODGE	30	UN	\$ 1,700,000
MARINA	1	EA	\$ 900,000
EDUCATION CENTER	743	SM	\$ 1,100,000
SKEET/TRAP RANGE	1	EA	\$ 200,000
BASEBALL/FOOTBALL FIEL	D 1	EA	\$ 200,000
BANK/CREDIT UNION	239	SM	\$ 400,000
HOBBY SHOP	697	SM	\$ 1,000,000
SPEC SERVICES ISSUE OF	C 131	SM	\$ 200,000
EM CLUB	1,831	SM	\$ 2,000,000
SNCO CLUB	629	SM	\$ 700,000
PLAYING FIELDS	1	EA	\$ 100,000
GYMNASIUM	734	SM	\$ 900,000

OUT-YEAR PROJECTS HENOKO

ORGANIC UNIT STORAGE	372 SM	\$	300,000	
RECREATION BUILDING	418 SM	. \$	600,000	
OUTDOOR PLAYING COURTS	3 EA	\$	100,000	
PLAYING FIELD	1 EA	\$	100,000	

and the Total

F. DEVELOPMENT CONCEPTS

1. PROGRAM DYNAMICS

Between the publication of the draft Master Plan in September 1985 and the final Master Plan in February 1987, four new building footprints were added during a 17 month evolution: the LAV Maintenance Shop, a Hazardous Waste Storage Building, a Gas Chamber, and an expanded Telephone Exchange. Additionally, a Fire Protection System was constructed in the Schwab Training Area, including firebreaks and two water holding ponds for use during airborne firefighting operations. These Projects are shown by Plates F-1 and F-2 (Newly Completed Construction).

As shown by Plates F-3 and F-4 (Under Construction), two more footprints have broken ground, an addition to the Enlisted Club (Building 3652) and a Small Arms Magazine at Henoko (a relocation project from ASP-2 under the Okinawa Expressway Relocation Program). Additionally, three Mess Halls will be upgraded and the swimming pool renovated.

Camp Schwab and the Henoko Ammunition Storage Area have not experienced the "boom town" construction afforded Camps Hansen, Kinser, and Courtney under the host-nation construction program, yet an acceleration of construction activity will be experienced in the near future. It should be pointed out that resiting may occur at any time in the host-nation funding arena, due to the volatile nature of funding, political pressure from local government or interest

groups, or archeologocial discovery at the job site. While the reconfiguration of facility sitings occurs for a variety of reasons, the two most prevalent are host-nation resistance to the original siting and the inability to clear a proposed site of incumberences such as existing Marine Corps structures or Okinawa family tombs.

Accordingly, program dynamics remains a "wild card" in conceptual masterplanning and site development, and is considered a formidible constraint to the Master Plan.

2. NATURAL CONSTRAINTS

Natural Constraints for Camp Schwab are illustrated by Plates F-5 (Natural Vegetation Map), F-6 (Camp Schwab Slope Map) and F-7 (Henoko Slope Map).

A. NATURAL VEGETATION

The limited natural vegetation at Camp Schwab (in the floodplain of the Henoko Bisha-gawa and along the ridgeline parallel to Green Street) should be retained as a visual resource and for erosion control. Several plant species, while not protected by law under any legal status, are nevertheless considered "rare" by local botanists. Prior to any construction in these areas (depicted on Plate F-5), further investigation under an Environmental Assessment is recommended.

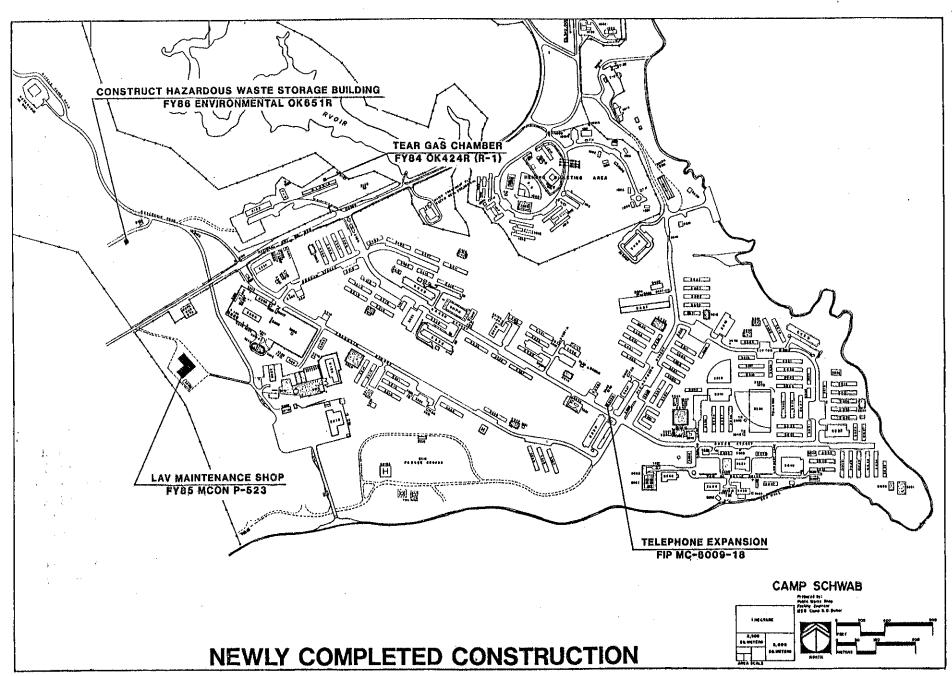
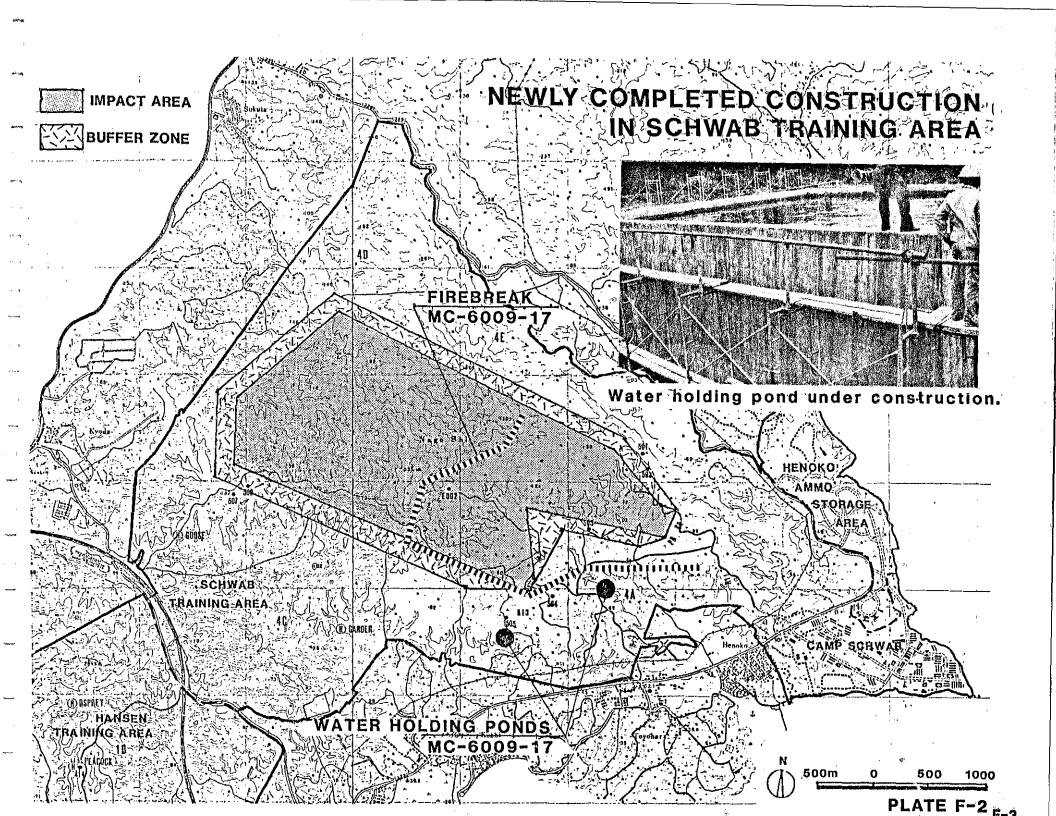


PLATE F-1



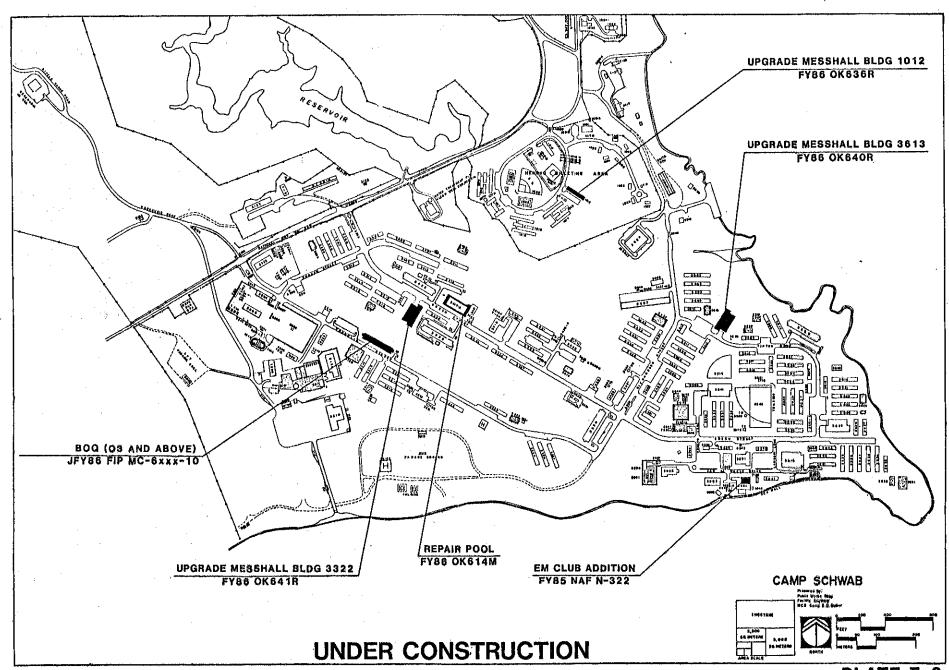
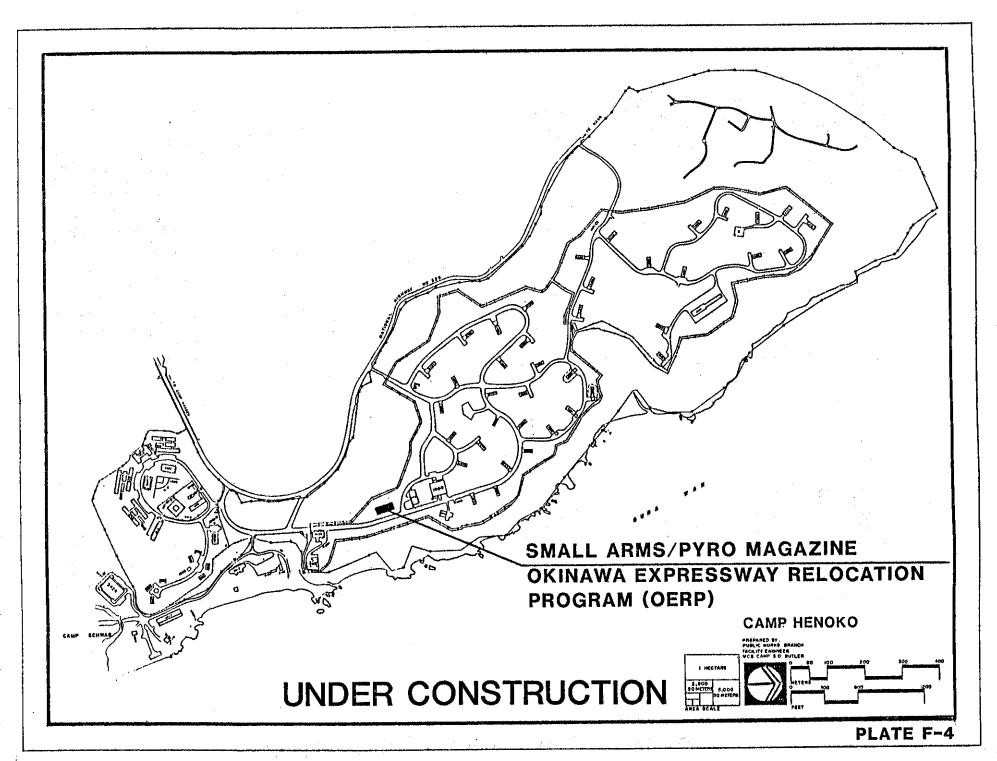
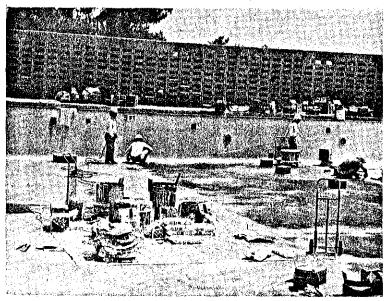


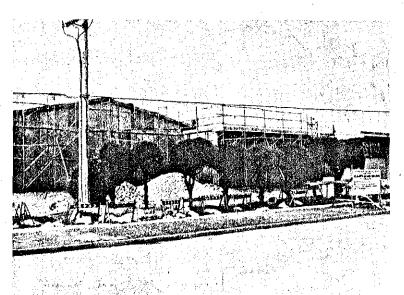
PLATE F-3



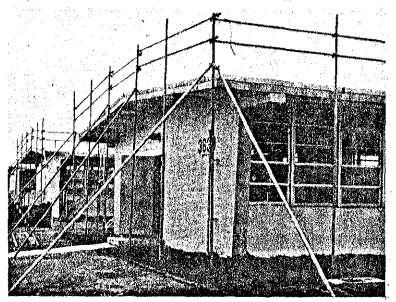
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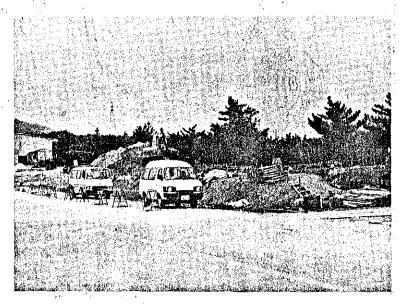
Swimming pool 3417-A under rehabilitation.



Addition to EM Club, Building 3652



Reroofing of BEQs



JFIP BOQ MC-6xxx-10

Construction Activity, June 1987

B. STEEP SLOPES

Slopes greater than 10% (see Plates F-6 and F-7) are costly for construction and should be avoided. The use of these sites for borrow and fill was recently investigated and a summary of recommendations is provided by Plate F-20.

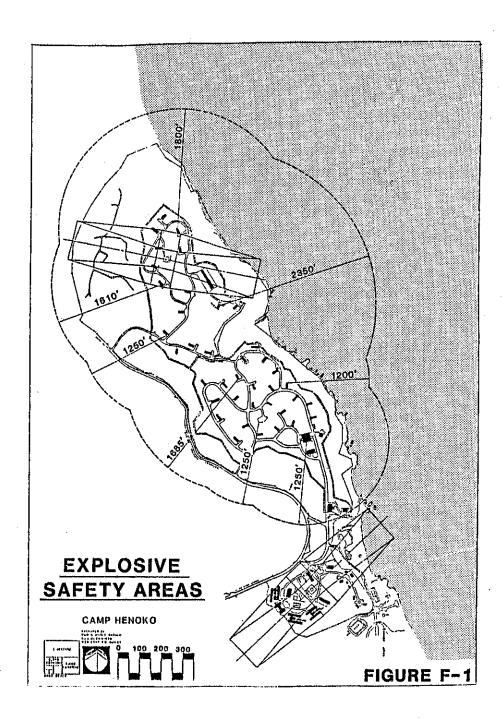
3. MAN-MADE CONSTRAINTS

Man-made constraints at Camp Schwab cantonment area are illustrated by Plate F-8 and at Henoko by Plate F-9. Explosive Safety Quantity Distance (ESQD) Arcs at Henoko are illustrated by Figure F-1.

A. HELICOPTER OPERATIONS

As shown by Plate F-8, there are two operational helicopter pads at Camp Schwab. One pad is located on the parade grounds adjacent to the Tactical Aviation Fuel Dispensing System (TAFDS) and is used for helicopter refueling. It is considered adequate for all operations at Camp Schwab. The second pad is located near BOQ Building 3329 on Franklin Street and is used for VIP landings. Its use will be discontinued with the construction of a new BOQ (JFY89 FIP MC-6XXX-18) in the immediate vicinity of the pad.

The Henoko helicopter pad (see Plate F-9) is located within the ESQD arcs and is inadequate due to location. However, no substitute location is available and the pad is carried for inventory purposes. Currently, the softball field adjacent to Building 1017 is used as a helicopter pad.



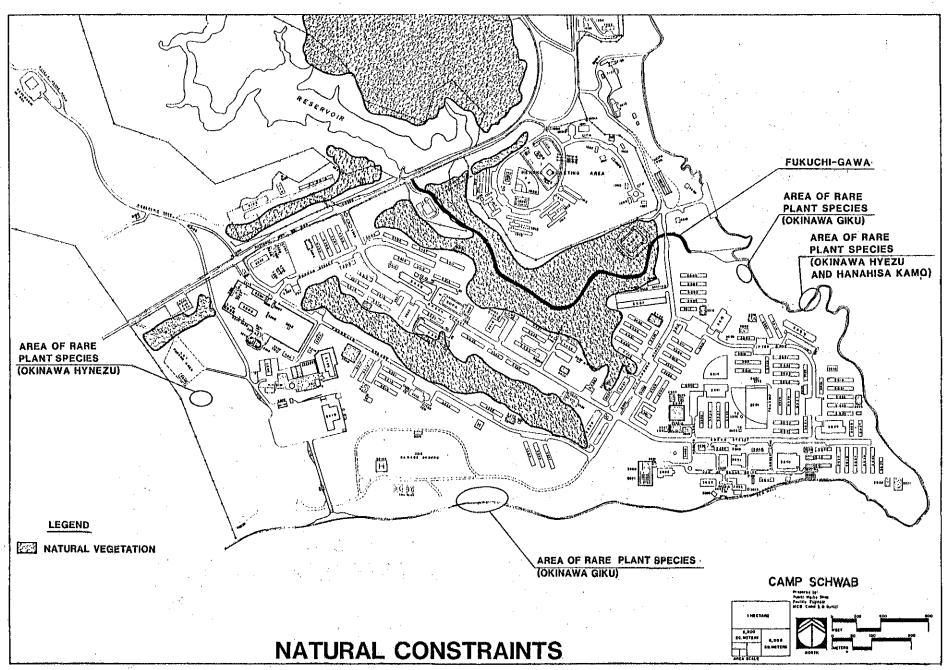


PLATE F-5

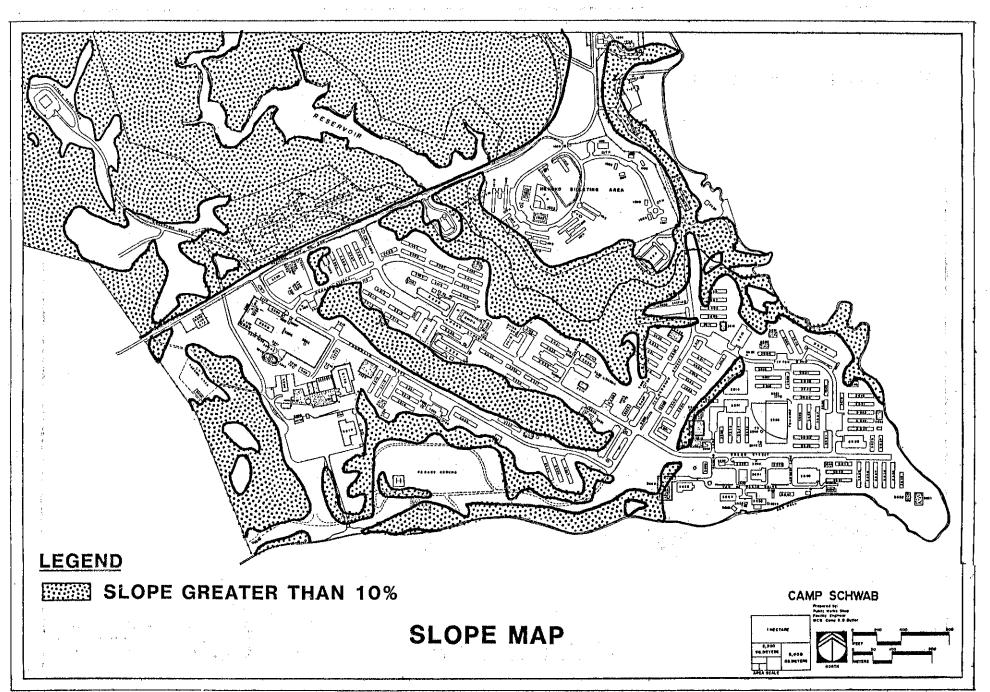
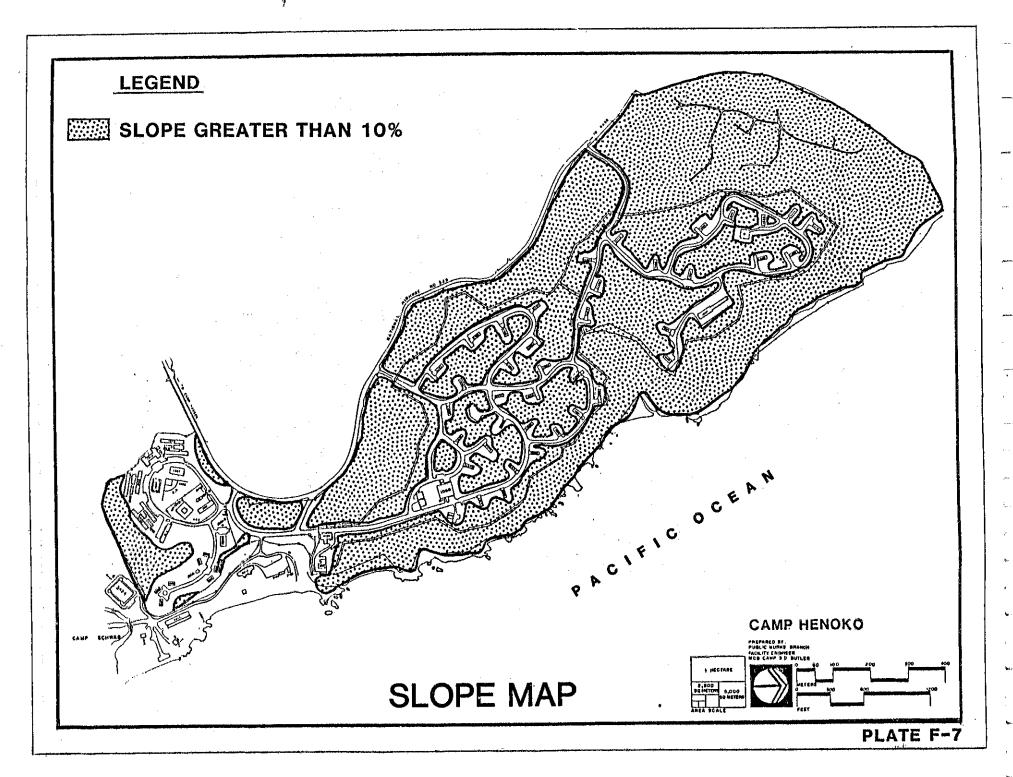


PLATE F-6



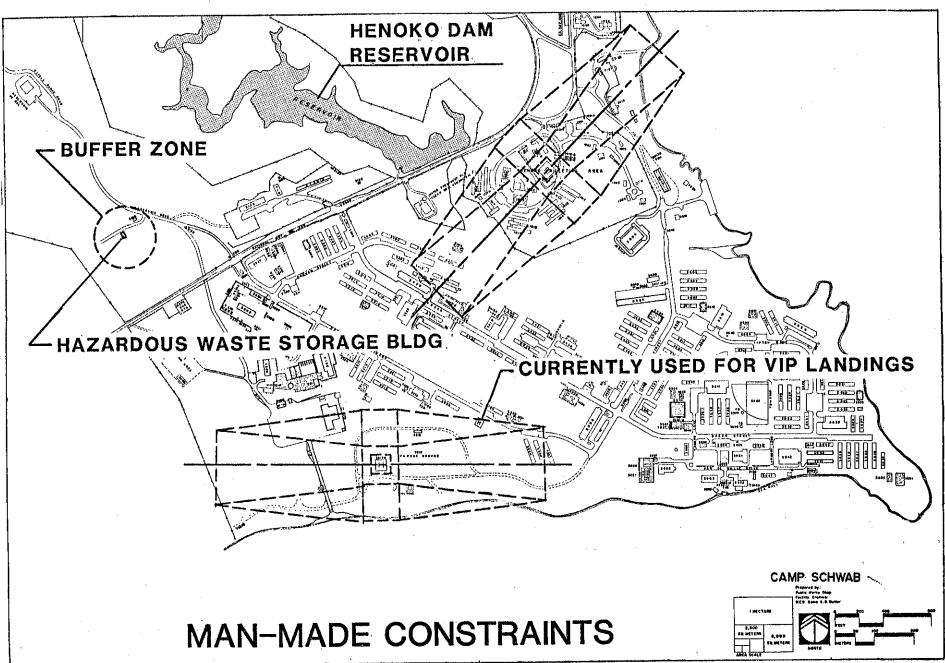
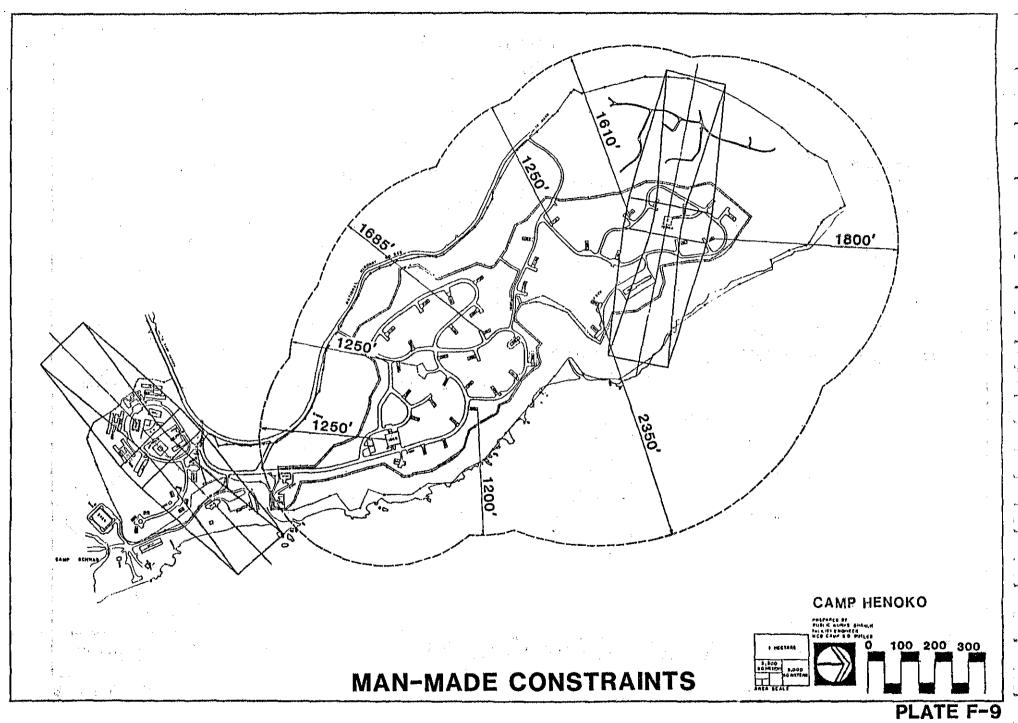
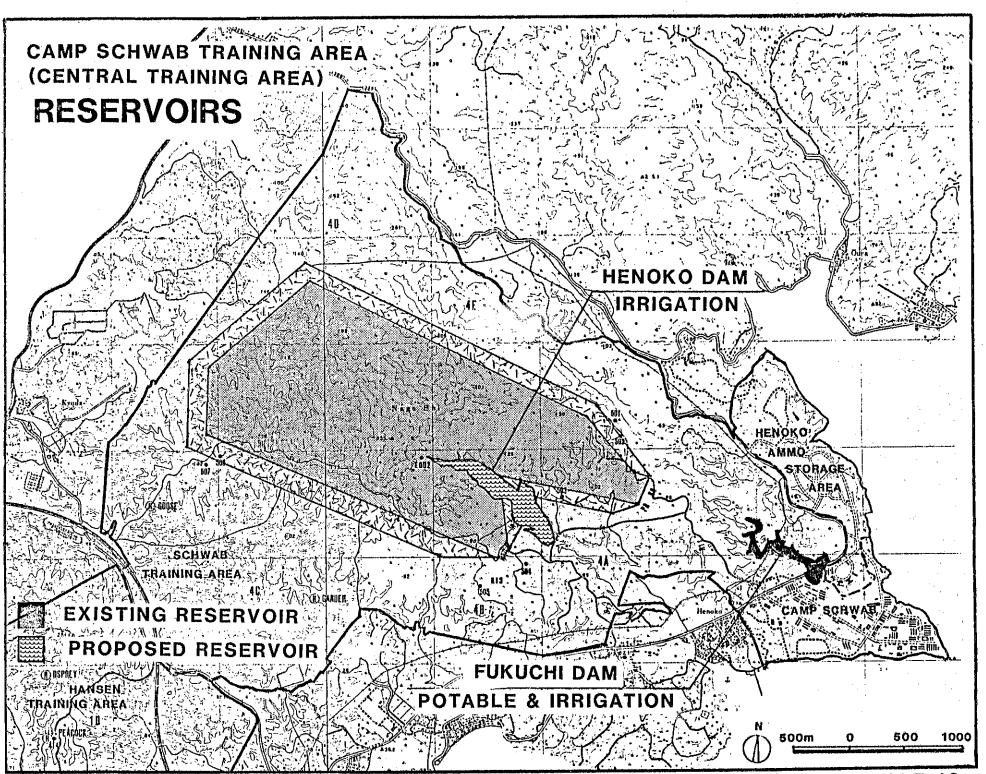
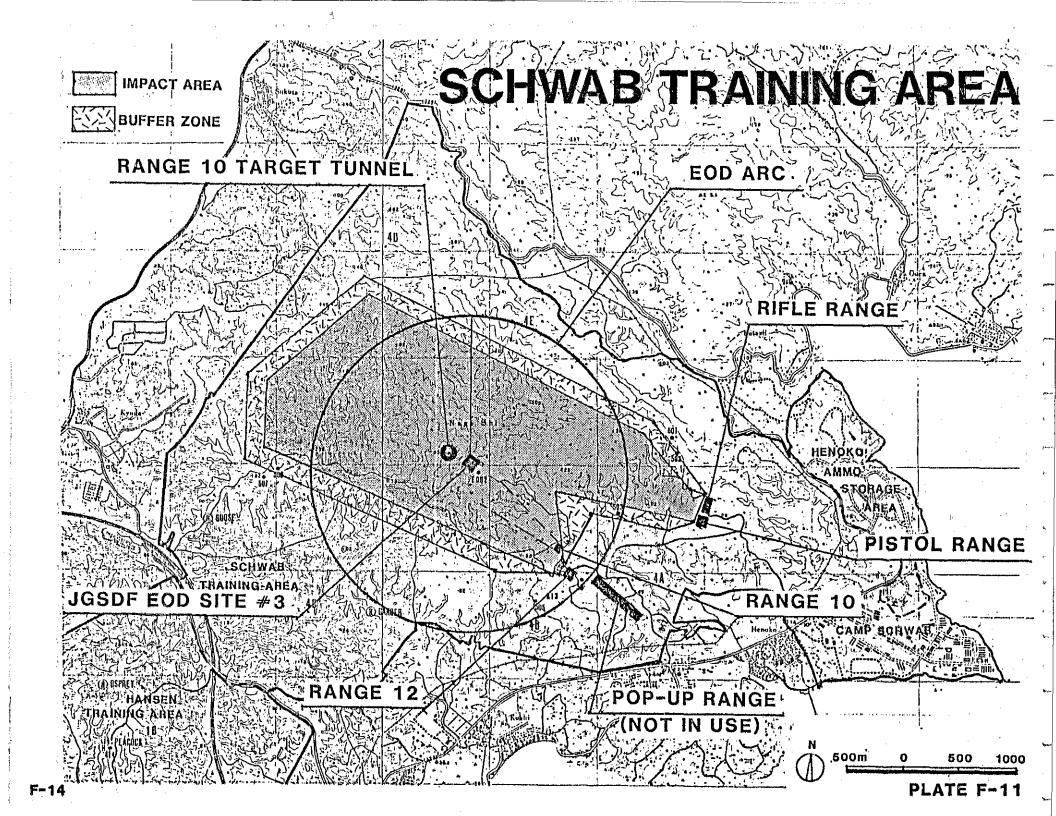


PLATE F-8









B. MAN-MADE RESERVOIRS

The existing Camp Schwab Reservoir (on the Henoko Bisha-gawa) and the proposed Henoko Reservoir are shown by Plate F-10. The Camp Schwab Reservior does not represent a major constraint, but a study is underway to develop a flood risk map associated with the floodway of the Fukuchi-gawa in case of dam failure. The proposed Henoko Reservoir encroaches the Schwab Impact Area and the proposed Schwab-Hansen Tracked Vehicle Trail, discussed later in this Section.

C. RANGE FANS AND IMPACT AREAS

As shown by Plate F-11, Camp Schwab has a rifle range and a pistol range, each with 50 firing points. A Japanese Ground Self-Defense Force (JGSDF) Explosive Ordnance Disposal (EOD) site, generating a 1,500 meter ESOD arc, is also located in the Schwab Impact Area.

D. HAZARDOUS WASTE STORAGE BUILDING

A newly constructed 1,500 square foot Hazardous Waste Storage Building, sited north of Highway 329, generates a safety arc of 50 feet.

E. HENOKO ESQD ARCS

Explosive Safety Quantity Distance (ESQD) Arcs generated by the Henoko Ammunition Storage facility are shown by Figure F-1. Fifty active duty and four Japanese National Security Force personnel work inside the arc during normal working hours and four Security Force personnel

after working hours. As shown by Plate F-12 four on-station facilities are within the arc, used during normal working hours: Building 1073 (Storage, Smoke Room, Lunch Room, Lockers) is assigned one employee, Building 1060 (Classroom, Ordnance Shop, Inert Facility, Generator Facility) is assigned 10 personnel, Building 1050 (Operations) is assigned 28 personnel, and Building 1052 (Security) is assigned 5 personnel.

Portions of Highway 329 to the west, farm land to the north, and Ora Wan Bay to the east are within the ESOD arc. The affected land outside the northern boundary is privately owned agricultural land of irregular terrain, with ridges and gullies. Ora-Wan Bay lies to the east of Henoko, and despite "exclusive use" within the Schwab Water Training Area, is occasionally trespassed by fishing boats. Although Highway 329 traverses inside the explosive safety zone; the magazine loading plan (see Appendix L-3) generally conforms with the highway distance requirements of NAVSEA OP-5. The following waiver and exemptions, approved by CNO letter serial 411F/6U395271 dated 26 September 1986, are in effect at Henoko Ammunition Storage Area.

1. CNO WAIVER NO. USMC HENOKO IC-78

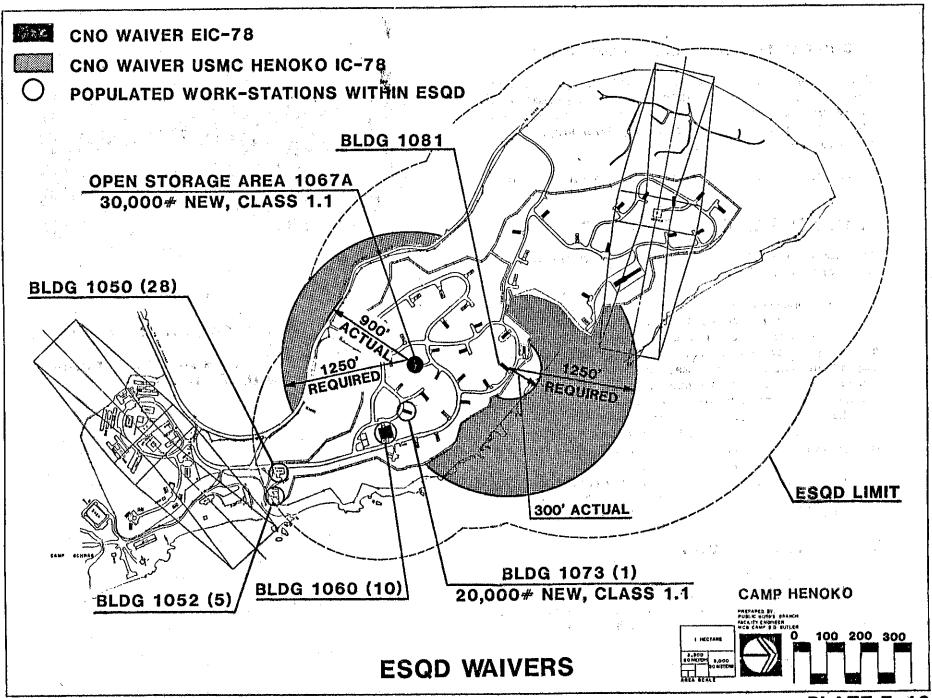
This waiver authorizes deviations from Table 5-4 of NAVSEA OP-5 for Building 1081 and Tables 5-4, 5-9, and 5-10 of NAVSEA OP-5 for open storage area 1067A to permit storage of up to 30,000 pounds NEW of Class 1.1 (or equivalent) explosives in Building 1081 and 20,000 pounds NEW of Class 1.1 (or equivalent) explosives in area 1067A. This waiver expires 30 April 1988.

CNO EXEMPTION NO. USMC CAMP HENOKO E1C-78
AUTHORIZED AMMUNITION STORAGE

TABLE F-1

Bldg./Magazine	Class (Category)	NEW (pounds)
1060 Bay 3	1.1	600
1064	1.2 (12)	500,000
1065	1.1	10,000
1066	1.1	25,000
1067	1.1	30,000
1071	1.2 (08)	No Limit
1072	1.1	6,500
1080	1.2 (12)	500,000
1082	1.2 (12)	500,000
1083	1.1	100,000
1084	1.1	55,000
1085	1.1	30,000
1091	1.1	55,000
1092	1.1	20,000
1093	1.2 (18)	500,000
1094	1.1	20,000
1095	1.1	30,000
1096	1.1	65,000
1098	1.1 (21)	25,000
1106	1.1	25,000
1109	1.2 (12)	500,000
1110	1.1	20,000
1111	1.2 (12)	500,000
1112	1.2 (12)	500,000
1097 (All cubicles-See Note)	Mixed	45,000 Total

Note: Building 1097 is a multi-cube magazine. Therefore, to determine the inhabited building ESQD are the total equivalent NEW (45,000 pounds) of Class 1.1 material in the building must be used. The inhabited building ESQD are for 45,000 pounds of Class 1.1 material is 1,425 feet and should be reflected on the station ESQD map.



2. CNO EXEMPTION NO. USMC HENOKO EIC-78

This exemption authorizes deviations from Tables 5-4, 5-13, and 5-14 of NAVSEA OP-5 to permit the storages listed in Table F-1 whose associated ESOD arcs extend beyond the Camp boundary. This exemption expires 30 April 1989.

A summary of CNO exemptions is shown as Table F-1.

4. CULTURAL CONSTRAINTS

As shown on Plate F-13, several cultural assets are evident at Camp Schwab.

Several tombs are located immediately west of Camp Schwab. Okinawa culture respects ancestor worship and the tombs often contain the ashes of ancestors. To many Okinawans, the family tomb is more important than their home, since it will become their permanent residence after death. Mounds indicate previous settlement, usually of pre-historic Jomon and Yayoi time periods, as evidenced by broken shards, other artifacts, and discarded shellfish. Without detailed occassioned excavation, by archeological investigation or construction activity, it is impossible to tell the significance individual Shell Mounds

5. ENCROACHMENT

Encroachment on USMC real property is considered to be any action or development, planned or executed, on non-Marine Corps owned real property whichinhibits, curtails or possesses



Friendship garden presented by City of Nago...
... security fencing around Schwab Training Area



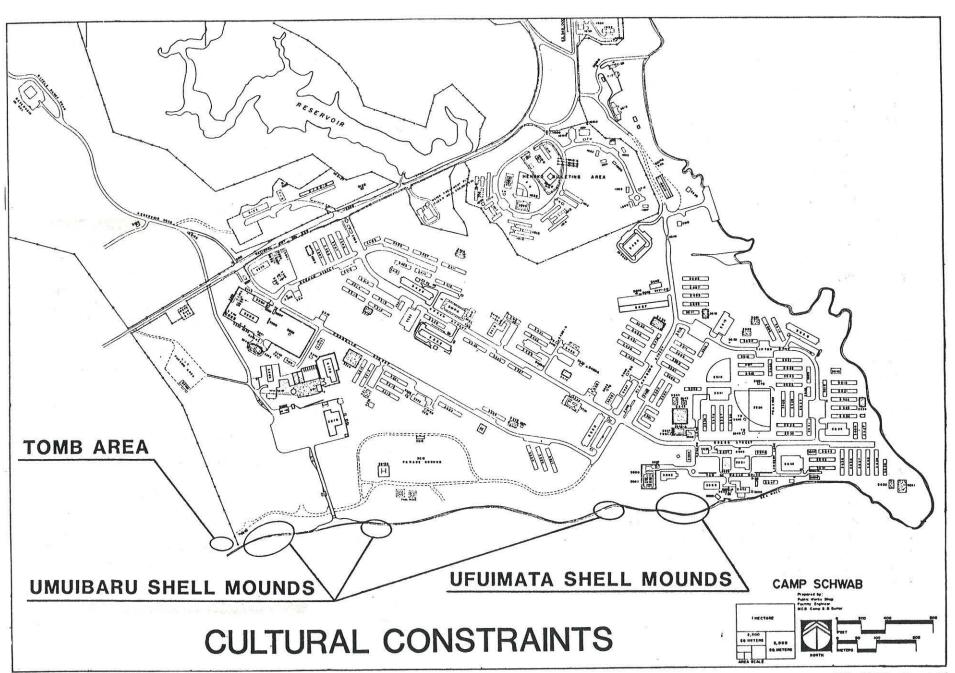


PLATE F-13

the potential to impede the performance of the mission of the installation. In local useage at MCB Camp Butler, the term encroachment is also used to define any action or development on the installation itself, such as trespassing in the form on unlicensed improvements, easements, or emblements (such as crop growing).

Existing and proposed reservoirs are shown by Plate F-10 and proposed land releases and other encroachments by Plates F-14 and F-15. Encroachments which were considered by the Master Plan include:

A. PROPOSED LAND RELEASES

Several parcels of land are proposed for release by various Facilities Subcommittee (FSC) Memoranda of the Joint U.S.-Japanese Committee. These proposed releases are shown on Plate F-14, with reference to FSC document numbers.

B. PROPOSED HENOKO DAM

The Proposed Henoko Dam was considered in relation to the proposed Hansen-Schwab Tracked Vehicle Road and the siting of the Small Arms Remote Target System (SRTS) for FY87 environmental construction. Although assessments for GOJ-initiated construction (such as the Henoko Dam) are a responsibility of the Defense Facilities Administration Agency (DFAA), the issue of heavy metal contamination of the irrigation reservoir was considered during the planning process.

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C. EXPERIMENTAL FORESTRY STATION

As shown by Plate F-14, a 160 acre Experimental Forestry Station is used by the Prefectural Government within the Schwab Training Area. This land was considered constrained for purposes of the Master Plan.

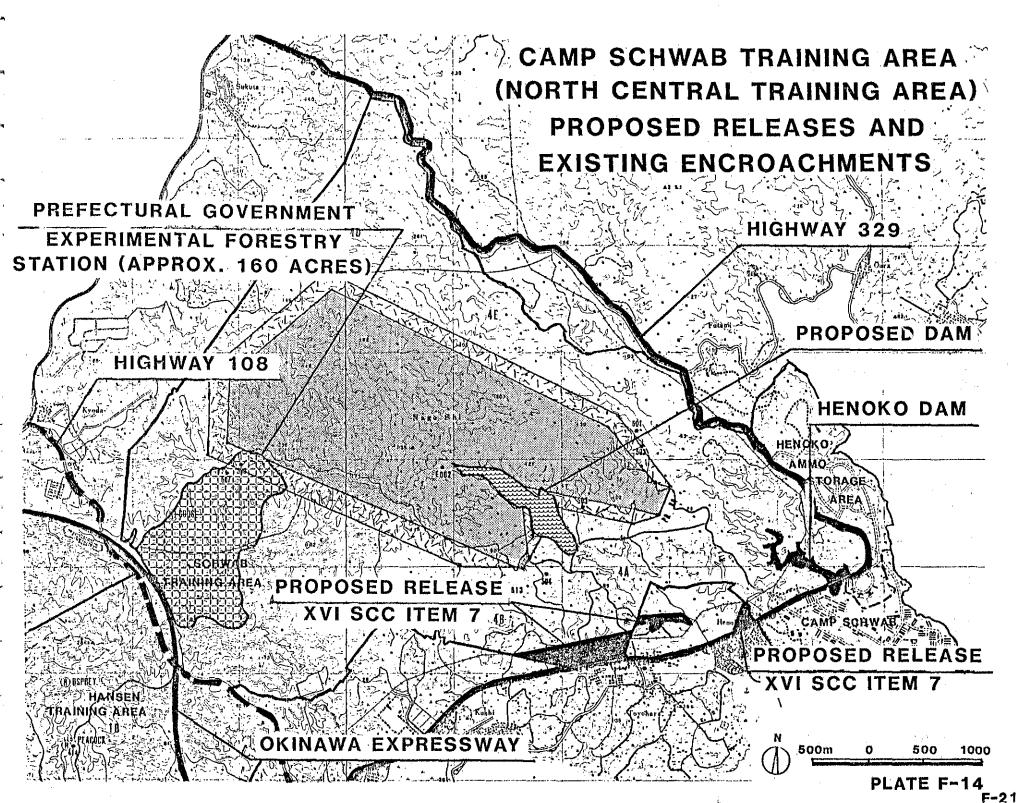
D. RELEASE AND JOINT USE OF WATER AREAS

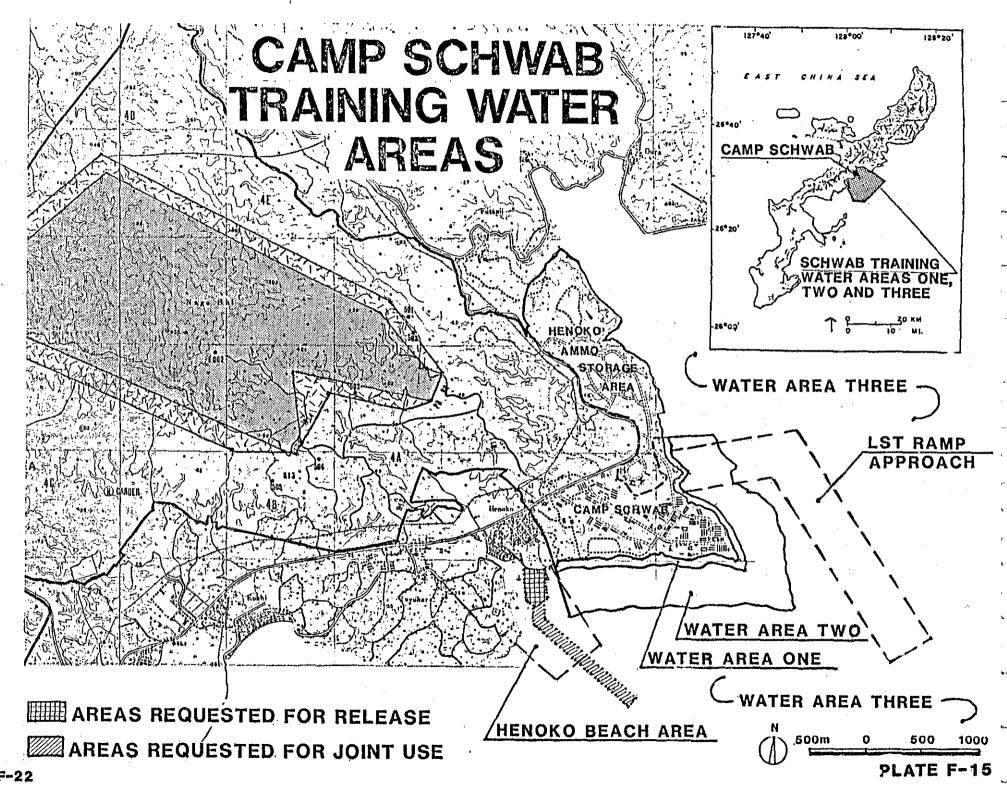
72,000 square meters (17.79 acres) of the Schwab Water Training Area was released on January 1987 to the village of Henoko to dredge a channel for a fishing port. An additional 45,404 square meters (11.22 acres) was partially released to provide right-of-way to the port facility. While these releases of themselves have little impact on training operations in the Schwab Water Area, the increased fishing activity generated by new port facilities may have long-range impact. The water areas involved are shown by Plate F-15.

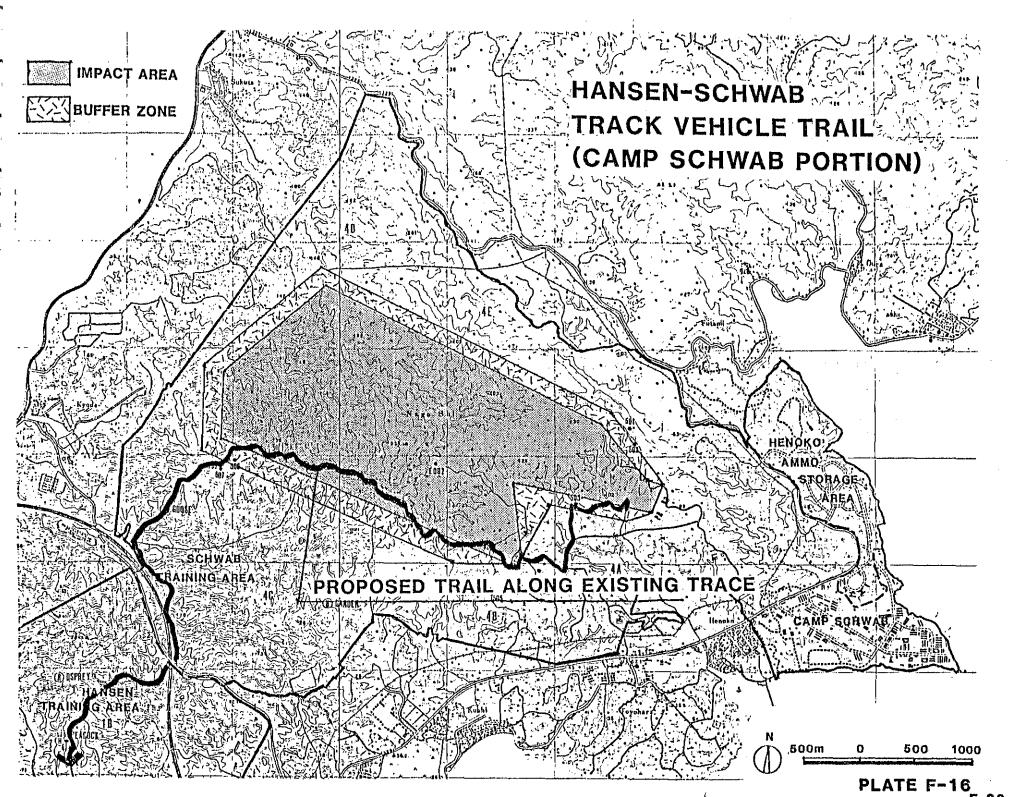
6. LONG-RANGE ISSUES

A. EXPLOSIVE QUALIFIED LANDING ZONE

As discussed in Section E, there is a requirement for an Explosive Qualified Landing Zone (EQLZ) for ammunition vertical replinishment (VERTREP) operations, conducted from Henoko to vessels afloat. Although no site satisfying all required criteria has been identified and VERTREP operations are not possible at this time, the issue will continue to be explored for long-range resolution of the requirement.





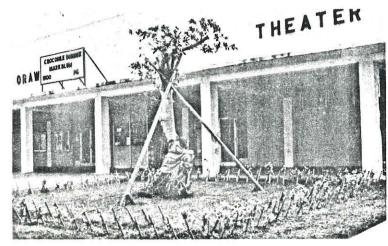


B. HANSEN-SCHWAB TRACKED VEHICLE TRAIL

As discussed in Section E, there is a requirement for a tracked vehicle trail through the Central Training Area linking Camps Schwab and Hansen. Although portions of the Hansen Training Area road are proposed sa part of the Kanna Dam Construction to be accomplished by the Government of Japan, a definitive plan to accomplish the full requirement is to be surveyed by the Government of Japan in JFY87, with design probable in JFY88 and construction probable in JFY89. The portion of the road passing through Camp Schwab is illustrated by Plate F-10.

C. CONSOLIDATED ORDNANCE STORAGE STUDY

A Consolidated Ordnance Storage Study is being developed under contract to the Army Corps of Engineers, Japan Engineer District, to provide U.S. Forces, Japan (USFJ) with an analysis of

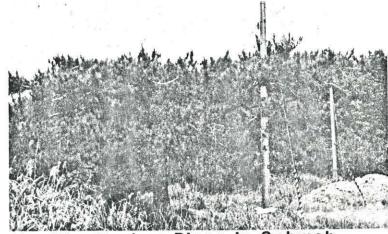


BEAP landscaping at Base Theater.

potential ordnance storage capability availabdu on Okinawa. The Pre-Final Report issued December 1986 suggests the possibility of storage of certain Class/Division 1.2, 1.3, and 1.4 ordnance as well as the existing 1.1 ammunition, but "factors lead to the conclusion that storage at the Henoko site should be limited to the items and amounts expended in the training areas". The Marine Corps concurs with this finding and the Final Report is not expected to precipitate any long-range planning requirements for Henoko Ammunition Storage Area.

7. ENVIRONMENTAL ISSUES

Several issues concerning the environment and environmental health have possible effects on the Master Plan:



Healthy Ryukyu Pines in Schwab Training Area.

A. BEETLE ERADICATION PROGRAM

The pine bark beetle (Monochamus alternatus Hope), carrier of the pine bark nematode (bursaphil enchus lignicolus) was accidently introduced to Okinawa in a shipment of pine lumber from mainland Japan in 1972. The adult beetle emerges April-May and deposits the nematode upon contact with the pine tree. The nematode then feeds on the tree's tissue, and during the process of reproduction kills the Ryukyu Pine (Pinus luchensic Majr), turning the evergreen needles a rust color.

The Okinawa Prefectural Government (OPG) in 1975 developed a program for cutting and burning of infested pine trees and use of aerial sprays. At the same time, MCB Camp Butler cut and burned 31 trees at Camp Hansen and 30 trees at ASP#2 during the summer of 1980. An OPG survey in October 1980 still listed 518 trees at Hansen, 95 trees at Schwab, and 73 trees at ASP#2 as infected. By 1981, 44 additional trees were found to be infected at Camp Schwab and 2,500 more at Camp Hansen.

A 1982 survey identified further infestation and the OPG initiated a plan to create a barrier two kilometers wide across the island, cutting through the Camp Hansen portion of the Central Training Area, as shown by Plate F-17. All infested trees were to be cut and burned, and aerial spray applied to all standing trees. As the Ryukyu Pine is the prefectural tree, it is culturally as well as ecologically important to Okinawa. The cost of the program to MCB Camp Butler is illustrated by Table F-2. The

eventual impact on Camp Schwab, should the pine bark beetle jump across the barrier, is the destruction of areas of natural vegetation, which play an important part in the Base Beautification Plan, discussed in paragraph 7 of this Section. Damages resulting from the infestation have been reduced in the civilian areas of Okinawa from a peak of 16,891 cubic meters in 1982 to only 8,854 cubic meters in 1984. The Prefectural goal is to reduce the damage to 3,000-4,000 cubic meters by the end of JFY 1986.

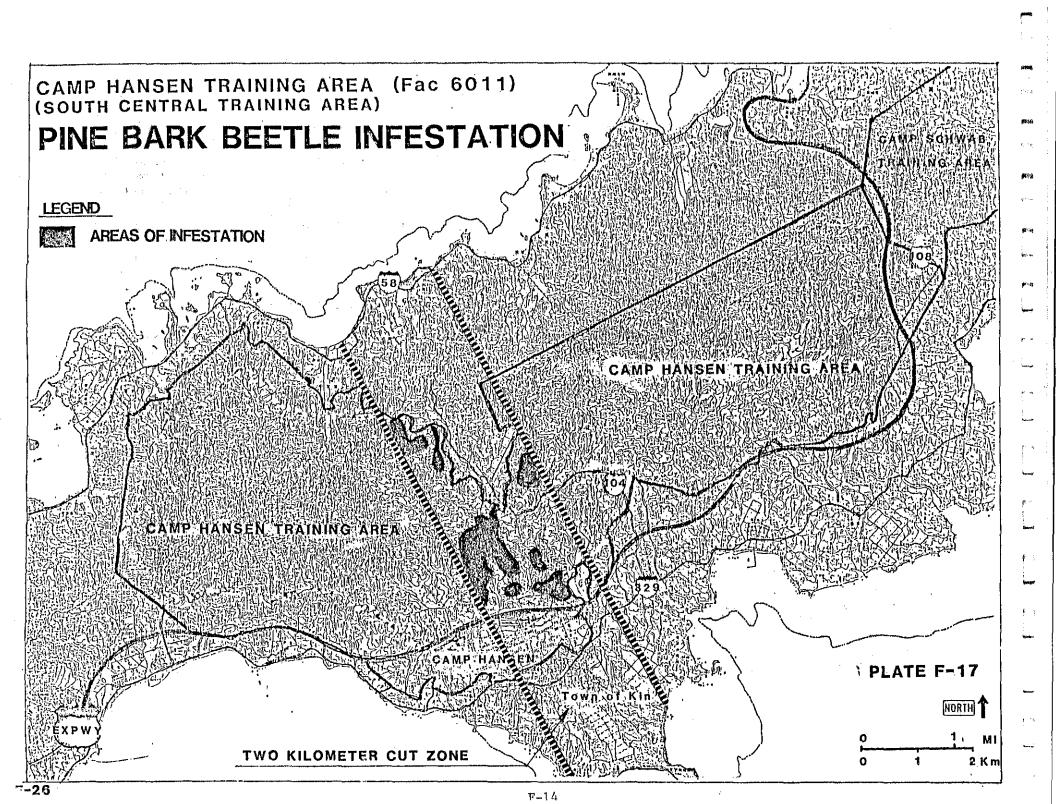
B. ASBESTOS SURVEY

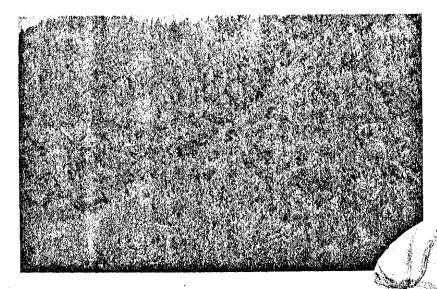
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Sampling and analysis efforts at Camp Schwab and the Henoko Ammunition Storage Area have found positive asbestos (both friable non-fraiable) at several facilities, indicated A more detailed study is by Plate F-18. currently underway to determine the Hazard Index of the Asbestos Material, as developed by the Navy Civil Engineer Laboratory Technical Report R-883. Based on the results of this study, cost estimates will be developed to remove, replace and dispose of asbestos materials in accordance with current OSHA and EPA criteria and regulations.

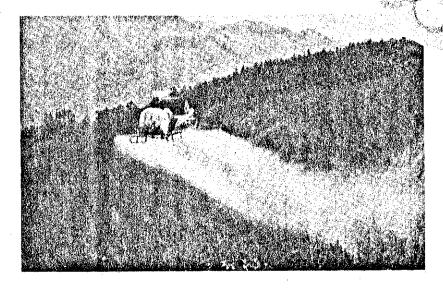
C. MELON FLY ERADICATION PROGRAM

Melon flies are pests causing great damage to agricultural crops such as melons, watermelons, cucumbers, green peppers, tomatoes, and papaya fruit. Due to the ocurrence of melon flies, the transportation of crops outside of Okinawa Prefecture is limited or restricted by

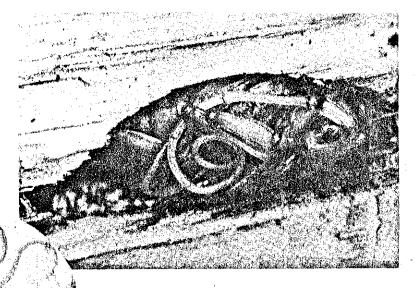




INFESTED PINE TREES

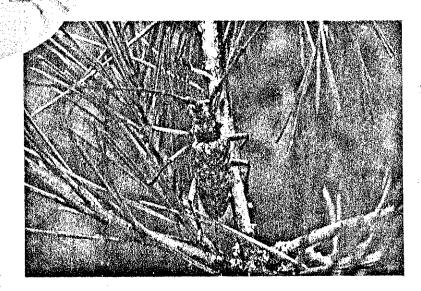


AERIAL SPRAY OPERATIONS

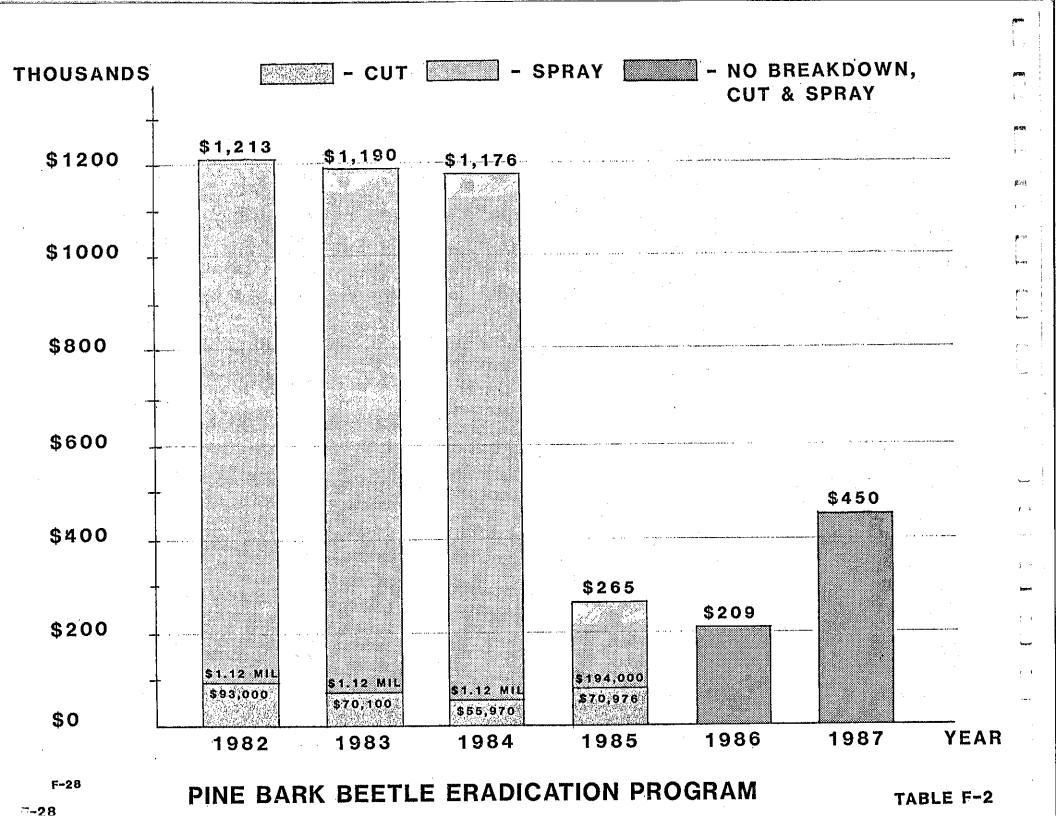


INFESTED PUPAE





ADULT PINE BARK BEETLE



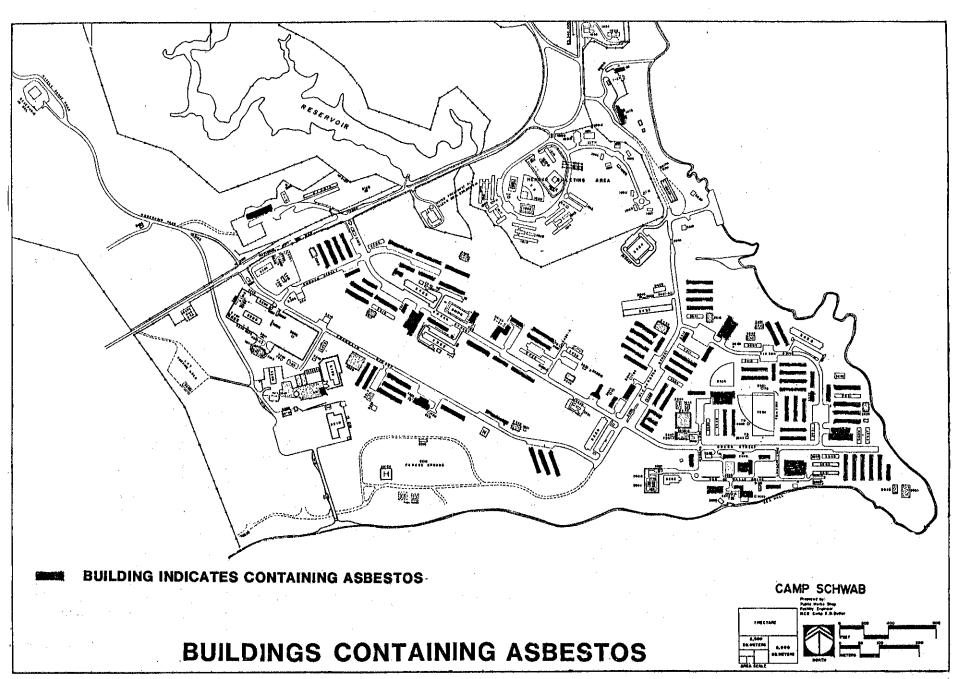
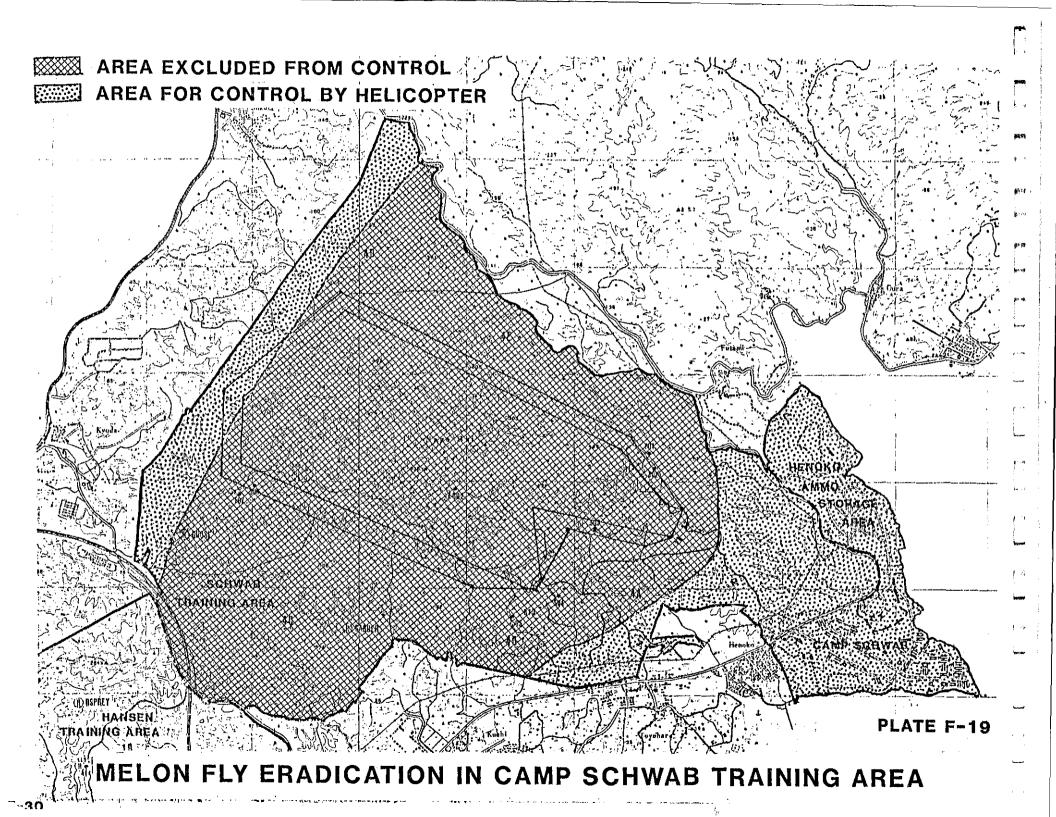
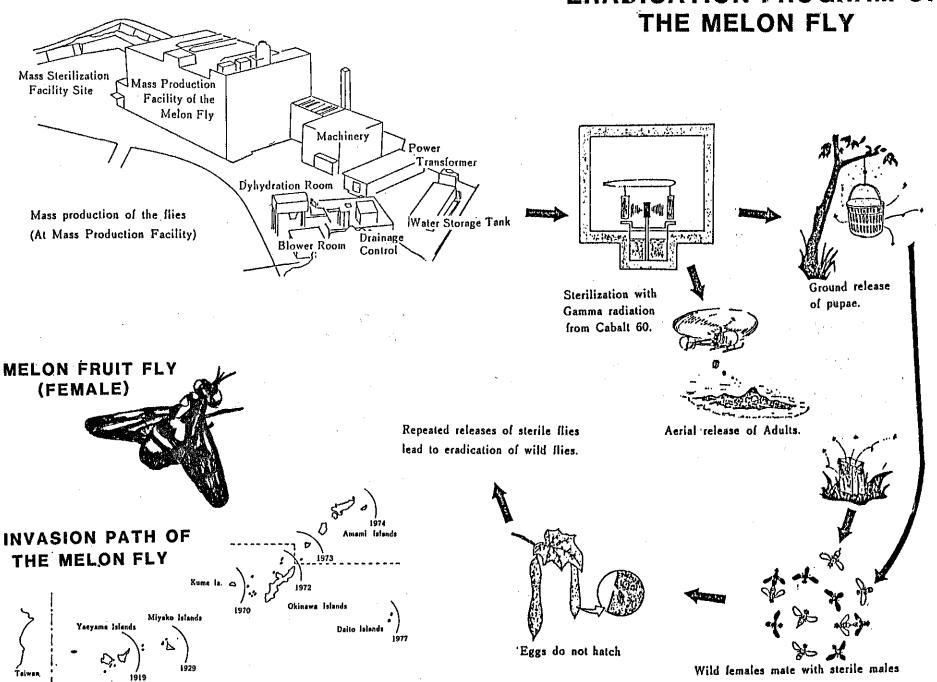


PLATE F-18



ERADICATION PROGRAM OF



Agricultural Pests Control Laws, becoming a major obstacle to the promotion of Okinawan produce. As a countermeasure, a program for eradication of the melon fly has been developed by the Prefecture: startinf with the Miyako Islands (1984-1987), then the Okinawa Islands (1986-1990), and finally the Yaeyama Islands (after 1989).

The flies will be eradicated by a sterile insect technique (SIT), first by reducing the population density by the use of attractant insecticides and then by the release of mass numbers of sterilized insects.

Camp Schwab is scheduled for operations starting March 1987, as shown by Plate F-19.

D. GOJ PLANTING

Additional planting by the GOJ as a conservation measure is illustrated by Plate F-20.

8. BASE EXTERIOR ARCHITECTURE PLAN

A. INTRODUCTION

The visual resources of Marine Corps Base Camp Butler present an uncontrolled landscape incongruous with traditional Marine Corps values of pride and professionalism. To correct that image, a Base Exterior Architecture Plan (BEAP) was developed with a design consultant, to provide guidelines which would enhance the exterior architecture of the various camps on Okinawa. Following a site inventory and

analysis (Plate F-21), the following was recommended:

1. PLANT MATERIALS

Plant materials should be used as common, unifying elements to improve both the esthetic and ecologic landscape.

2. BUILDING COLOR

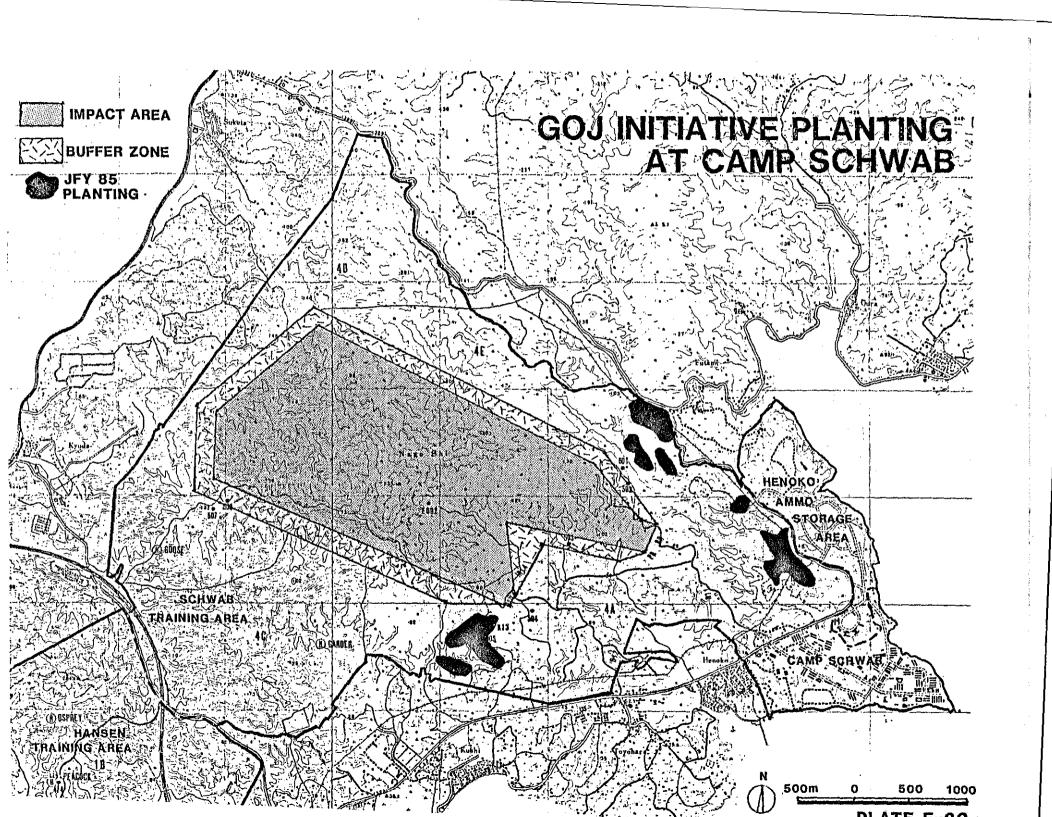
Building color should be used to present a neat and pleasing edifice, and to assist in the identification of building type.

3. STANDARD SIGNS

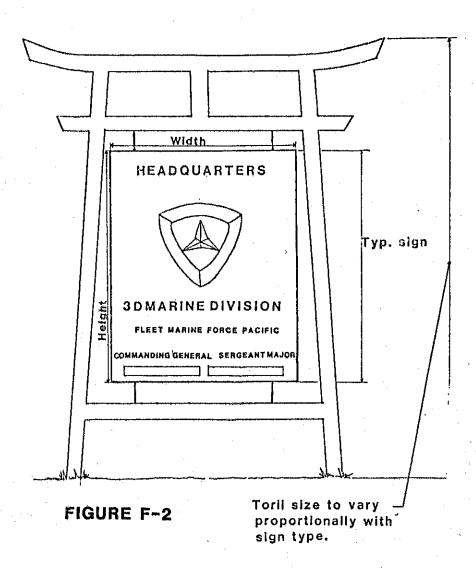
Standard signs should be employed, using standard lettering, to encourage a crisp and orderly appearance at Camp Butler. Mounted on a torii (see Figure F-2), unit signs use yellow letters on red background, community support activities use white letters on green background, and information signs use black letters on white background.

General landscape "treatments" were proposed, some of which are illustrated by Figure F-3. These treatments are meant as guides for the programming of repair, maintenance, and alteration of buildings and grounds at Camp Butler.

Building colors have been chosen which aid in the identification of building function. The predominant color will be beige with dark blue trim for headquarters, shades of brown trim for



GRAPHIC ILLUSTRATION OF STANDARD SIGN

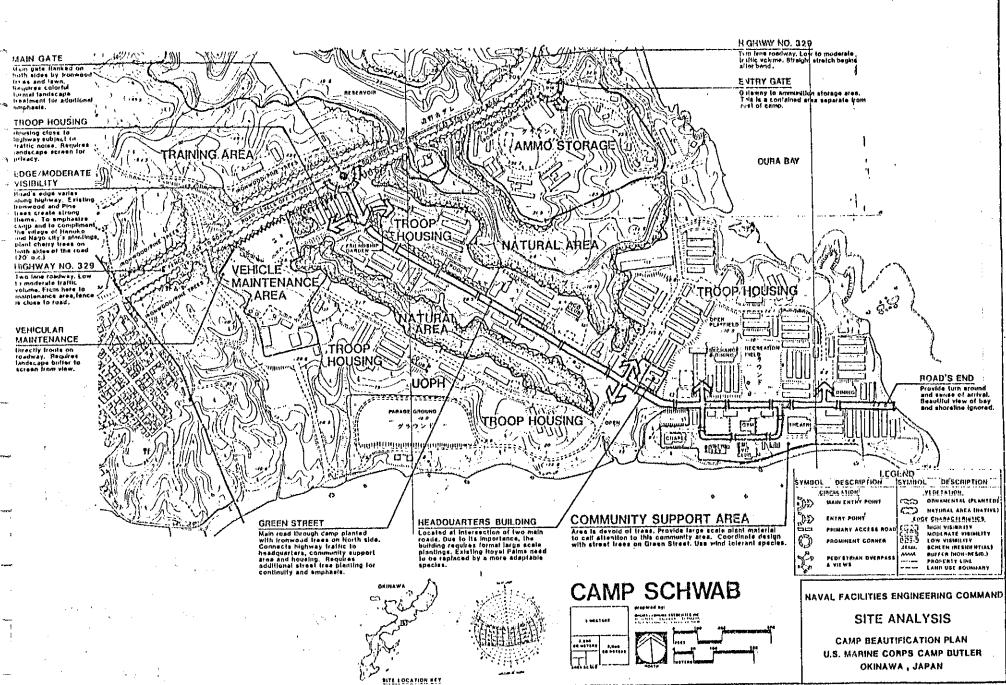


troop housing, and warehouses, and green trim for community support buildings.

B. SITE ANALYSIS

The areas of the Camp that were identified for investigation were the fenceline along Highway 329, the main entry gate and a portion of the entry road, the Headquarters, and Community Support areas. Highway 329 is a rural two-lane road that carries a low to moderate volume of traffic. As it passes through the Camp, the fence is often too close to the road due to the thick native vegetation from within the Camp. Due to its rural location, there are large stands of ironwood trees and pines that screen the Camp's active areas in its interior from view from the highway. It was recommended that. a simple plant material rhythm be established along these fencelines to define the edge of the Camp.

The main entry gate to the Camp is positioned at a high point on Highway 329, at its intersection with Green Street. One side of the entry is a lawn with ironwood trees and the other is a troop housing area, conveying a pleasant residential atmosphere. The entry needs only the addition of a colorful hedge and formal plant material groupings to add emphasis to the entrance. A fenceline hedge should also screen the housing area from the road. Once inside the main gate, Green Street becomes the main road through the Camp. It connects the community support facilities, Headquarters, and much of the troop housing to the main gate. By simply



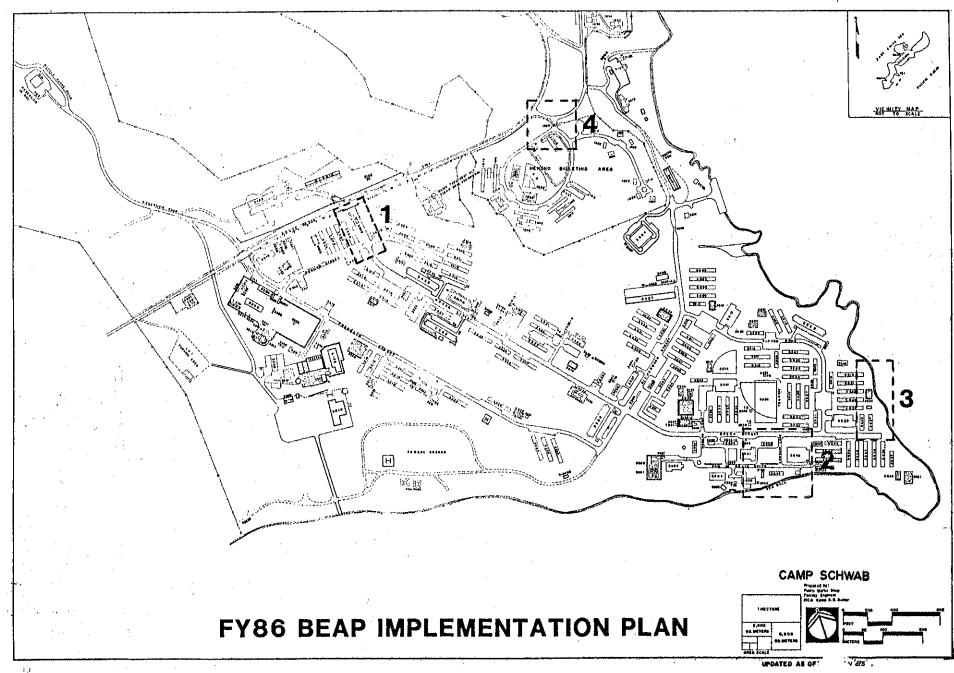
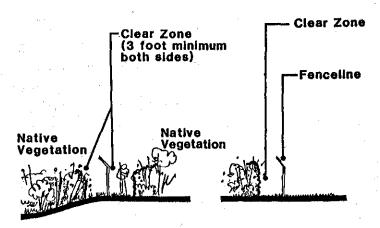


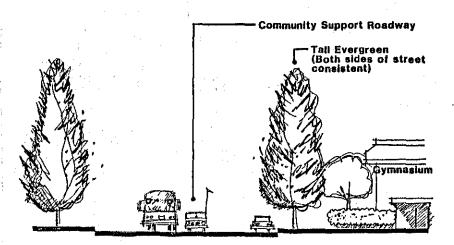
PLATE F-22



A-1: HIGH VEGETATION ON ONE OR BOTH SIDES OF FENCE

When a fenceline is located with no facilities nearby & is not clearly visible, no additional planting is required. However, a 3 foot (minimum) clearing should be maintained on both sides of the fence for security purposes.

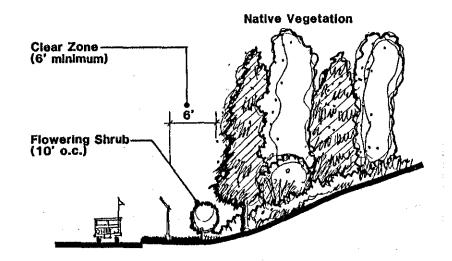
LOW VISIBILITY



E-1: COMMUNITY SUPPORT AREA

The major recommendation is to emphasize the community support area through its street trees. Street trees should be large and different from other interior camp plantings. Within the community support area street trees should be consistent. Use either tail Evergreens (40' o.c.) or large camppy trees.(40' o.c.)

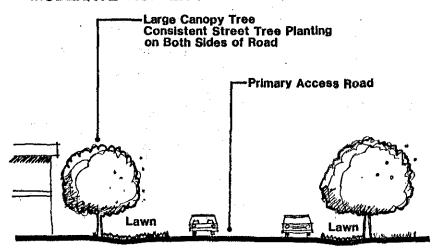
GENERAL LANDSCAPE TREATMENT



B-1: NATIVE VEGETATION WITHIN CAMP FRONTING HIGHWAY

Remove or prune existing vegetation to create a 6 foot deep (min:) clear zone. This will create a solid defined edge and provide room for a colorful shrub to informally line roadway for camp identity.

MODERATE VISIBILITY



E-2: PRIMARY ACCESS ROAD TREATMENT

On all camps the main circulation route is identified and called Primary Access Road. It acts as the spine from which minor side roads originate. It is important to develop a consistent street tree plan for this road to visually identify it. Use large canopy trees (50' o.c.) which should change as the road passes through the Community Support Area.

GENERAL LANDSCAPE TREATMENT

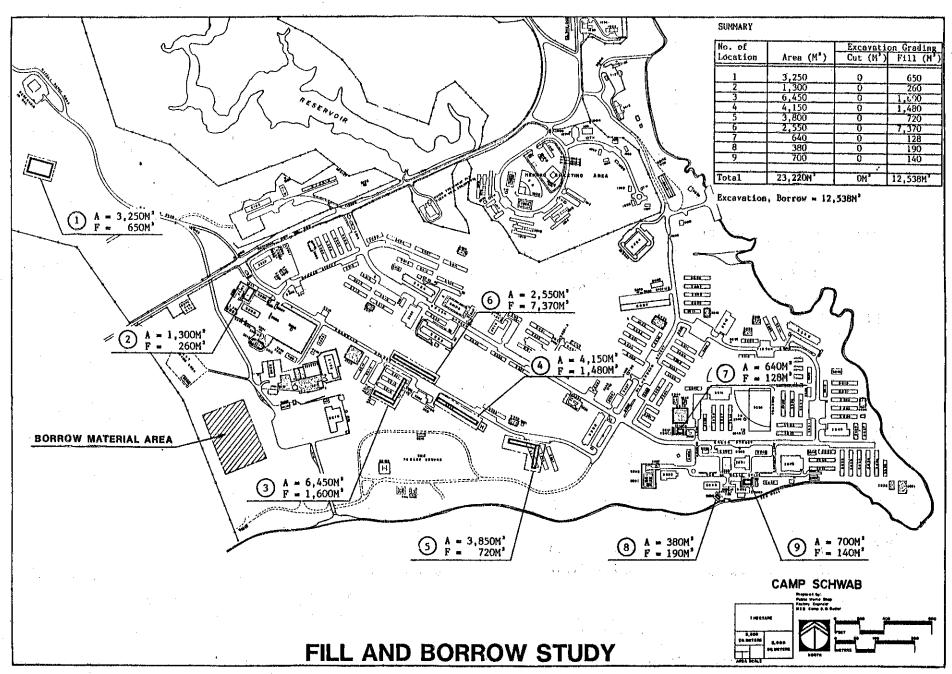


PLATE F-23

adding street trees to this road, the primary access road would be defined.

The Camp Headquarters is located along this road at its intersection with Richardson Street. The existing Royal Palms are a good formal expression of the importance of this area. However, a more adaptable palm should be substituted that will thrive in close proximity to the salt spray and winds. The community support area is located further along Green Street. It is defined by Howard Lane, Van de Walle Drive, and Ambert Lane. The simplest way to add structure to this area is to reinforce the roadway pattern with street trees. By choosing trees of different size, shape and color, it is possible to define and set the Community Support Facilities off from the rest of the Camp. This is desirable to clarify the use of different areas on the Camp.

C. IMPLEMENTATION

All building signs have been replaced and most of the camps buildings and structures have either been painted or are under contract to be painted in order to comply with the Base Exterior Architecture Plan.

A major implementation of the BEAP was accomplished during FY86. Design has been completed, and construction anticipated for the Spring 1986 planting season, in order to landscape areas indicated by Plate F-19. Design was accomplished by the in-house designers of a local botanical garden to insure designer familiarity with native species and climate

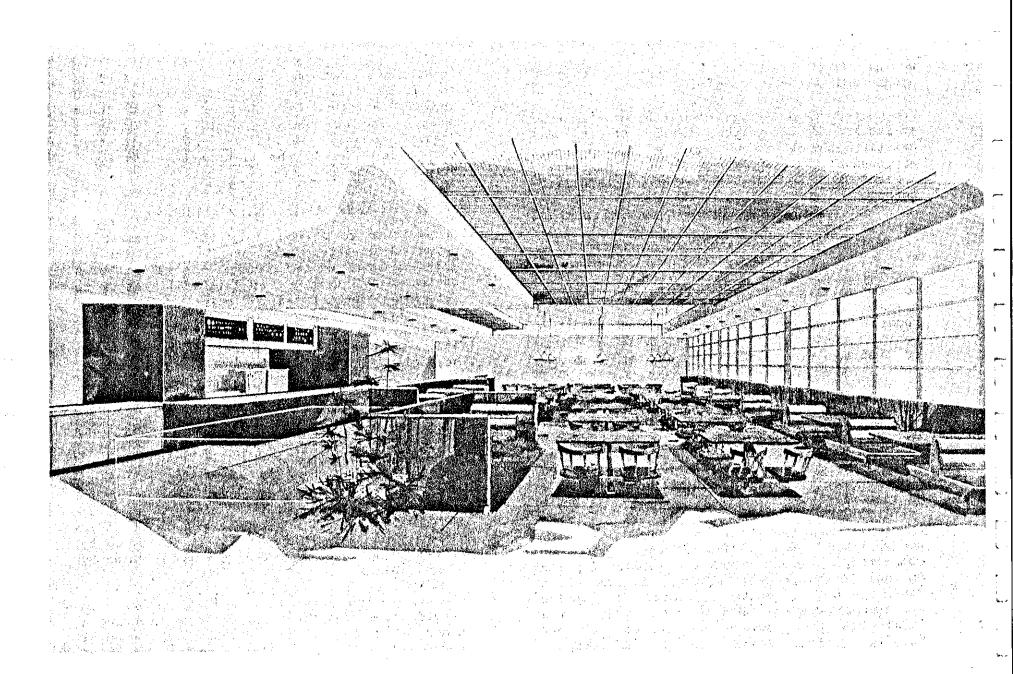
conditions. Predominant tree species include the Floss Silk Tree (Chorisia speciosa) and Indian Laurel (Ficus retusa). Predominant shrubs include Chinese Hibiscus (Hibiscus rosa-sinensisu), Wederia (Wederia trilobata), Copper leaf (Acal ypha wilkesiana), and Royal poinciana (Poinciana regia BOJEN).

9. BORROW AND FILL SITES

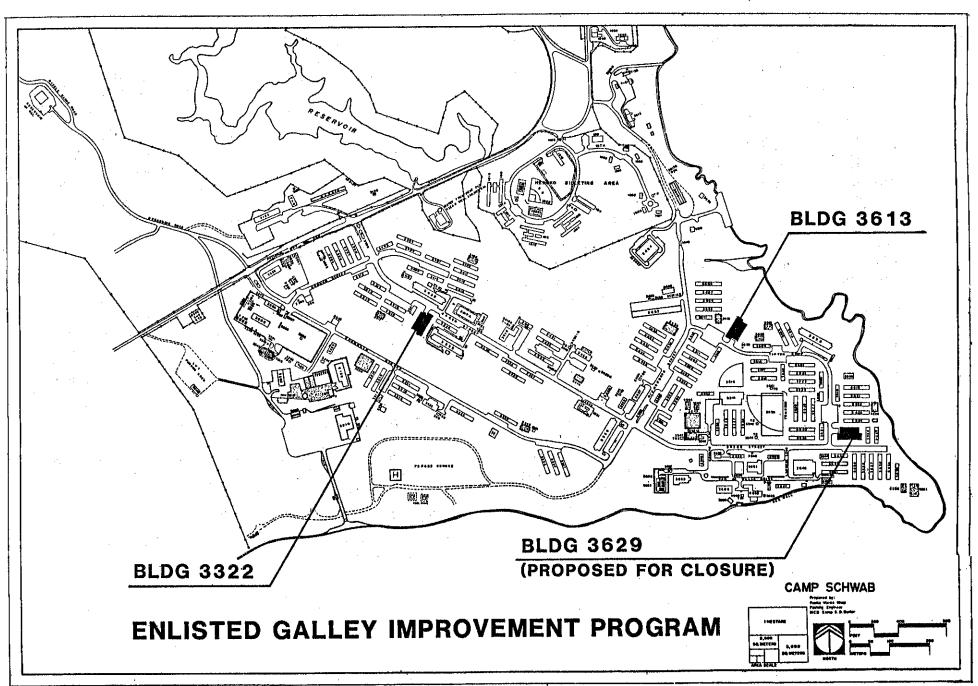
In response to a request by the Government of Japan for on-site borrow and fill sites for all JFIP Projects for on Okinawa, the Public Works Branch of MCB Camp Butler initiated a study to determine optimal site locations for such construction activity. This study used an ecological approach to analyze site suitability, and a cost-benefit decision matrix for site selection. Information from this study will be used to update the cost estimates for all construction projects and will be used to review the availability of unencumbered sites for unprogrammed construction.

The study modeled excavation activity for nine proposed footprints covering 23,200 square meters at Camp Schwab, forecasting virtually no requirement for cut at any site and a total requirement for 12,538 square meters of fill. The net fill requirement could be satisfied by an operating an on-base borrow site as shown by Plate F-23.

Operating this particular on-base borrow site provides the additional advantage of leveling a sloped area containing no known environmental nor cultural constraint with the by-product of



RENDERING OF PROPOSED GALLEY RENOVATION



creating land for future expansion at no-cost to out-year projects. For example, this particular location could serve as a laydown area and vehicle park for mobilization, with adjacency to motorpools, the underpass to the Schwab Training Area, and the Amphibious Vehicle Ramp.

10. ENLISTED MESSHALL IMPROVEMENT PROGRAM

The Enlisted Messhall Improvement Program is a Headquarters Marine Corps directed program to upgrade all Marine Corps enlisted galleys. The primary objective is to provide galley facilities comparable to first class cafeterias in the United States. Additionally, it is important to consider the closing and consolidation of underutilized facilities. Eleven Enlisted Galleys on Okinawa are programmed for major repairs and upgrades under the FY86 HOMC Facilities Projects Program (approximately \$6.5 million total in HOMC M2 monies and \$1.5 million total in HOMC R2 monies).

There are three galleys at Camp Schwab (Buildings 3613,3322, and 3629) (See Plate F-23). All of these facilities require extensive repairs to meet the Galley Upgrade standard of a first class cafeteria. Building 3613 (currently nonoperational) will be upgraded and repaired concurrent with building 3322. Galley 3629 will be closed when its operations are consolidated in the refurbished galleys 3613 and 3322. Building 3629 will be retained for contingency.

The state of the s

11. DEMOLITION PLAN

The Facilities Engineer Division, MCB Camp Butler, has a dedicated Demolition Program which co-ordinates all demolition requirements precipitated (including those by new construction and JFIP quid pro quo agreements) and ensures that unneeded, unsafe, and unsightly buildings and structures are demolished in accordance with a managed facilities life-cycle program. Plates F-24 and F-25 illustrate the Demolition Plans for Camp Schwab and Henoko. These plans are further discussed in Section I of this Master Plan.

12. PROPOSED LAND USE

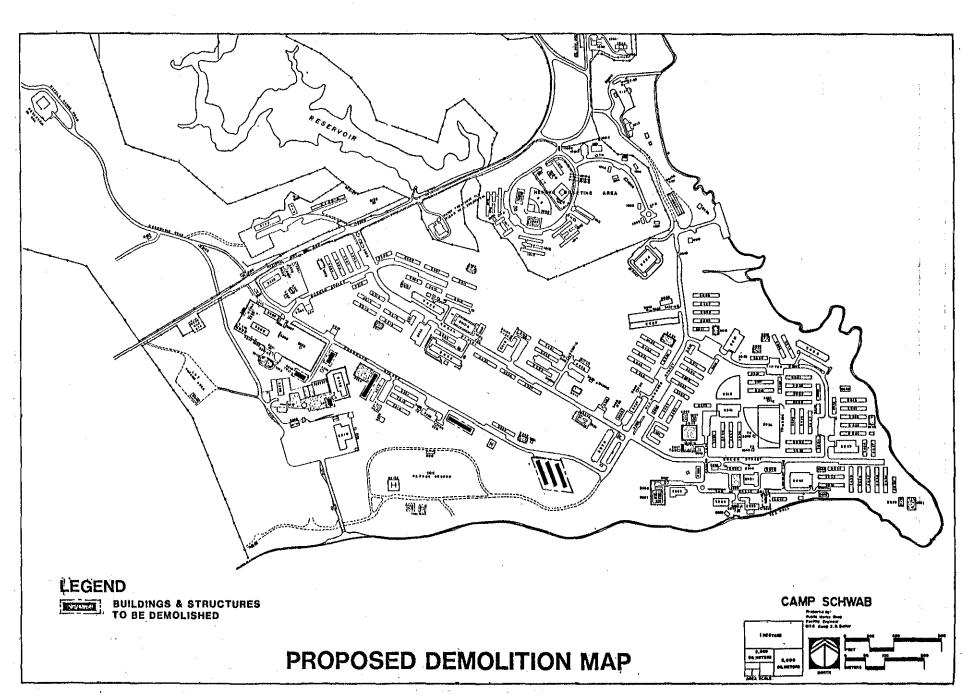
A proposed Land Use Plan for Camp Schwab (based on all of the requirements, issues, and constraints discussed in this Section) is shown as Plate F-26. Virtually no change is proposed for Henoko, and a proposed Land Use Plan is not considered necessary.

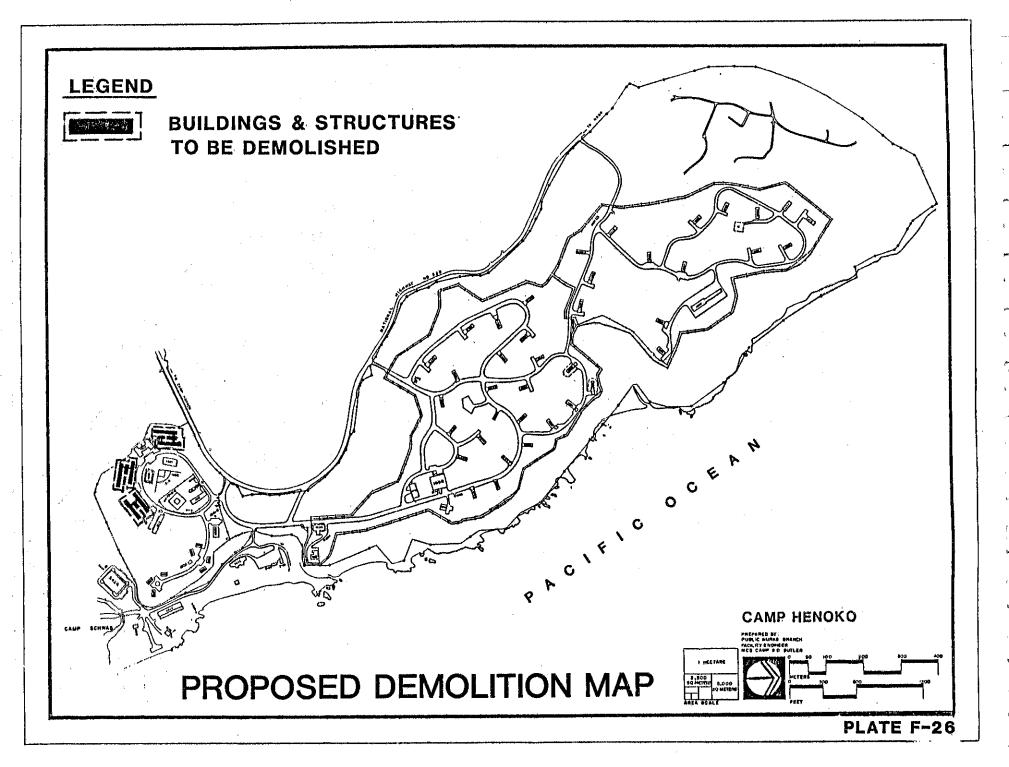
13. FOLLOW-ON STUDIES

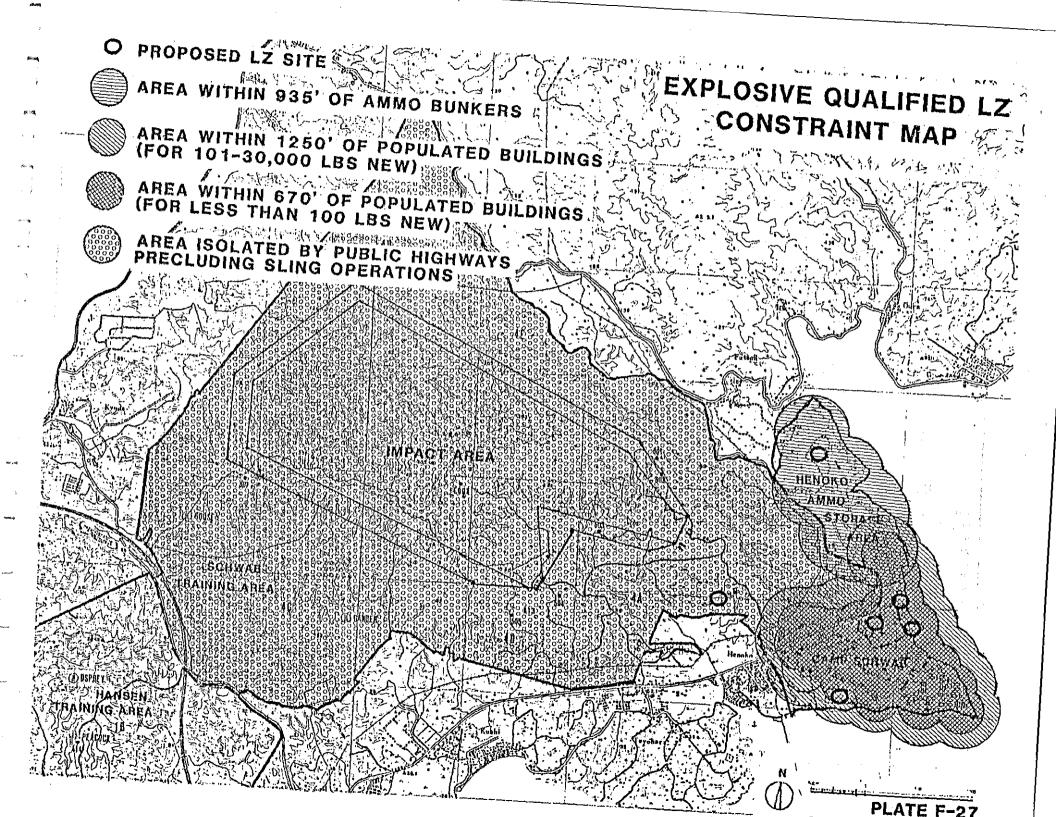
The following studies are underway at this time and will be used to update the final Camp Schwab and Henoko Master Plan:

D. ON-GOING STUDIES

1. A study to identify all borrow and fill sites for MCB Camp Butler.







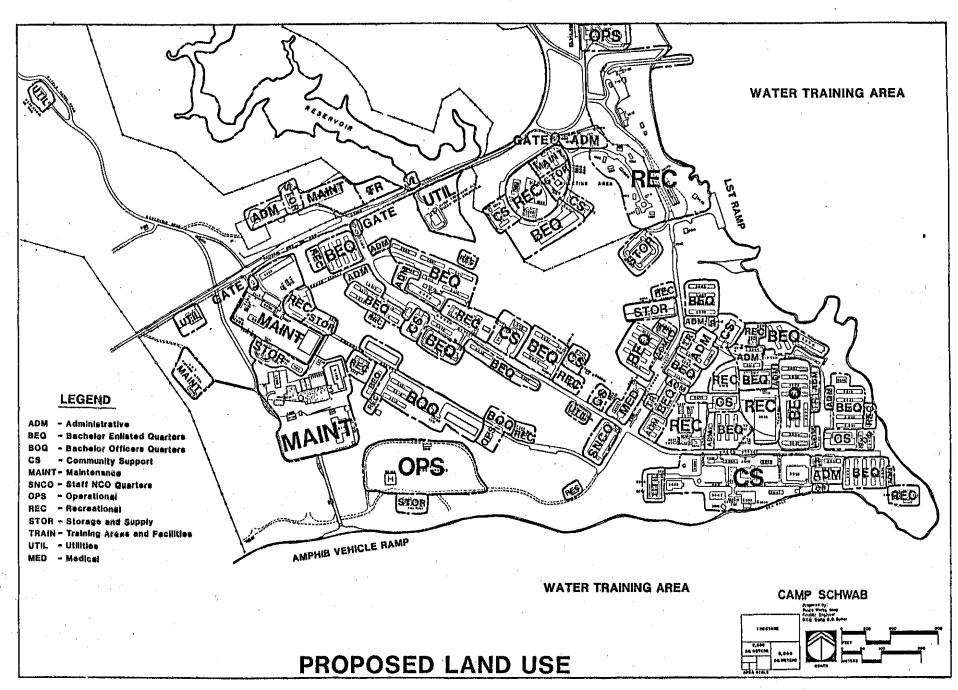


PLATE F-28

- 2. A Utilities Improvements Program study, to insure that the out-year infrastructure program will fully support the Capital Improvements generated by this Master Plan. Sixty percent comments from this study have been incorporated with this Plan and final recommendations will be used to update and revise Section H of the Master Plan upon receipt.
- 3. A Range Master Plan study, to coordinate all known requirements for USMC and tenant-customers for use of USMC Training Areas on Okinawa and at Camp Fuji on Honshu Island.

B. RECOMMENDED STUDIES

The following studies are recommended:

- 1. A Land Management Plan.
- 2. Navy Assessment and Control of Installation Pollutants study.
- 3. Identification of watersheds, flood profiles, and flood hazard maps for all MCB Camp Butler camps on Okinawa. to include watersheds and dams in the Central Training Area and a flood hazard map for the Henoko Bisha-gawa.

G. CAPITAL IMPROVEMENTS PROGRAM

The Capital Improvements Plan represents a description of projects with anticipated funding source, that are programmed to resolve the deficiencies made evident by the Requirements Section of this Master Plan. Construction sequencing and related problems is discussed in Section I, Site Development Plan.

1. FACILITIES IMPROVEMENT PROGRAM

The Facilities Improvement Program (FIP) is a Government of Japan funded program ongoing since Japanese FY79. This program was developed by the Government of Japan in response to U.S. initiated discussions in 1978. Since October 1981, over \$200 million in Marine Corps facilities have been constructed through the FIP. Another \$135 million is under construction or in the design phase.

FIP Projects at Camp Schwab and Henoko Ammunition Storage Area are shown by Plate G-1.

A. BOQ (O3 AND ABOVE) (FIP MC-6xxx-10)

Category Code: 724-12

Scope: 39 Rooms Cost: \$2,477,000 Funding Year: JFY 86

1. PROBLEM:

Camp Schwab has a projected billeting requirement for 97 officers O3-010. Camp Schwab's existing inventory of 66,904 SF for all officers is deficient 36,346 SF by DoD space per man criteria.

2. RECOMMENDATION:

Construct a two-story, 40-room, 26,330 SF BOO with reinforced concrete foundation and frame. Project includes central air conditioning and heating, manual fire alarms and individual room smoke detectors, and provision for cable TV.

3. SITING CONSIDERATIONS:

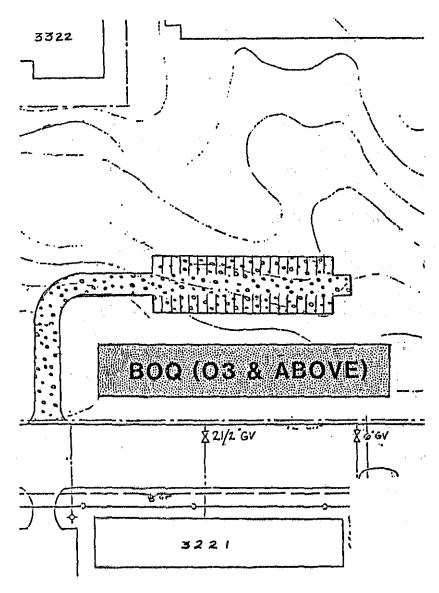
Sited adjacent to existing BOQ's 3218, 3219, and 3221.

4 PHASING:

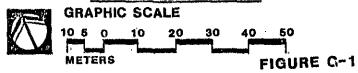
None.

5. DEMOLITION:

None.



SITE PLAN CAMP SCHWAB



B. BOQ (O2 AND BELOW) (FIP MC-6xxx-18)

Category code: Scope: 60 Rooms Cost: \$2,800,000 Funding Year: JFY 89

1. PROBLEM:

Camp Schwab has a projected billeting requirement for 83 officers W1-O2. Camp Schwab's existing inventory for all officers of 66,904 SF, considering DOD space per man criteria, is deficient 36,346 SF.

2. RECOMMENDATION:

Construct a two-story reinforced-concrete, 60 module BOQ with office space, lounges, storage, laundry, and recreation rooms. Each module consists of a bedroom, living room, kitchen, and bathroom. Include HVAC, fire protection system, parking, and provisions for cable TV, telephone, and EMCS.

3. SITING CONSIDERATIONS:

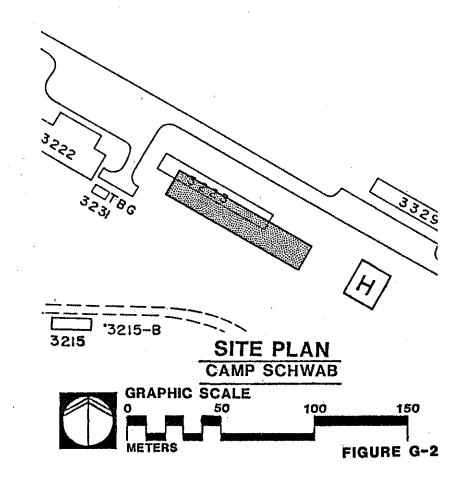
Sited near existing BOQs 3218, 3219, 3221 and proposed FY86 BOQ MC-6XXX-10.

4. PHASING:

None.

5. DEMOLITION:

Building 3223 will be demolished prior to construction.



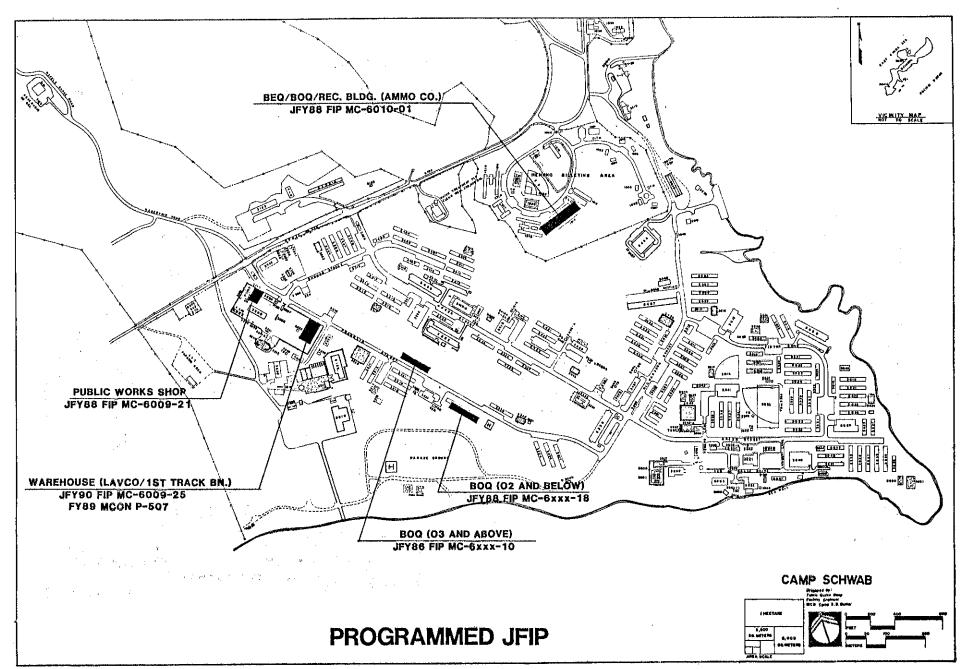


PLATE G-1

C. BEQ/BOQ/MESSHALL (AMMO COMPANY) (FIP MC-6010-01)

Category Code:

Scope: 5,297 Square Meters

Cost: \$6,000,000

Funding Year: JFY 89

1. PROBLEM:

Existing facilities at Henoko consist of substandard BEQs and BOQs, and no Messhall. BFR calls for 210 E1-E4, 18 E5, 12 E6-E9, and 15 WO-02 spaces. Total substandard assets are 174 E1-E4, 30 E5, 20 E6-E9, and 8 WO-02.

2. RECOMMENDATION:

Construct a 4-story, reinforced concrete BEQ/BOQ building with 169 rooms, bathrooms, office, lounge, storage, laundry, and recreation room. Also construct a Messhall with dining room. kitchen. receiving serving and areas, refrigeration and office. storage rooms, restrooms, and music and PA system. facilities shall have HVAC, fire protection systems, parking, and provisions for cable TV, telephones, and EMCS.

3. SITING CONSIDERATIONS:

The proposed site is in the Henoko cantonment area. Due to the clear space requirement for the existing helipad, height restrictions will

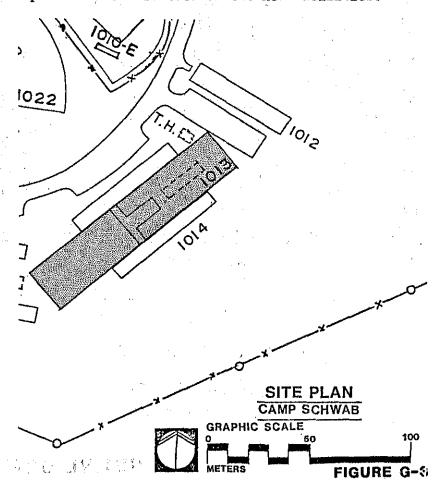
be enforced in the design concept.

4 PHASING:

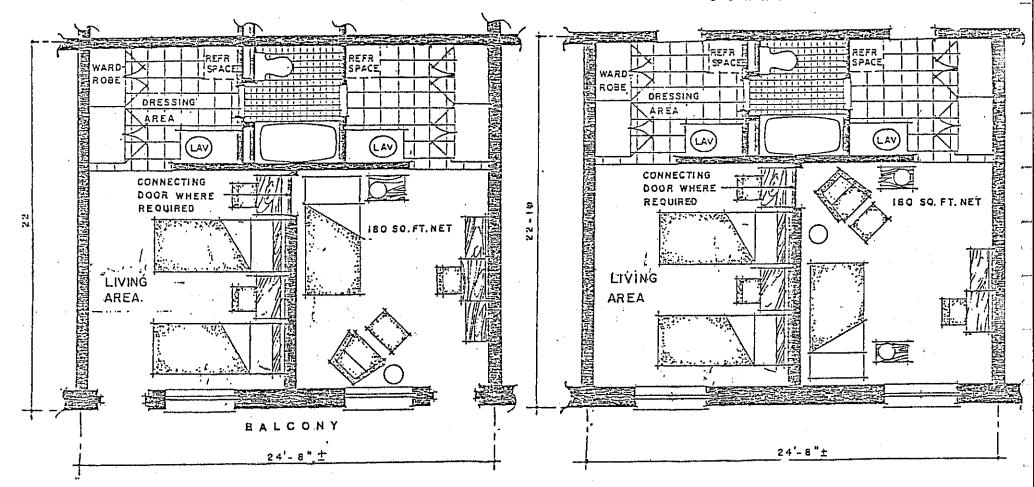
None.

5. DEMOLITION:

Buildings 1013 and 1014 shall be demolished prior to construction of the new facilities.



CORRIDOR



TWO ROOM MODULE

BALCONY TYPE 564 SQ. FT. GROSS AREA TWO ROOM MODULE
INTERIOR CORRIDOR TYPE
564 SQ. FT. GROSS AREA

DEFINITIVE DRAWINGS FOR BEQ ROOMS

D. PUBLIC WORKS SHOP (MC-6009-21)

Category Code: Scope: 1,859 square meters Cost: \$2,400,000 Funding Year: JFY 93

1. PROBLEM:

Existing Public Works shop facilities consist of 9,997 SF of substandard space. The BFR calls for 10,400 SF. Additionally, Public Works shop and storage space is not consolidated in one facility.

2. RECOMMENDATION:

Construct a high-bay, two-story reinforced concrete NAVFAC Type "D" Public Works Shop and Maintenance Storage Facility.

3. SITING CONSIDERATIONS:

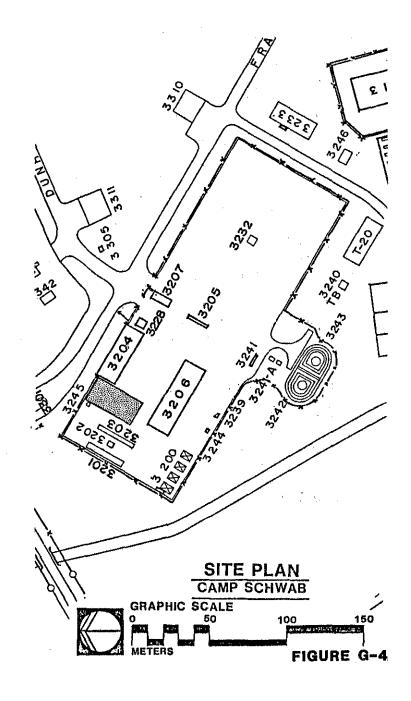
Site to be determined.

4. PHASING:

None.

5. DEMOLITION:

To be determined.



E. WAREHOUSE (MC-6009-25)

Category Code:

Scope: 1,867 square meters

Cost: \$1,600,000 Funding Year: JFY 89

1. PROBLEM:

Warehouse space is required for the 1st Tracked Vehicle Battalion. Existing Camp assets are 57,166 SF adequate, 16,820 SF substandard, and 4,000 SF inadequate. The total Camp BFR is 85,870 SF.

2.. RECOMMENDATION:

Construct a combined high-bay/low-bay, reinforced concrete warehouse with general and secure storage, administrative space, an armory, and service and equipment area. Paving, IDS, and a detached hazardous materials/flammables storehouse are also required.

3. SITING CONSIDERATIONS:

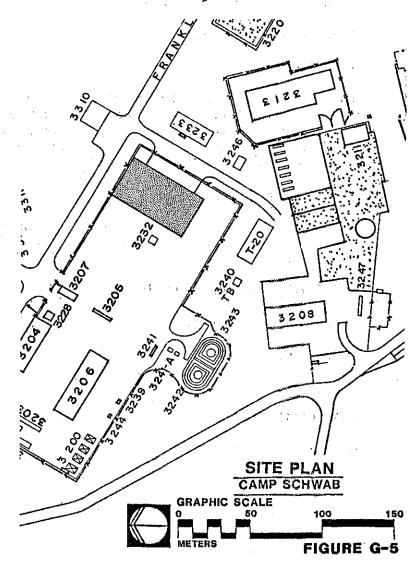
The site is close to the existing Maintenance Building of the 1st Tracked Vehicle Battalion.

4. PHASING:

None.

5. DEMOLITION:

Buildings 3211, 3233, and T-20 will be demolished for this Project.



2. MILITARY CONSTRUCTION PROGRAM

The authority for Navy procurement, vested by statute in the Secretary of the Navy, is delegated for facility construction to the commander, NAVFACENGCOM. Military construction projects for the Marine Corps also include three centrally managed MILCON programs which are Navy programmed by the NAVFACENGCOM: and Health Deficiency Occupational Safety Abatement, Pollution Abatement Energy Conservation Investment Programs.

The Government of Japan will not fund construction involving addition, renovation, or modernizations of existing buildings that were originally constructed by the U.S. Government. Therefore, the only means of accomplishing such a project is by the MILCON program.

The following projects in the Capital Improvement Plan have been programmed for MILCON funding and are planned for Camp Schwab shown on Plate G-2.

A. A/C ADMIN BUILDINGS, PHASE ONE (P-541)

Category Code: 610-10, -71, -72

Scope: 5 Buildings (18 Buildings other camps)

Cost: \$6,300,000 Funding Year: FY87

1. PROBLEM

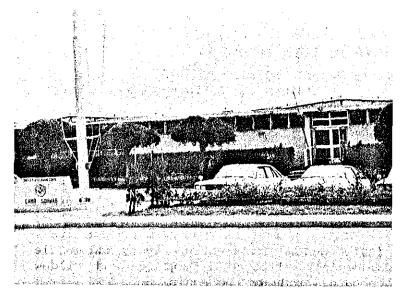
Due to the summer weather conditions on Okinawa (85-95°F and 70-90% relative humidity), Offices require air-conditioning. Some facilities have window units, which are high-maintenance items and inefficient. Worker productivity and morale are adversely effected. Dampness and mildew damage paper products and equipment.

2. RECOMMENDATION:

Install central air-conditioning systems in five administrative facilities at Camp Schwab. Systems will vary from 15-50 tons. Electrical service will be upgraded including secondary distribution lines and substations. In accordance with DoD design criteria, roof of ceiling insulation will be installed concurrently.

3. SITING CONSIDERATIONS:

Existing buildings 3319, 3501, 3511, 3527, and 3643.



Building 3501, Regimental Headquarters

4. PHASING:

This project is the first phase of a two phase This project includes facilities program. classified as category codes 610-72 (Battalion/Squadron Headquarters). 610-71 (Regimental/Group Headquarters) and 610-10 (Administrative Office). The second phase FY89 MCON P-542) will include facilities classified as category code 610-73, Company/Battery Headquarters.

The project cost was developed with the expectation that FY87 MCON P-539, UEPH Improvements, will be funded. The MCON P-539 scope includes upgrading portions of the electrical distribution systems at Camps Schwab and Hansen to support the air-conditioning systems proposed by MCON's P-539, P-541 and P-542. Therefore, if for some reason MCON P-539 is not funded in FY87, additional electrical work will have to be accomplished by MCON P-541, resulting in a slightly higher project cost.

5. DEMOLITION:

None.

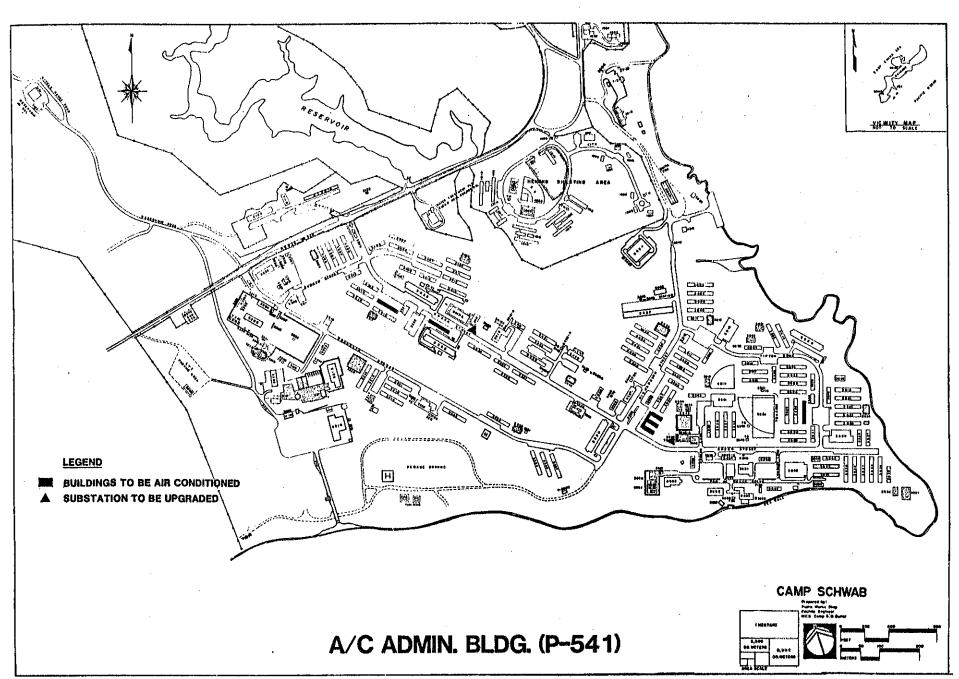


PLATE G-2

B. BEQ/BOQ UPGRADE (P-864)

Category Code: 721-13, 724-11 and 724-12

Scope: Repairs to five buildings at Camp Schwab Cost: \$8,600,000 (with MCAS Futenma, Camp

Foster, Camp Schwab and Camp Kinser)

Funding Year: FY90

1. PROBLEM:

Facilities are not currently air conditioned by central A/C and the electric service is not designed to support window mounted A/C units. Clothes dryers and kitchen cooking ranges cannot be used simultaneously. The facilities do not meet current DOD criteria standard for BEQ/BOQs.

2. RECOMMENDATION:

Upgrade and modernize BOOs and staff NCO BEQs. Major items are the installation of central HVAC, rehabilitation of kitchens and bathrooms, upgrade electrical service, total replacement of light fixtures, installation of central TV/FM antennas, new door locksets, wall-to-wall carpeting, and interior/exterior painting.

3. SITING CONSIDERATIONS:

Existing buildings

4. PHASING:

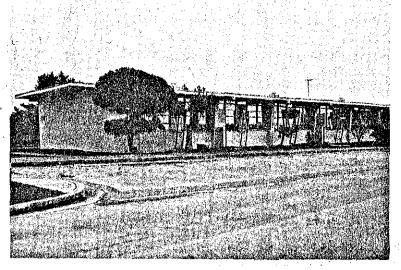
Phase one of P-864 will provide BEO/BOO upgrade

at Camp Schwab, MCAS Futenma, Camp Foster, and Camp Kinser.

5. DEMOLITION:

None

TOTAL TOWN VENE



Building 3221, BOQ

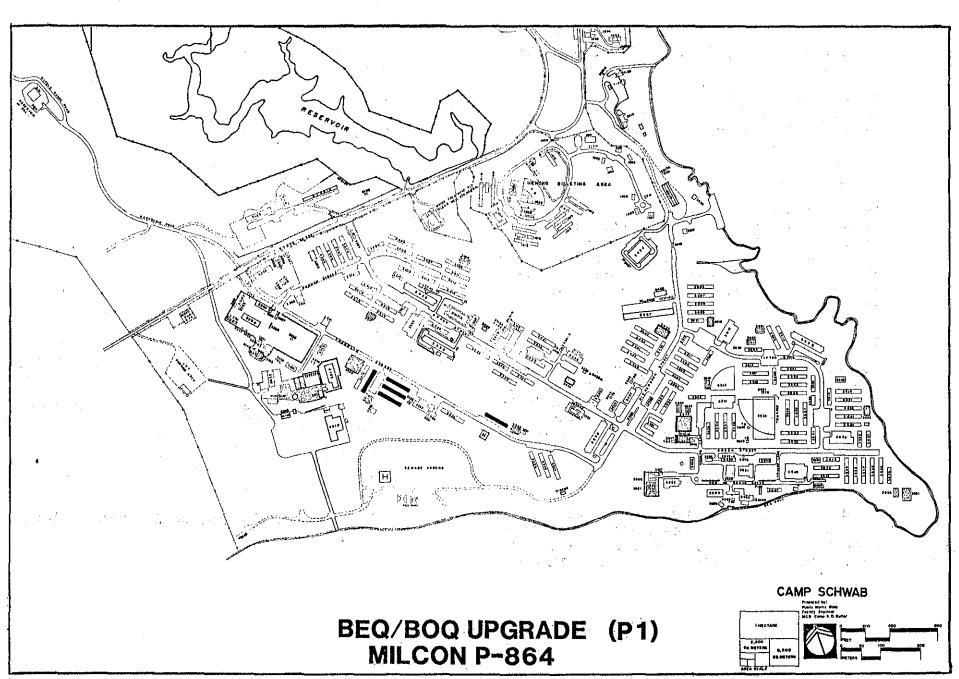


PLATE G-3

C. INSTALL A/C, UNIT ROTATION BEQs (P-539)

Category Code: 721-11

Quantity: 31 Buildings (at Schwab) Cost: \$9,900,000 (with Camp Hansen)

Funding Year: FY88

1. PROBLEM:

The existing open-bay BEO's are not air conditioned. During the long, hot, humid summer season (85-95°F and 70-90% relative humidity) living and sleeping conditions are extremely difficult. The heat creates extreme irritability and tension between troops, which adversely affects morale.

2. RECOMMENDATION:

Provide and install central A/C with heating elements in the 31 unit rotation BEQs at Camp Schwab. The electrical service also should be upgraded, including increasing the capacity of primary and secondary distribution lines and substations.

3. SITING CONSIDERATIONS:

Huildings 3304, 3306, 3307, 3314, 3431, 3432, 3433, 3507, 3508, 3509, 3517, 3518, 3521, 3522, 3523, 3524, 3527, 3532, 3533, 3603, 3606, 3607, 3608, 3609, 3614, 3619, 3621, 3622, 3623 and 3624, and 3428.

4. PHASING:

None

5. DEMOLITION:

None



Rotation BEQs due A/C under P-539

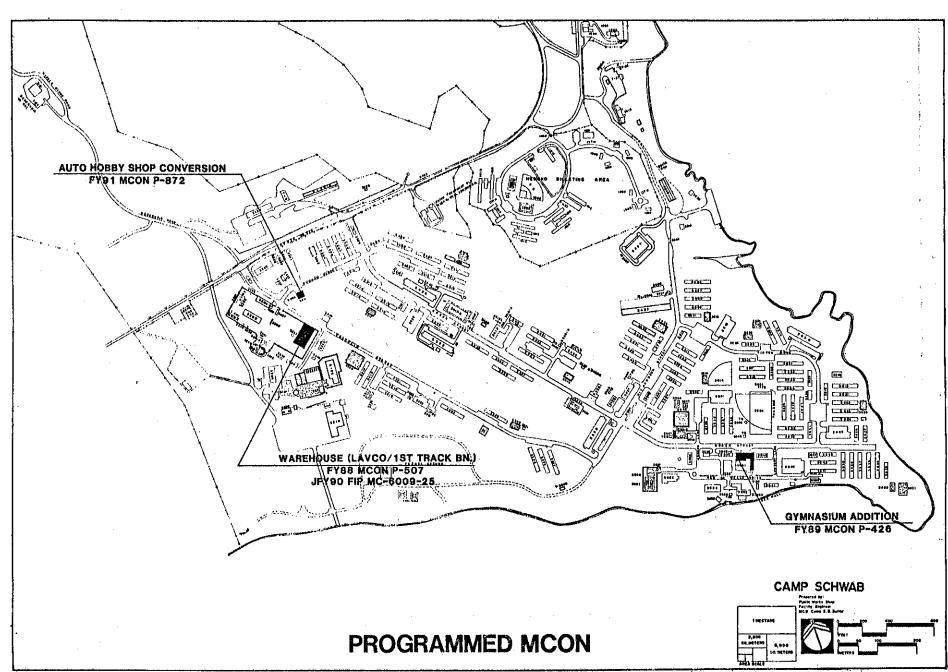


PLATE G-4

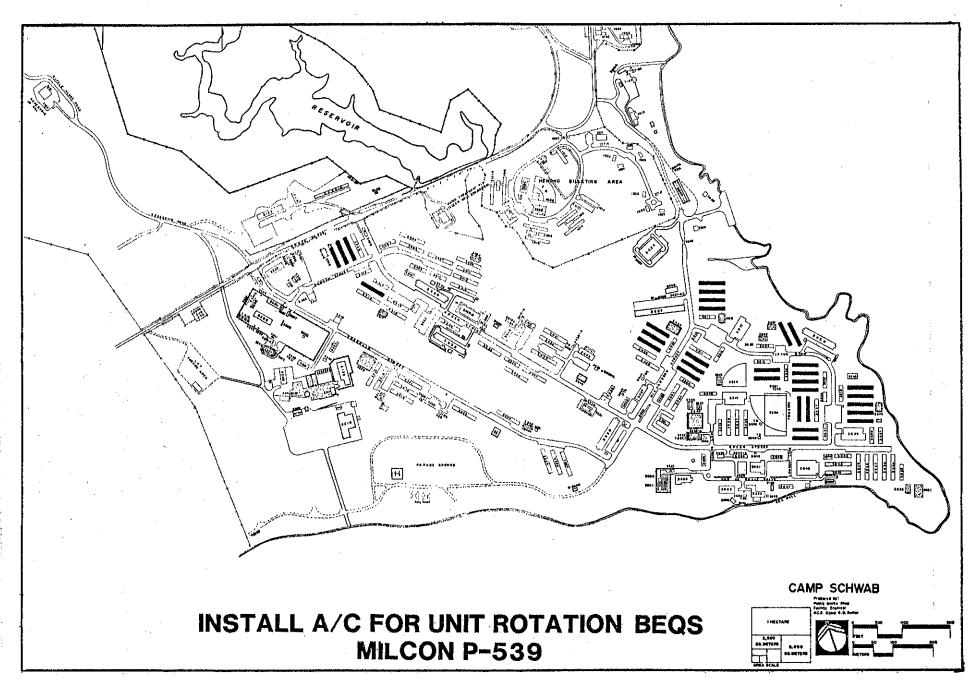


PLATE G-5

D. GYMNASIUM ADDITION (P-426)

Category Code: 740-43 Quantity: 10,580 SF Cost: \$1,250,000 Funding Year: FY89

1. PROBLEM:.

Additional space is required to provide the basic facilities requirement for CC 740-56 at Camp Schwab. The existing gymnasium has only 10,175 square feet of a required 21,000 square feet. A converted open squad bay BEQ and an administrative building are being used to provide addition, but substandard, facilities.

2. RECOMMENDATION:

Construct a 10,580 SF Gymnasium Addition at Camp The facility shall have reinforced Schwab. concrete frame on pile foundation with masonry filled walls, steel truss roof framing topped with an insulated four ply built-up roof. The facility will include mechanical ventilation in the basketball court, locker rooms, office and equipment storage room. Air condition the fitness center and martial arts room. In the addition functional areas include: multipurpose basketball court with a foldable dividing wall, a fitness center (weight room), a martial arts room with sauna, shower, head and changing room, and a mechanical room w/air conditioning pad to support the addition.

3. SITING CONSIDERATIONS:

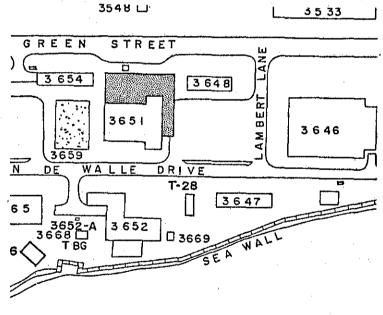
Addition to existing building.

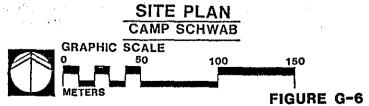
4. PHASING:

None

5. DEMOLITION:

None.





E. A/C ADMIN BUILDING, PHASE TWO (P-542)

Category Code: 610-73

Quantity: 17 buildings at Camp Schwab and one at

Henoko

Cost: \$10,400,000 (various camps)

Funding Year: FY90

1. PROBLEM:

Lack of habitable working conditions for administrative personnel. Due to summer weather conditions on Okinawa (85 - 95°F and 70 - 90% relative humidity) offices require air conditioning. Additionally, existing heating systems are outmoded and need replacement.

2. RECOMMENDATION:

Provide HVAC to seventeen administrative facilities at Camp Schwab and one at Henoko. Include electrical upgrade, reroofing with insulation and solar film.

3. SITING CONSIDERATIONS:

Buildings 3509, 3528, 3312, 3313, 3324, 3403, 3405, 3520, 3525, 3531, 3604, 3611, 3618, 3628, 3635, 3641, and 3643.

4. PHASING:

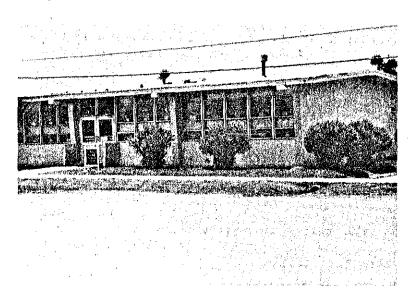
This project is the second phase of a two phase program. The first phase (FY87 MCON-541)

included facilities classified as category codes 610-72 (Battalion/Squadron Headquarters), 610-71 (Regimental/Group Headquarters), and 610-10 (Administrative Office). This project will include facilities typically classified as category codes 610-73 (Company/Battery) Headquarters and 610-10 (Administrative Office).

The project cost was developed with the expectation that portions of the electrical distribution systems at the various camps will be upgraded by FY MCON P-541 (Administrative Building Modernization, Phase 1) and FY 88 MCON P-539, BEQ Improvements.

5. DEMOLITION:

None



Bldg 3324, 1st Tracked Vehicle Battalion Headquarters

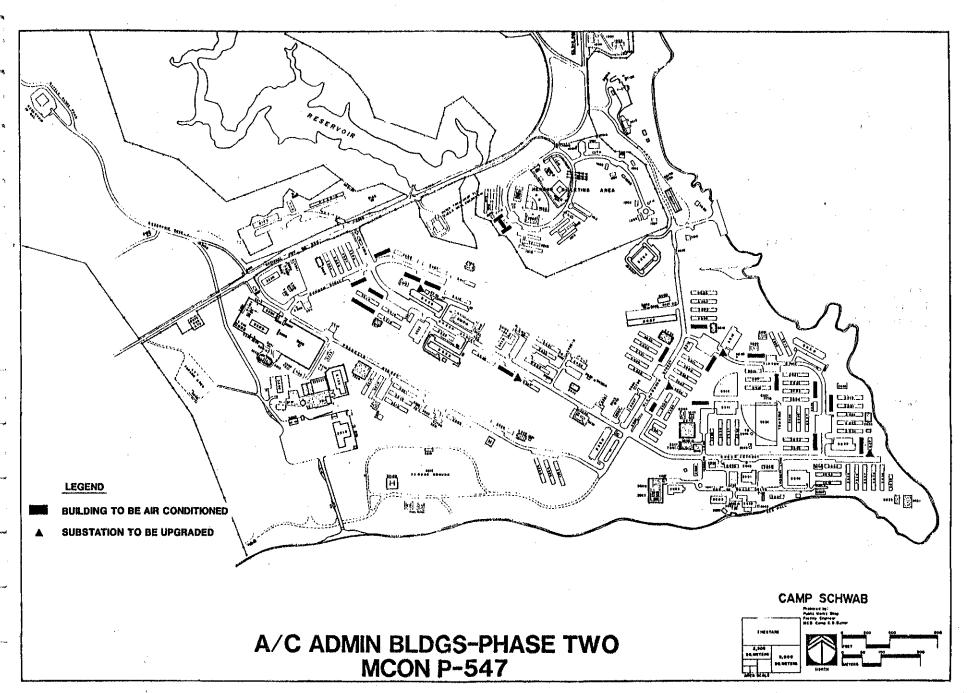


PLATE G-6

F. AUTO HOBBY SHOP (P-872)

Category Code: 740-38

Quantity: 3,068 SF at Camp Schwab

Cost: \$1,100,000 (with Camp Courtney)

Funding Year: FY91

1. PROBLEM:

Camp Schwab has no auto hobby shops, and personnel must hire off-base mechanics or drive their vehicle to Camp Foster. With the addition of accompanied tours at Camps Schwab, Hansen, Courtney and McTureous, vehicles will be kept for longer poeriods of time and require increased maintenance. Japanese law requires mandatory one and two year inspections which are costly (a minimum of approximately \$300). This cost is for inspection regardless of repairs, which is an additional cost to the car owner. The lack of an auto hobby shop or garage will lower the quality of life for the Marine Corps population in the northern centroid.

2. RECOMMENDATION:

Convert building 3311 from a warehouse/armory to an auto hobby shop. Provide new utilities, oil/water separators, and paint booth.

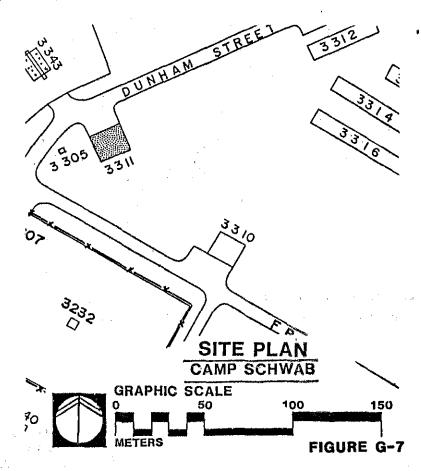
3, SITING CONSIDERATIONS:

4. PHASING:

Bldg. 3311 to be converted into LAV Armory by unprogrammed FY87R2 and upon relocation of Armory facilities by P-547, building 3311 will be converted to an auto hobby shop.

5. DEMOLITION:

None



3. DOUBLE PROGRAMMING

Recently Congress has been scrutinizing the MILCON Program, questioning why those projects can't be accomplished in the FIP. Many projects in the MILCON Program could be programmed in the FIP; however, the FIP is finite and projects to Increased Accompanied the Initiative are the highest priority. Therefore, operational projects have been programmed in the MILCON in the past. Now that the majority of Community support projects which support the been Tours have Increased Accompanied programmed, the FIP can support a greater number of operational projects.

The current JFY 87-91 FIP includes many operational projects. Projects programmed in the MILCON, that could also be accomplished by the FIP, have also been programmed in the FIP. Therefore, if Congress discontinues support of Japan-based projects in the MILCON, they will already be established in the FIP.

The following projects have been double programmed and are shown on both Plates H-I and H-II.

A. ORGANIC UNIT STORAGE (MC-6009-25 AND P-547)

G-4

Category Code: 441-12 and 143-45
Quantity: 18,000 SF (warehouse) and 2,923 SF (armory)

Cost: \$1,700,000 Funding Year: FY89

1. PROBLEM:

Organic unit storage is required to support the arrival of the Light Armored Vehicle (LAV) Company, 1st Track Vehicle Battalion. According to the 3 June 1985 revised FSR 28 vehicles will arrive during 1987. The 1st Track Battalion's organic unit storage is currently divided between two metal Butler buildings (4,000 SF each) and one concrete bldg (3,772 SF). Their armory is located in an old warehouse. It is not hardened and lacks a security fence to separate it from the adjacent roadway. Overall the camp is deficient 24,704 SF of warehouse space. Support of the additional requirement for warehousing of LAV company organic equipment and eventually for the M-1B tank will be impossible in the existing facilities. Without the construction of this facility the long term warehousing support for the 1st Track Vehicle Battalion will not be possible.

2. RECOMMENDATION:

200 323

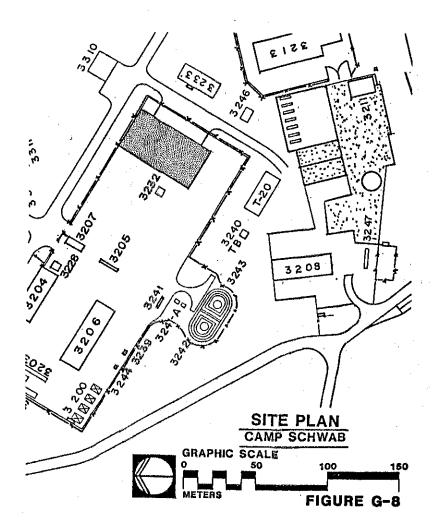
Construct 18,000 SF of organic unit storage and a 2,923 SF armory at Camp Schwab. Constructed of reinforced concrete foundation frame, floor and roof deck. Pave lot east of site for Light Armored Vehicle storage. Fence behind facility to retain fire lane. Fence around armory corner.

G-21

3. SITING CONSIDERATIONS:

4. PHASING: None

5. DEMOLITION: Buildings T-20 and 3233 (8,000 SF) to be demolished.



B. COMMUNICATIONS MAINTENANCE SHOP MC-6009-30 AND P-815)

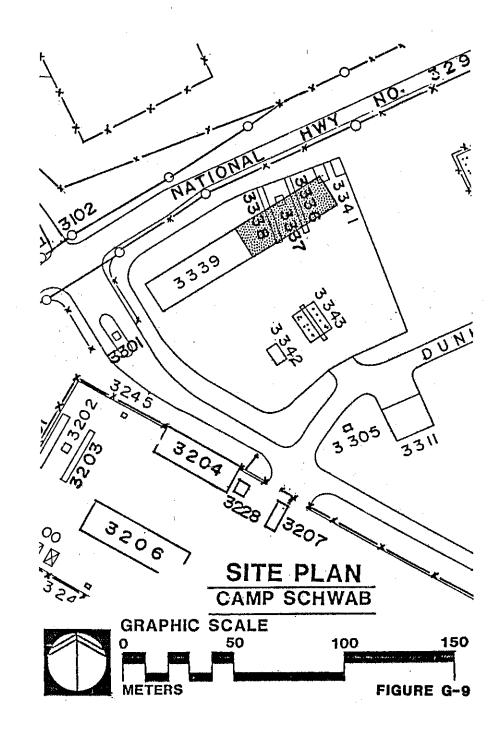
Category Code: 217-10 Quantity: 14,928 SF Cost: \$1,700,000 Funding Year: FY92

- 1. PROBLEM:
- 2. RECOMMENDATION:
- 3. SITING CONSIDERATIONS:
- 4. PHASING:
- 5. DEMOLITION:

C. AUTO ORGANIZATIONAL SHOP (MC-6009-26 AND P-377)

Category Code: 214-51 Scope: 14,780 SF Cost: \$1,700,000 Funding Year: FY92

- 1. PROBLEM:
- 2. RECOMMENDATION:
- 3. SITING CONSIDERATIONS:
- 4. PHASING:
- 5. DEMOLITION:



4. NAF CONSTRUCTION PROGRAM

Community and MWR facilities are all those included in military real property category codes 740 and 750. These facilities are classified in the NAVCOMPT Manual for the purposes of determining the extent of Government financial responsibility in their support, and to provide specific policies and guidance for funding.

It is the policy of the CMC to provide, maintain and operate adequate facilities to accommodate a well-rounded MWR program to ensure the mental and physical well being of Marine Corps military and civilian personnel. The funds to convert this policy into adequate facilities come from either appropriated or non-appropriated sources. The type of facility or work to be performed determines the funding source. Appropriated funds are used solely for construction of the larger facilities that do not generate revenues. Non-appropriated funds (NAF) are used for:

- a. The refurbishment and internal upkeep of facilities and equipment.
- b. The general support of Command and centralized, club welfare and recreational facilities.

Projects under \$200,000 are approved by CG, MCB Camp Butler and project over \$200,000 are approved by CMC.

The following projects in the Capital Improvement Plan programmed for NAF funding and planned for Camp Schwab are shown on Plate G-3.

A. PICNIC PAVILIONS (N-411)

Category Code: 740-78

Quantity: 5 each

Cost: \$300K

Funding Year: FY85

1. PROBLEM:

There are no covered picnic pavilions at Camp Schwab.

2. RECOMMENDATION:

Construct five picnic pavilions, each 25' wide by 40' long with concrete slab floor and structural steel frame. Each pavilion shall have a concrete fireplace and precast concrete tables and benches. A toilet facility will be constructed near each pavilion.

3. SITING CONSIDERATIONS:

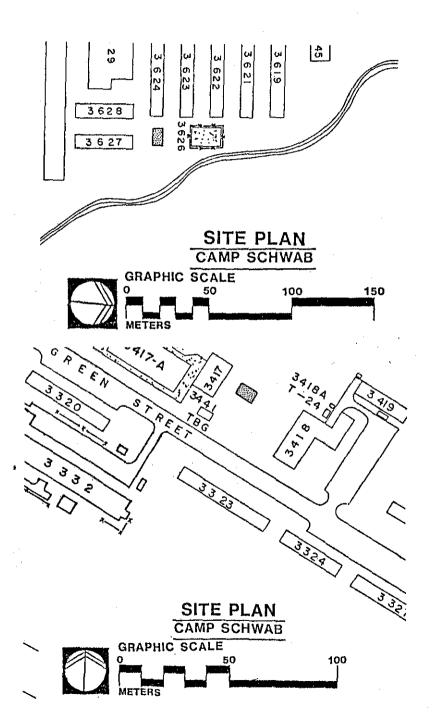
The pavilions will be constructed in the designated Camp Schwab picnic area.

4. PHASING:

None

5. DEMOLITION:

None



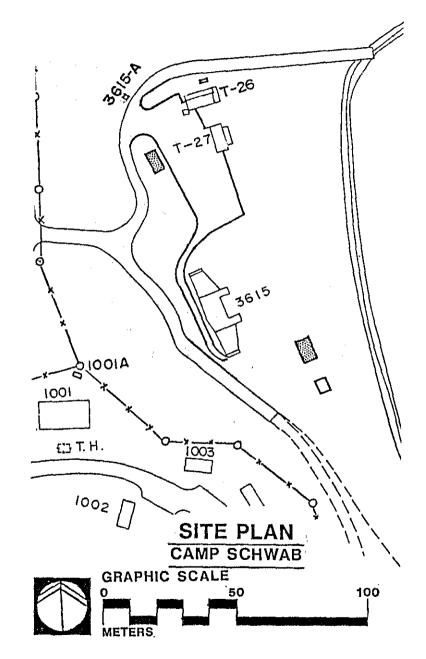


FIGURE G-10

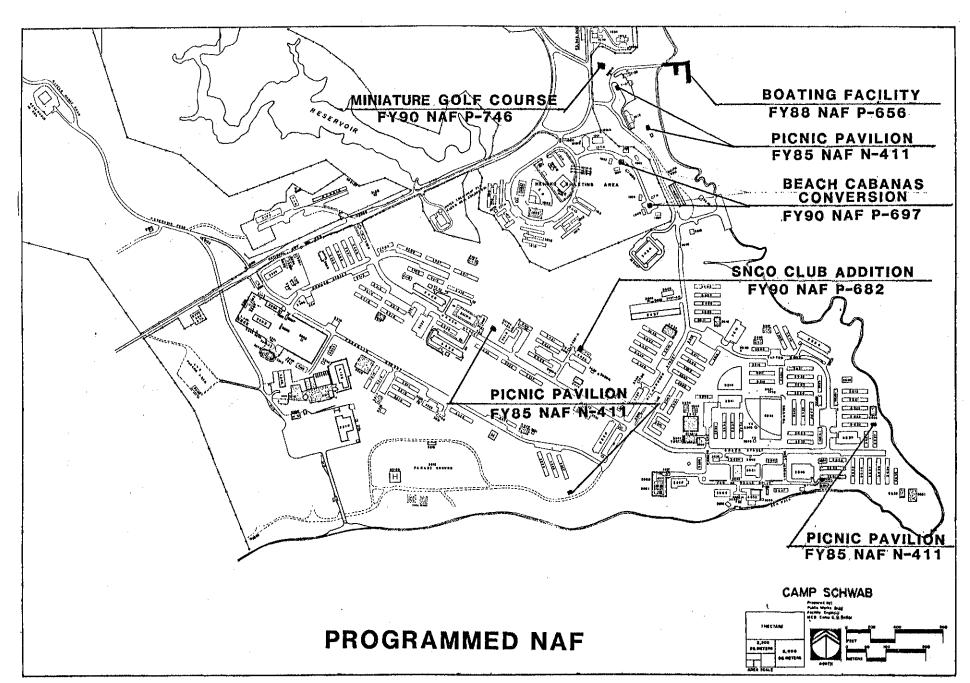


PLATE G-7

B. EM CLUB ADDITION (N-322)

Category Code: 740-36 Quantity: 2,673 SF

Cost: \$480K

Funding Year: FY86

1. PROBLEM:

The EM Club at Camp Schwab is undersized (total deficiency 23,470 SF).

2. RECOMMENDATION:

Construct a 2,673 SF addition to building 3652.

3. SITING CONSIDERATIONS:

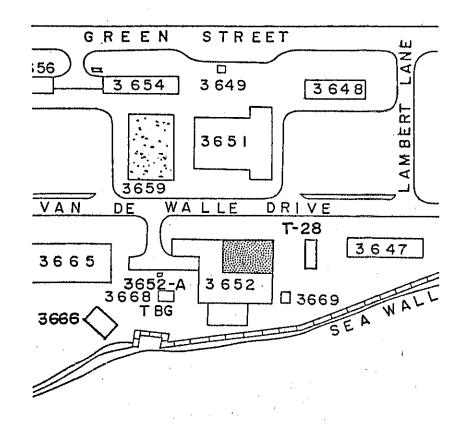
Existing building 3652.

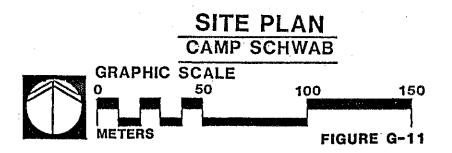
4. PHASING:

None.

5. DEMOLITION:

Exterior wall to connect addition.





C. BOATING FACILITY (P-656)

Category Code: 750-60 Ouantity: 1 facility

Cost: \$1,200K

Funding Year: FY88

1. PROBLEM:

There are severely limited recreational aquatic activities for Camp Schwab and Hansen personnel, as well as the future population at the housing areas at Camp McTureous and Camp Courtney. Due to the lack of a mooring pier, sunfish boats and small motor boats at Camp Schwab are beached between uses. Beaching increases the wear and tear on the boats and limits their size.

2. RECOMMENDATION:

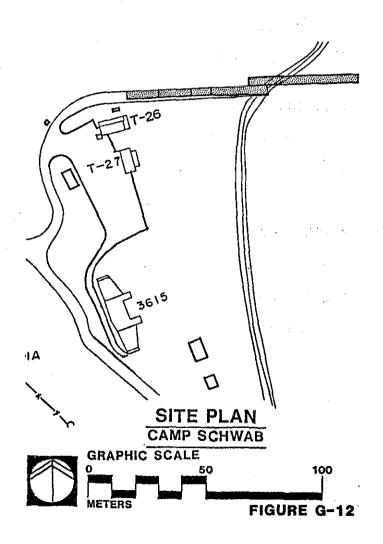
Construct an asphalt access road and reconstruct a portion of the existing road. Construct a concrete boat launch ramp and 500 LF of pier with a 3.5 meter wide 1.2 meter thick concrete deck. Dradge for low tide berths and boat launchings. Include waterproof night lighting, navigation aids, cleats, deadheads, fenders, and utilities.

3. SITING CONSIDERATIONS:

Construction of a complete small boat facility is feasible due to the shallow bay and excellent beach adjacent to the site.

4. PHASING:

5. DEMOLITION:



D. BEACH CABANAS CONVERSION (P-697)

Category Code: 740-81 Ouantity: 20 units

Cost: \$540K

Funding Year: FY90

. PROBLEM:

Many private resort hotels and non-Marine Corps recreational facilities and beaches are closed to E-1 to E-5 Marines. Also, the increase in accompanied tours will further generate a requirement for the use of Ora Wan Beach for overnight stay.

2. RECOMMENDATION:

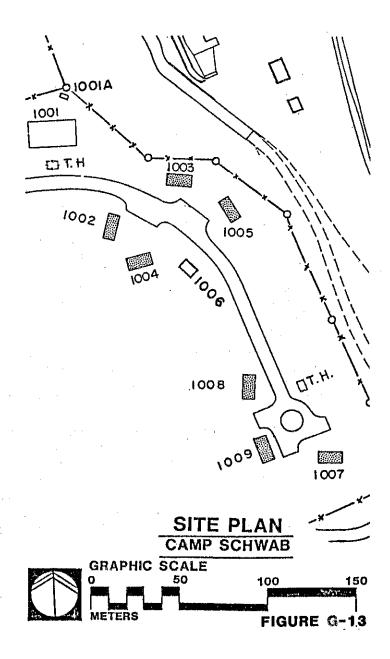
Construct a 20 unit, beach-side lodging facility for use by Navy/Marine Corps personnel and their dependents.

3. SITING CONSIDERATIONS:

Sited adjacent to Ora Wan Beach using existing access roads.

4. PHASING: None

.5. DEMOLITION: None



E. MINATURE GOLF COURSE (P-746)

Category Code: 750-40 Quantity: 18-hole course

Cost: \$150K

Funding Year: FY90

1. PROBLEM:

There is a valid requirement for a nine-hole regulation golf course, but insufficient space. The facility is required to improve recreational facilities at Ora Wan Beach. The existing facilities at Ora Wan beach consist of two temporary buildings used for equipment issue, a picnic shelter and an AAFES snack bar. These facilities are geared to day users many of whom utilize shuttle buses from the southern camps. Most of the personnel stationed at Camp Schwab are on unaccompanied tours and do not have adequate means of transportation. The surrounding area is undeveloped and has few recreational activities available to personnel. Future planned development consists of five more picnic shelters and a small craft marine. The demands for recreational facilities will be changing in the near future. With the addition of approximately 3,500 Marine Corps families, this beach area will see a substantial increase in usage. Currently 2,000 to 4,000 pm per month utilize the beach. Construction of this facility would provide a year round, night time recreational facility.

2. RECOMMENDATION:

Construct an 18-hole miniature golf course with synthetic turf, a 200 SF CMU building for administrative space and storage, lighting for nighttime play, and landscaping.

3. SITING CONSIDERATIONS:

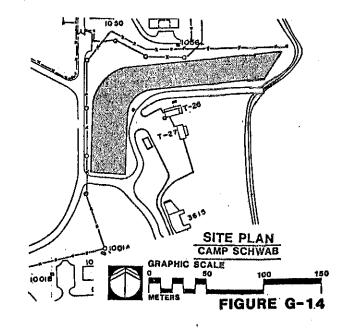
Sited on a proposed recreational area with boating facilities, cabanas, and picnic pavilions.

4. PHASING:

None

5. DEMOLITION:

None



F. SNCO CLUB ADDITION (P-682)

Category Code: 740-66

Quantity: 600 SF Cost: \$228.7K Funding Year: FY90

1. PROBLEM:

An addition to the existing SNCO Club is required to improve Club service to patrons by providing a separate dining room.

2. RECOMMENDATION:

Construct a 600 SF addition to the north side of Building 3438.

3. SITING CONSIDERATIONS:

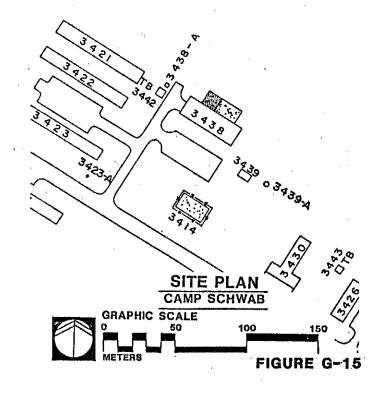
Addition to Building 3438; ferestration to take advantage of ocean view.

4. PHASING:

None

5. DEMOLITION:

None



5. MINOR CONSTRUCTION PROGRAM

equipment facility To meet minor or requirements, the Marine Corps, under the fund authority of Title 10, 2674, can construction projects of less than \$500,000. Projects under \$100,000 (R12 Projects) are approved by the Commanding General, MCB Camp Butler. Projects costing from \$100,000 to \$200,000 are approved by the Commandant of the Marine Corps. Funding of projects from \$200,000 to \$500,000 is approved by ASN or ASD. following projects in the Capital Improvement Program have been programmed for R2 funding and are shown on Plate G-5. Projects with vice maintenance/repair, numbers are construction projects with "R" numbers.

A. SMALL ARMS REMOTE TARGET SYSTEM (OK505R)

Category Code: 179-40

Scope: 1 each Cost: \$110,000

Funding Year: FY 87

1. PROBLEM:

There is no line moving M60/A1 tank target range on Okinawa. Construction of a facility using 1/60 scale (to include moving target devices) and 50 pop-up targets is required for use by the 1st Tracked Vehicle Battalion, as identified by the CG, 3rd Marine Division. The facility is needed to improve Marine tank crew gunnery proficiency.

2. RECOMMENDATION:

Construct a Small Armed Remote Target System (SARTS) to include moving target devices for the 1st Tracked Vehicle Battalion at Camp Schwab, Okinawa, Japan. Construction requires site preparation, grading, access road upgrading, and drainage structures. Once the Range Area grading is done, 50 concrete target bunkers and 10" PVC underground electrical conduit will be placed on the course. A tracked vehicle moving target system will be fabricated to run the entire width at the back of the range, parallel to the firing line. A second moving target device will be installed to give the tank gunners a small scale moving target device that

moves diagonally across their field of fire (Note Figure 1-B/C), a 200 foot firing line apron for five tanks is to be constructed. The tank position allows the tanks to fire at their correct gun elevation. The control tower will be equipped with controls of both moving target devices and the SARTS target holding mechanisms. This SARTS will be designed and constructed similar to the operational range at Camp Casey 77th Armor 2nd Infantry Division 8th U. S. Army Yongsan, Korea.

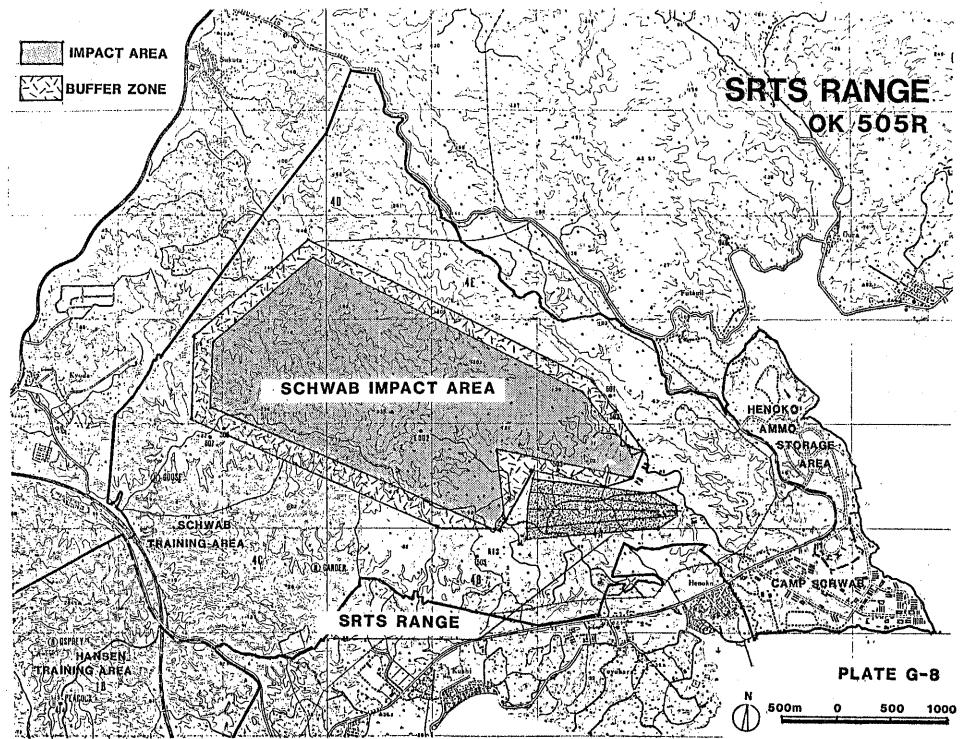
3 SITING CONSIDERATIONS:

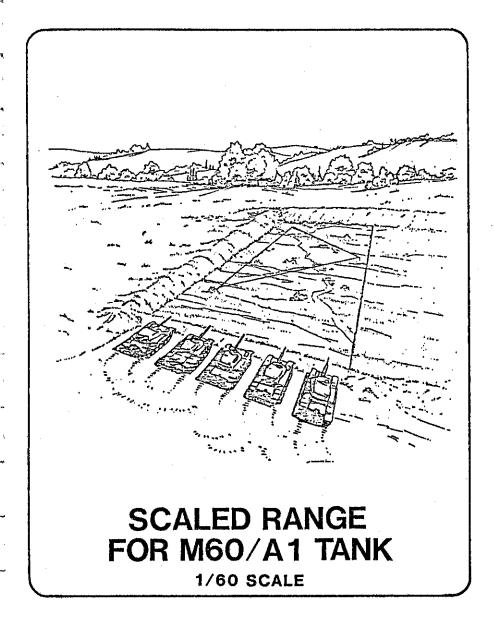
The facility has been resited to avoid conflict between the firing fan and a proposed dam. The new site assumes a fire-and-maneuver scenario utilizing the SARTS Range in conjunction with Range 10. Range 12 cannot be utilized during use of the SARTS range. However, this is already true in regards to the use of Range 10.

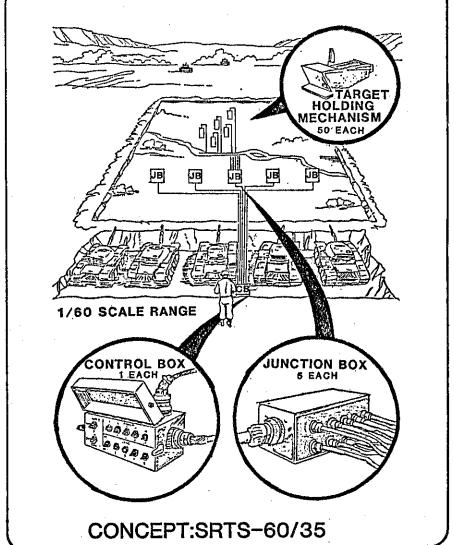
4. PHASING:

None.

5. DEMOLITION:







B. ARMORY/SUPPLY BUILDING CONVERSION (OK926R)

Category Code: 143-45/441-12

Scope: 19,020 SF Cost: \$193,000 Funding Year: FY87

1. PROBLEM

Camp Propery Section and 3rd Reconnaissance Battalion each occupy portions of Buildings 3448, 3424 and 3620 creating operational and logistical problems. New space is required to allow Camp Property to consolidate and for Organic Unit Storage and a small armory for the 3rd Reconnaissance Battalion.

2. RECOMMENDATION

Convert 19,020 SF of existing messhall, Bldg 3629, to an Armory and Supply Building with office space. Work to be done includes demolition of interior walls and built-in equipment, reconfiguration of building floor plan to accommodate two organizations, construction of a small armory and miscellaneous finish work. Provide additional lighting, fire protection and heating ventilation and air conditioning.

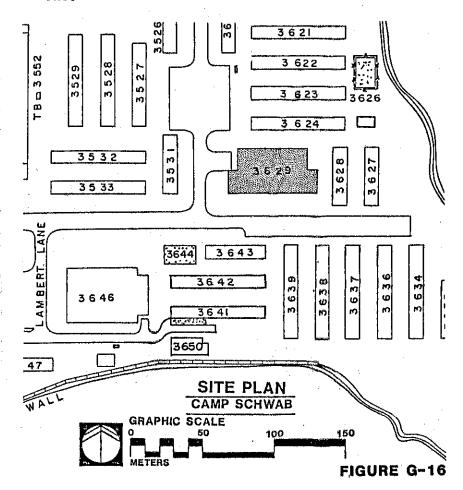
3. SITING CONSIDERATIONS

Building 3629 is across Green Street from 3rd Reconnaissance Battalion Headquarters, Building 3643.

4. PHASING

Building 3424 must be vacated by FY90 for use by the 4th Marine Regiment.

5. DEMOLITION



C. POLLUTION ABATEMENT/CONTROL (OK903R)

Category Code: 179-40

Scope:

Cost: \$135,000 (various camps)

Funding Year: FY87

1. PROBLEM

Pollution facilities abatement/control are required to prevent potential POL spills and waste POL in storage from entering surrounding ground water or sanitary sewer and storm drainage systems, and to improve existing facilities due to deterioration or because they current Environmental longer satisfy protection policies. There are several locations on Camp Schwab where the potential for POL contamination of groundwater, sanitary sewer and storm drainage systems is an ever-present problem. The majority of waste POL is generated by first and second echelon maintenance performed at motor pools combined with improper POL disposal, leakage from parked vehicles and occassional spills of POL in storage, also contribute to the program. In addition to ground water contamination, deterioration of plant life and the ocean Environment have also been noted. Additional potential include outdoor storage of compressed gas and flammable liquids. Existing facilities contain and control waste POL and other hazardous materials inadequate are non-existent. If this project is not approved,

the harmful effects of POL pollution will continue to worsen until the consequences are irreversible. Ground water and sea water will no longer carry sufficient oxygen to support existing plant, animal and Marine life. potential hazards of uncontained POL storage and compressed gas and flammable liquids that are stored outdoors will also continue to pose a threat to life and nearby property. addition, a substantial amount of funds and manhours will continue to be spent on sewage treatment, POL spill clean-up and repairing damage caused by excessive of contaminated run-off and drainage. Also the Marine Corps will remain in non-compliance with current Environmental protection regulation and Article III of the Status of Forces Agreement.

2. RECOMMENDATION

Construct POL containment facilities consisting of bermed concrete storage pads with drainage to oil/water separators. Above ground storage tanks are to be provided for waste POL. This project also includes concrete wash rack and parking pads and salvage of existing underground waste POL storage tanks.

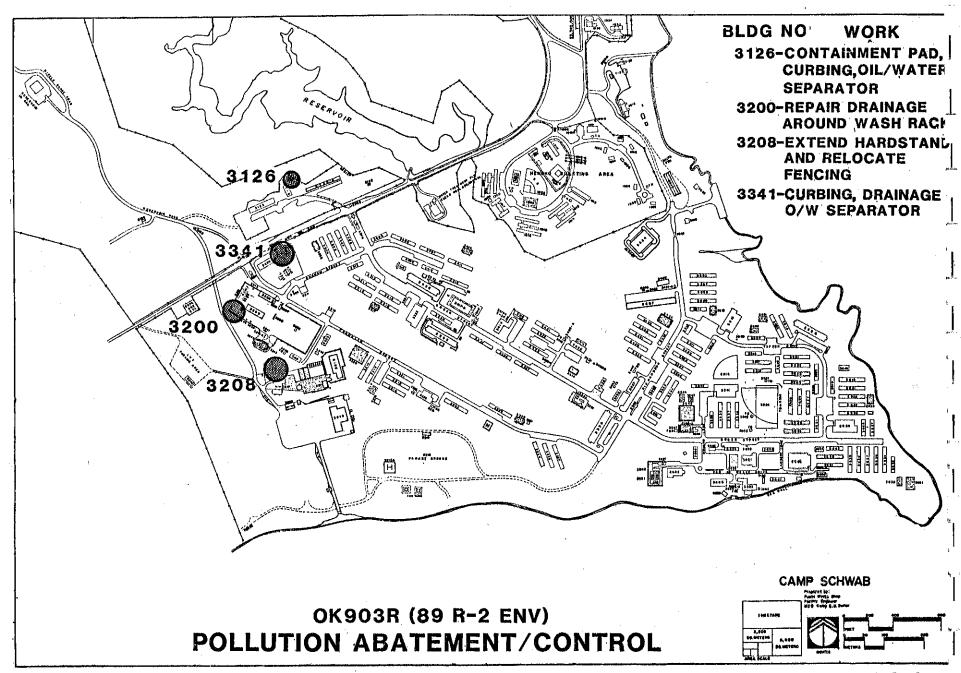
3. SITING CONSIDERATIONS

See Plate G-10.

4. PHASING

None.

5. DEMOLITION



D. INSTALL SMOKE DETECTORS (OK910R FIRE)

Category Code: Various
Scope: 750 Smoke Detectors

Cost: #199,000

Funding Year: FY 87

1. PROBLEM

Various buildings on MCB Butler Camps that have not received adequate smoke detection equipment during construction. They have been identified by the MCB Butler Fire Department. Most of these buildings have no fire protection equipment at all. They were built according to Japanese fire codes which required substantially less than NFPA. Consequently, a high potential for fire damage exists in these buildings. this project is not approved, a potential fire hazard will continue to exist in the buildings identified for receiving smoke detection equipment. If a fire did occur, it would cause a substantially greater amount of damage and potential loss of life due to the lack of an adequate detection and alarm system.

2. RECOMMENDATION

Install Photoelectric smoke detectors that utilize alternating current (AC) in 79 buildings located on Camp Schwab.

The smoke detectors will be compatible with a Radio Signal Alarm System to be installed at a later date. This type of smoke detector is designed to detect smoke before heat or lack or oxygen reaches a dangerous level. NFPA standards require that buildings such as living quarters, confinement facilities, medical facilities and child care centers be equipped with smoke detectors capable of sending a signal to a central location.

The project cost provides for the smoke detectors unit, installation of the unit and the wiring to the panel box for each building.

3. SITING CONSIDERATIONS

See Plate G-11.

4. PHASING

This project is one of six projects throughout MCB Camp Butler.

5. DEMOLITION

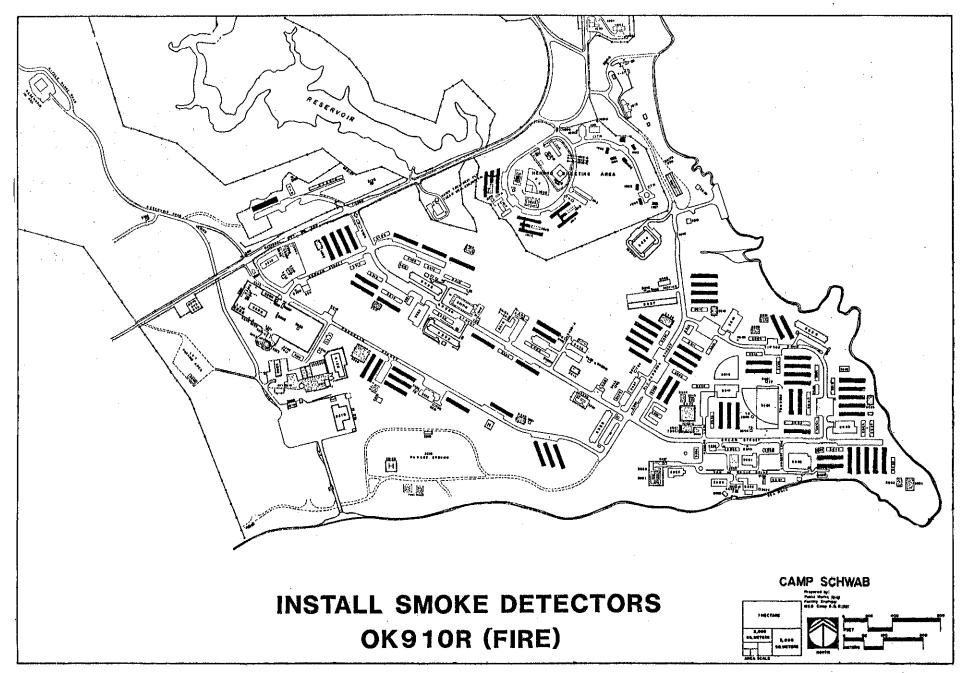


PLATE G-10

CAPITAL IMPROVEMENTS PLAN PROJECT SUMMARY

TABLE G-1

	Project No.	Projects	Cost	Funding Year					
A.	A. FACILITIES IMPROVEMENT PROGRAM								
	MC-6XXX-10	BOQ (03 and above)	2,477,000	JFY 86					
	MC-6XXX-18	BOQ (02 and below)	2,800,000	JFY 89					
>	MC-6010-01	BEQ/BOQ/Messhall (Ammo Company)	6,000,000	JFY 89					
	MC-6009-21	Public Works Shop	2,400,000	JFY 93					
	MC-6009-25	Warahouse	1,600,000	JFY 89					
B.	GOJ-INITIATED FIP								
		Hansen/Schwab Tracked Vehicle Rd	20,115,000	JFY 87 (survey)					
C.	MILITARY CONSTRUCT	ION PROGRAM							
	P-541	A/C Admin Buidlings (Phase One)	6,300,000	FY 87					
	P-864	BEQ/BOQ Upgrade	8,600,000	FY 90					
	P-539	A/C Unit Rotation BEQs	9,900.000	FY 88					
	P-426	Gymnasium Addition	1,250,000	FY 89					
	P-542	A/C Admin Buildings (Phase Two)	10,400,000	FY 90					
	P-872	Auto Hobby Shop Conversion	1,100,000	FY 91					

D.	DOUBLE PROGRAMME	D (JFIP AND MCON)	*	
	MC-6009-25/P-547	Organic Unit Storage	1,700,000	FY 89
	MC-6009-30/P-815	Communications Maintenance Shop	1,750,000	FY 92
	MC-6009-26/P-377	Auto Organization Shop	1,700,000	FY 92
E.	NAF CONSTRUCTION F	PROGRAM		
	N-411	Picnic Pavilions	300,000	FY 85
	N-322	EM Club Addition	480,000	FY 86
	P-656	Boating Facility	1,200,000	FY 88
	P-697	Beach Cabanas Conversion	540,000	FY 90
	P-746	Minature Golf Course	150,000	FY 90
F.	MINOR CONSTRUCTION	N PROGRAM		
	OK505R	Small Arms Remote Target System	110,000	FY 87
	OK926R	Armory/Supply Building Conversion	193,600	FY 87
	OK903R	Pollution Abatement/Control	135,000	FY 87
	OK910R	Install Smoke Detectors	199,000	FY 87
		3.		L . 0/

H. ENERGY CONSERVATION PLAN

1. BACKGROUND

Presidential Executive Order (PEO) 12003 of July 1977 requires that all new U. S. Government buildings be 45 percent more energy efficient than similar buildings existing in 1975.

In addition to the 45 percent reduction in consumption mandated by PEO 12003 for new buildings, it also mandates a 20 percent reduction of energy usage in existing buildings, between FY75 and FY85. DOD augmented this requirement by an additional one percent per year, between FY85 and FY2000, to a total of a 35 percent reduction.

Commencing with the July 1975 relocation of Headquarters, MCB Camp Butler from Camp McTureous to Camp Zukeran, Camp Butler started experiencing a radical change of its facilities physical structure. After the acquisition of Camps Zukeran (renamed Foster), Kuwae (Lester) and Makiminato Service Area(Kinser) from departing Army Commands, Camp Butler disposed of obsolete facilities at Camp Hague, Yaka Beach and Iha Castle and started an orderly program for disposal and/or replacement of other obsolete, energy inefficient facilities within the Base. A radical decline in the consumption of heating fuel per SF of facility was experienced. The present consumption per SF of building is 56 percent below FY75 consumption. This reduction in consumption can be attributed to the use of facilities with considerably less space heating load requirements than facilities used during

FY75. Records indicate that consumption of fuel for production of domestic hot water had increased, on an annual basis, until FY84. most probable significant causes of these increases are the use of an increased number of washing machines and decreased efficiency of boilers due to aging and oversizing. There are less people per SF of building than during FY 75. When the required heating load is considerably less than the design capacity of the boiler or the boiler is oversized for existing requirements, boiler efficiency decreases. Existing boilers were designed for larger loads than presently required. When the number of personnel assigned to a building is reduced, it results in the existing boilers for production of domestic hot water being oversized for the required load. The acquisition of additional UEPH and UOPH buildings allowed for a reduction in occupancy of these buildings with a corresponding reduction of requirements for hot water. Boilers originally designed to supply hot water for more than twice the present building occupancy are operating at a significantly lower efficiency than their potential maximum and consequently use more fuel per capita. It is not cost effective to replace existing boilers with smaller boilers, just to improve their efficiency, because of the large number of UEPHs which will be replaced in the near future, under the JFIP. Also, it had been observed that maids, employed by UEPH and UOPH occupants, secured the cold water supply to washing machines and used only hot water to operate them. In addition to this wasteful practice, full volumes of water were being used for light loads. To remedy this situation the hot water supply to washing machines was disconnected and water temperatures reduced to 110°F maximum where sufficient hot water storage capacity necessary to supply peak demand was available.

In spite of apparent wasteful practices, consumption of heating fuels per SF of existing buildings has been reduced by 56 percent. However, consumption of electricity has been reduced by only 14.5 percent as of the end of FY84. The base energy conservation record had dropped from 32.6 percent below the FY75 baseline during FY82 to 28.3 below the baseline during FY83. There was a temporary improvement during FY84 however, the increase in consumption trend is anticipated to continue over the next several years as existing non-air conditioned buildings are air conditioned or replaced with air conditioned buildings, unless more stringent conservation measures are implemented.

To persue this trend recommendations by three energy conservation surveys accomplished during FY83 and FY84 are being implemented together with the more stringent design requirements of the latest edition of DOD 4270.1-M, Construction Criteria Manual. For example Chapter 8 of DOD 4270.1-M requires building insulation to comply with minimum established requirements, whether cost effective or not, when new air conditioning systems are installed or existing systems are replaced. requires that all cost effective energy conservation improvements to the building be identified and either accomplished or scheduled for implementation prior to/or concurrent with the mechanical equipment change before proceeding to design and sizing of mechanical equipment for heating and/or air conditioning.

It is possible for Camp Butler to continue complying with PEO 12003 but it will require the complete eradication of misuse and waste. Every echelon of leadership within the Base is responsible for prevention of waste or misuse which used to be commonplace within many areas of the base.

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Only the state of the art on energy conservation technology, with rigid, tamper proof controls, will preclude Camp Butler falling into noncompliance with the conservation goals established by higher headquarters. These goals are attainable only if efficient design and rigid controls to limit consumption to the absolute minimum requirements are provided as prescribed by current DOD and Marine Corps regulations.

2. CONSERVATION PLAN

A. GENERAL

- (1) Provide an Energy Management System (EMS) to control all phases of production and consumption in large buildings, such as the base exchange. Although these buildings are not under direct control of Camp Butler, they are large users of non-reimbursable energy. Camp Butler is required to support these facilities but cannot control their operations.
- (2) Provide an EMS for small groups of buildings, such as bachelor quarters,

warehouses, and other community support facilities. The monitoring and control equipment should be located in spaces manned 24 hours per day.

- (3) Install utility meters for each new facility which is not connected to a central production and distribution plant. At central plants, provide utility meters to measure both consumption and production. This is required by MCO P11000.9B.
- (4) Where possible, consider architectural alternatives such as building orientation width/length ratio, number of stories, exterior wall construction, reduced window areas, and tinted glazing or solar film.
- (5) All new buildings must comply with "U" factor requirements in Table 8-1 of DOD 4270.1-M. Construction Criteria Manual.
- (6) Provide setback controls for all heating and air conditioning systems.
- (7) Implement requirements of paragraphs 8-3.2.C and 8-4.1 of DOD 4270.1-M.

B. ELECTRICITY

(1) Include the installation of watt-hour meters in the designs of new lighting systems for outdoor facilities which have not been previously lighted. Energy consumed by these facilities can be deleted from DEIS-II reports, if adequately metered. Under DEIS-II, all energy consumed as a utility is chargeable

to the SF in existing buildings unless it can be determined, by actual metering, that a portion of the energy was not consumed by existing buildings in the base line.

- (2) Design all lighting systems for the minimum authorized DOD lighting standards as prescribed by NAVFACINST 11012.146. Task lights to supplement standard lighting is authorized where adequately justified.
- (3) Provide only the most efficient lighting systems consistent with requirements. Sectionalize areas and provide electronic motion detector switches to automatically turn off unneeded lights.
- (4) Provide programmable electronic time control for lighting and equipment not otherwise controlled by an EMS. All lighting systems, appliances, and heating/air conditioning systems which provide for personnel comfort must be secured during periods of non-occupancy.
- (5) Comply with requirements of paragraph 8-4.12 of DOD 4270.1-M

C. HEAT AND FUEL

(1) Design heating systems to provide only for minimum requirements in the building. DOD established temperature standards must be incorporated in the designs and heating equipment sized accordingly. Do not oversize heating and appurtenant equipment to provide for unneeded or unknown safety factors.

- (2) Where possible, provide supplemental heating for small sections of BEQ, BOQ and administrative buildings which are used during periods when the building is not normally occupied to allow securing the central heating system. Supplemental systems, however, should be connected to the same EMS or programmable electronic time control as the central system as necessary to preclude simultaneous operation of both systems.
- (3) Adjustable thermostats or automatic setback controls shall have a maximum setting of 72°F (22°C) as manufactured. The use of heating thermostats with settings higher than 72° is prohibited by DOD and Marine Corps regulations. The actual setting, except for medical facilities, shall be the setting required to raise the room temperature to a maximum 65°F 68°F. Provide outside temperature reset control.
- (4) Provide interlocking devices on windows to turn off heating and air conditioning systems when windows are opened. Operation of heating and air conditioning systems with opened windows is probably the most common energy misuse in Camp Butler.
- (5) Provide heat recovery for blow-down systems. Provide air preheaters, economizers and other heat recovery equipment. Whenever possible, avoid dumping condensate.
- (6) Provide the absolute minimum outside air make-up consistent with actual requirements.

- (7) Provide radiant heating only where ever possible. Do not provide convection heating if it can be avoided.
- (8) Design domestic hot water systems to provide for minimum requirements. Authorized maximum hot water temperatures, as delivered to the user, are 100°F in facilities without showers or bath tubs and 110°F in bachelor living quarters.
- washing machines in bachelor quarters buildings in lieu of one hot and one cold water lines. This Command has disconnected the existing hot water lines to the approximately 1,200 washing machines presently installed in Camp Butler. Water at the maximum authorized temperature of 110°F does not provide for cleaner or germ-free wash. When the hot water is mixed with cold water, the washing water temperature is approximately 90°F which is not a great improvement over the approximately 70°F temperature of the cold water.

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D. AIR CONDITIONING

- (1) Design of air conditioning systems shall be in accordance with criteria provided by Chapter 8 of DOD 4270.1-M.
- (2) Where possible, provide window or through the wall air conditioners for duty officers and shift workers in large buildings to allow securing central systems during periods of non-occupancy. Window or through the wall units should be controlled by the same EMS or

programmable electronic timer as the central system to preclude simultaneous operation of both systems.

- (3) Provide programmable thermostats or as setback controls for each zone. All controls shall be located in spaces accessible only to authorized maintenance personnel.
- (4) Provide the absolute minimum outside air make-up consistent with actual requirements.
- (5) Provide waste heat recovery systems to capture some of the heat rejected by compressors and use for domestic hot water heating in buildings with hot water requirements, for air preheating in systems requiring dehumidification, and for winter space heating of adjacent spaces where air conditioning systems are used year-round.
- (6) For facilities, such as data processing and communications, which require year-round air conditioning, consider reducing the cooling loads by recovering or exhausting some of the heat generated by the equipment for use in adjacent heated areas.
- (7) Provide air curtains at doors with heavy traffic to minimize cooling and heating loads. Provide interlocking switches with time relay to turn off air curtain during extended periods of no traffic through the door.

- (8) As an alternative to air curtains, provide vestibules at entrances with heavy traffic.
- (9) Install tinted glazing or solar film on windows to reduce solar heat gain through glass.

I. SITE DEVELOPMENT

1. PURPOSE

The purpose of this Section is to demonstrate the sequential development of Camp Schwab and Henoko, to illustrate the changing landscape, validate construction sequencing and to identify (if not resolve) problems in the site development scheme and programming requirements.

Since the U.S. fiscal year starts October and the GOJ starts April, this section discusses projects in the context of the calendar year, to avoid confusion and to enhance useability by the Camp Commander and other on-site users.

Construction start dates, completion dates and demolition dates are based on best-guess forecasts using known programmed years for MILCON, NAF and GOJ projects.

The Site Development Section, in conjunction with the Capital Improvements Plan, is considered the most dynamic part of the Master Plan. It will be updated as required by the Public Works Branch, Facilities Engineer Division, MCB Camp Butler.

The Achilles' heel of master planning is the impact of planned construction on operational continuity. This Section, more than any other, demands scrutiny as (a) it most effects the Commander and other users in the time frame shown, and (b) due to scheduling constraints it is the least developed and relies on post-draft

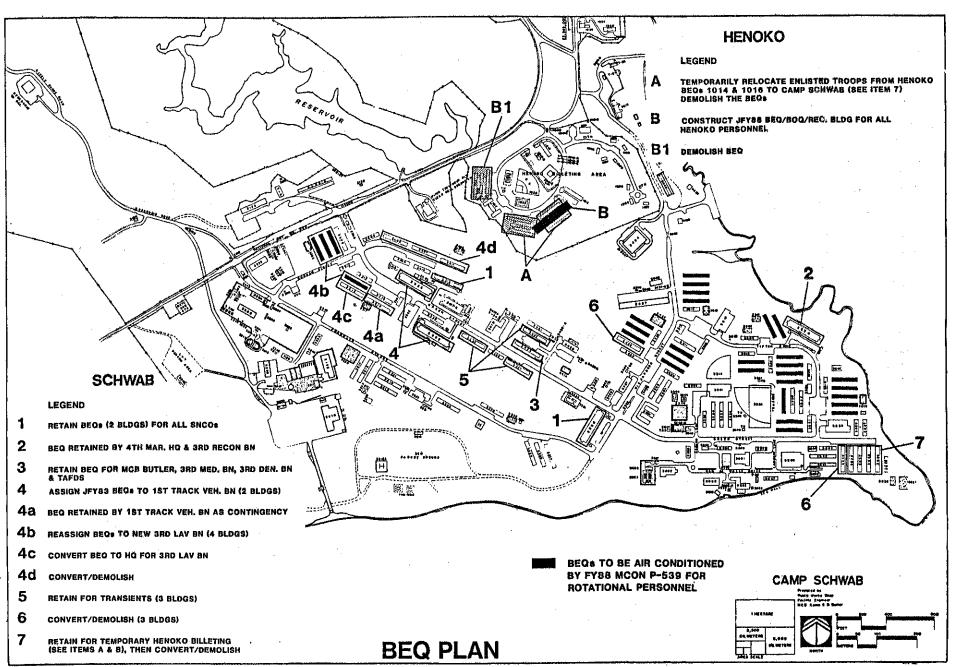
feedback from the leadership. All readers are asked to review this section and insure compatibility with user operational requirements.

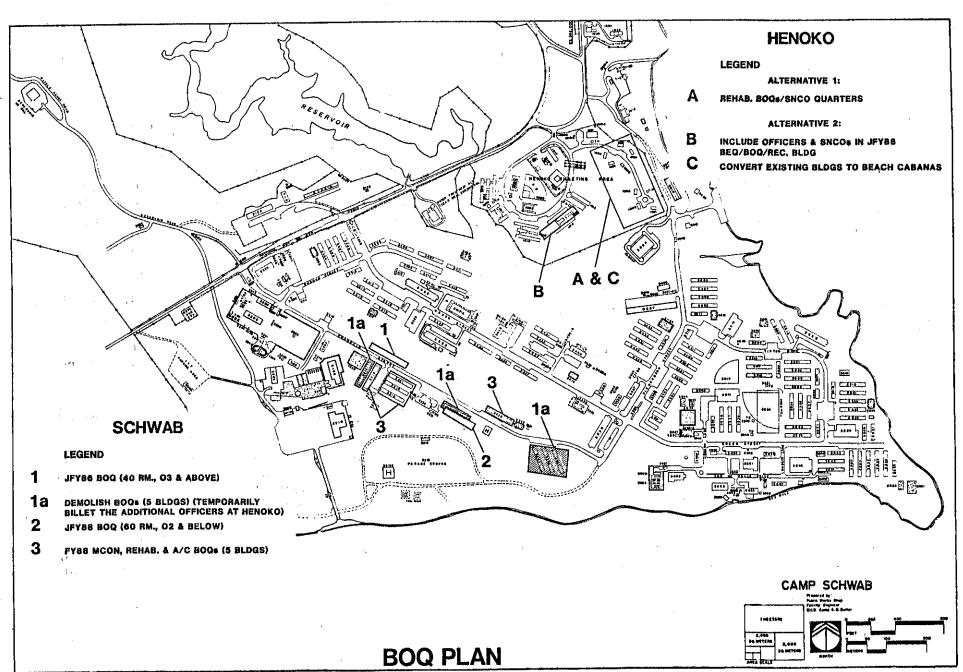
2. BEQ/BOQ IMPLEMENTATION PLAN

The implementation plan for BEQ's and BOQ's is provided in the BEQ/BOQ Development Plan, published in November 1985 by the Facilities Engineer Division, MCB Camp Butler. The objectives provided in the Plan are key to understanding the assignment of billeting and the movement of personnel during the construction evolutions discussed in this Section.

A. BEQ IMPLEMENTATION PLAN (PLATE I-1)

- 1. Retain BEQs 3330 and 3416 for SNCO's.
- 2. Retain BEQ 3630 for use by the 4th Marine Headquarters Company and the 3rd Reconnaissance Battalion.
- 3. Retain BEQ 3423 for MCB Butler, 3rd Medical Battalion, 3rd Dental Battalion, and TAFDS.
- 4. Assign JFY83 FIP-Constructed BEQs 3332 and 3425 to 1st Track Vehicle Battalion, thereby vacating BEQs 3304, 3306, 3307, 3314, 3316, 3318, 3323, 3404, 3406, 3407, 3409, 3411, and 3412.





10.11

PLATE I-2

- 5. Retain BEQs 3304, 3306, 3307, and 3314 incoming "A" Company of 3rd Light Attack Vehicle Battalion.
- 6. Convert BEQ 3316 to Company Headquarters for the "A" Company of 3rd Light Attack Vehicle Battalion.
- 7. Retain BEQ 3318 for contingency since it appears the accompanied tours initiative will not reduce the 1st Tracked Vehicle Battalion's billeting requirement sufficiently to consolidate all personnel into BEQs 3332 and 3425.
- 8. Retain BEQs 3323, 3327 and 3422 for transients.
- 9. Convert of demolish BEQs 3404, 3406, 3407, 3409, 3411 and 3412.
- 10. Reassign personnel in BEQs 3429 to BEQ 3423.
- 11. Convert or demolish BEQs 3326, 3428 and 3639.
- 12. Retain BEQs 3634, 3636, 3637, and 3638 for the temporary billeting of Henoko personnel (during MC-6010-01) then convert or demolish.
- 13. Temporarily relocate the personnel from Henoko BEQs 1014 and 1016 to Camp Schwab BEQs 3634, 3636, 3637 and 3638. Demolish Henoko BEQs 1014 and 1016.

14. Construct JFY88 BEO/BOO/Messhall Project No. MC-6010-01. Assign to Ammunition Company, 3rd Supply Battalion and demolish BEO 1019.

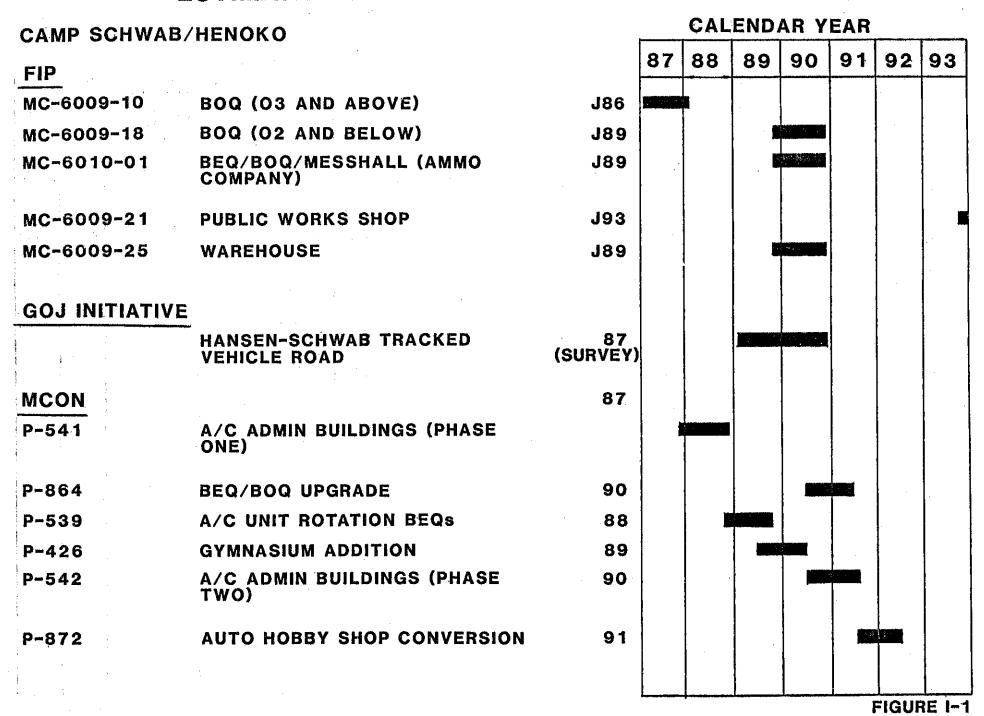
B. BOQ IMPLEMENTATION PLAN (PLATE I-2)

- 1. Construct JFY86 BEQ (40 Room 03 and above), Project No. MC-6XXX-10. Demolish BOQs 3214, 3223, 3224, and 3228 (depending on the progress of the accompanied tours increase, some officers may have to be temporarily billeted at Henoko.
- 2. Construct JFY88 BOQ (60 Room, 02 and below), Project No. MC-6XXX-18.
- 3. BOQs 3216, 3218, 3219, 3221, and 3329 are to be centrally air conditioned by FY88 MCON P-864.
- 4. Construct JFY88 BEQ/BOQ/Messhall Project No. MC-6010-01. Assign to Ammunition Company, 3rd Supply Battalion.

3. ESTIMATED CONSTRUCTION TIMES

Figure I-1 illustrates a best-guess for construction starts and Usable Completion Dates (UCD's) for projects discussed in Section G (Capital Improvements Plan). The dynamic nature of GOJ programming and the uncertainty of long-range NAF and MILCON programming all contribute to a degree of risk in using Figure I-1 as definitive in developing a logic of inter-connected construction starts. The start

ESTIMATED CONSTRUCTION SCHEDULE



ESTIMATED CONSTRUCTION SCHEDULE

CAMP SCHWAB/HENOKO				CALENDAR YEAR						
DOUBLE PRO	GRAMMED		87	88	89	90	91	92	93	
MC-6009-25/ P-547	ORGANIC UNIT STORAGE	89	2.	· ·	<u> </u>		a. (
MC-6009-30/ P-815	COMMUNICATIONS MAINTENANCE SHOP	92				i	* .			
MC-6009-26/ P-377	AUTO ORGANIZATIONAL SHOP	92						1		
NAF										
N-4 1 1	PICNIC PAVILIONS	85	PER	1. P. 23			A			
N-322	EM CLUB ADDITION	86								
P-656	BOATING FACILITY	88								
P-697	BEACH CABANAS CONVERSION	90					·			
P-746	MINATURE GOLF COURSE	90	152	23				*		
MINOR CONST	TRUCTION									
OK505R	SMALL ARMS REMOTE TARGET SYSTEM	87				,				
OK926R	ARMORY/SUPPLY BUILDING CONVERSION	87	. 47.							
OK903R	POLLUTION ABATEMENT/ CONTROL	87								
en e			<u></u>		<u> </u>	<u> </u>	<u> </u>	FIGUI	<u> </u>	

TABLE 1-1

DEMOLITION SCHEDULE-SCHWAB

1	/ACATE DATE	BLDG NO.	FΥ	PROJECT	REASON
				•	DUO OTOD NO LONGED DEGO
		3102			BUS STOP NO LONGER REQD
89	/00/00	3211	4		JFY89FIP, METAL BLDGS NOT REQD, ASE
88	/00/00	3214	J86	6xxx-10	JFY88 BOQ, 6xxx-18, ASB
88	/00/00	3223	186	6xxx-10	JFY88 BOQ, 6xxx-18, ASB
88	/00/00	3224	J86	6xxx-10	JFY88 BOQ, 6xxx-18, ASB
88	/00/00	3226	J86	6xxx-10	JFY88 BOQ, 6xxx-18, ASB
88	/00/00	3227	J86	6xxx-10	JFY88 BOQ, 6xxx-18, ASB
89	/00/00	3233	J86		JFY89 FIP, METAL BLDGS NOT REQRD
86	/10/01	T-028	J86	AAFES	MOVE TO BLDG 3538

TABLE 1-1
DEMOLITION SCHEDULE-HENOKO

VACATE DATE	BLDG NO.	FY	PROJECT	REASON
88/00/00	1013	J88	6010-01	ESR REQD
89/00/00	1014	J89	6010-01	JFY89 BEQ/BOQ/REC BLDG, ASB
89/00/00	1015	J89	6010-01	JFY89 BEQ/BOQ/REC BLDG
89/00/00	1016	J 89	6010-01	JFY89 BEQ/BOQ/REC BLDG
91/00/00	1018	J89	6010-01	SUBSTANDARD BLDG
91/00/00	1019	J 89	6010-01	SUBSTANDARD BLDG, ESR REQD, ASB

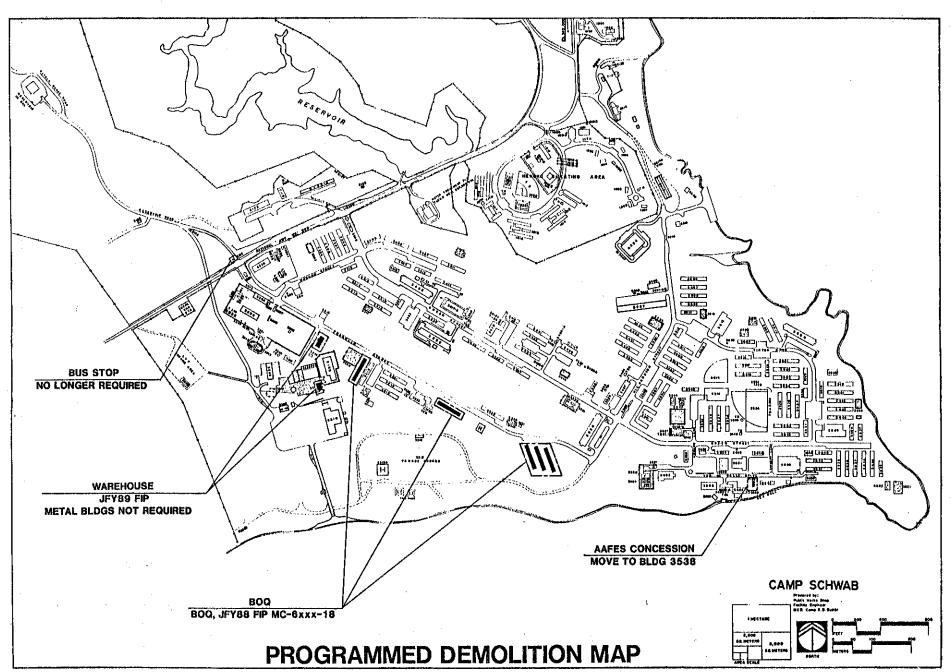


PLATE I-3

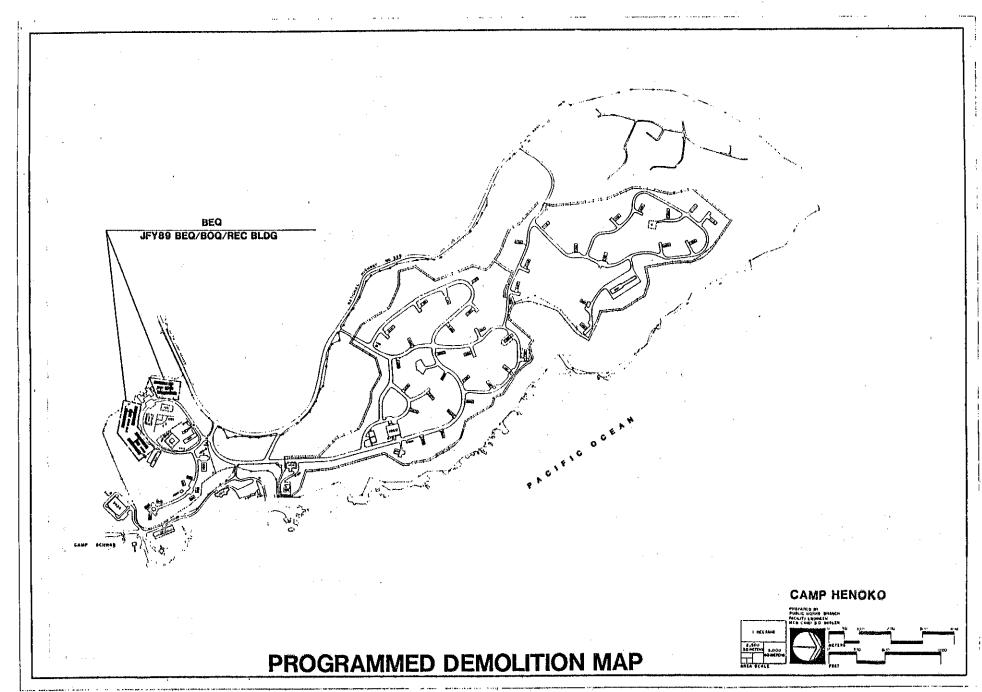


PLATE I-4

Technique, soliciting forecasts from the various players in Military Construction and host-nation construction for MCB Camp Butler. For unprogrammed projects, no best guess was attempted, although the projects are listed to illustrate the entire program.

4. DEMOLITION SCHEDULE

A demolition schedule, is essential because it tells planners when sites are available, and it tells the Facilities Maintenance Office which buildings are cost effective to maintain and which are not. A demolition schedule is shown as Table I-1.

A. PROGRAMMED DEMOLITION

For the purposes of this Master Plan, "programmed demolition" (shown by Plate I-3) refers to the demolition associated with projects approved for design and construction. If a project is programmed, the certainty of obtaining funds for construction (which in turn allows sequential demolition) is reasonably assumed.

B. PLANNED DEMOLITION

"Planned Demolition" (shown by Plates I-4) refers to the demolition associated with projects in the NAF, MILCON and JFIP Five Year Plan that have not been approved for survey nor design. The certainty of the demolitions

associated with these projects is lower than for programmed demolition. Currently, no demolition is planned for Camp Schwab and Henoko other than that programmed and illustrated by Plates I-3 and I-4.

5. SITE DEVELOPMENT SCENARIOS

Plates I-5 and I-6 illustrate the construction completed between the publication of the draft Camp Schwab and Henoko Master Plan in September 1985 and the publication of this final Plan in May 1987. Likewise, Plates I-7 abd I-8 illustrate "current" construction activity.

The remaining Plates illustrate the evolution of construction activity at Camp Hansen from 1986 through 1993.

A. 1987 CONSTRUCTION/DEMOLITION (PLATE I-9)

Building T-028 will be demolished and the AAFES Concessionnaire moved to Building Construction will begin on JFIP MC-6XXX-10, a two-story, 40-room BOO for grades 0-3 and above. Several NAF Projects will start construction in 1987: Five picnic pavillions at various locations, a 2,673 square foot addition to the EM Club (Building 3652), and an 18-hole minature golf course (currently listed as a FY90 Project but expected to breakground earlier). 19,020 square feet of existing messhall, (Building 3629) will be converted to an Armory and Supply Building with office space for the

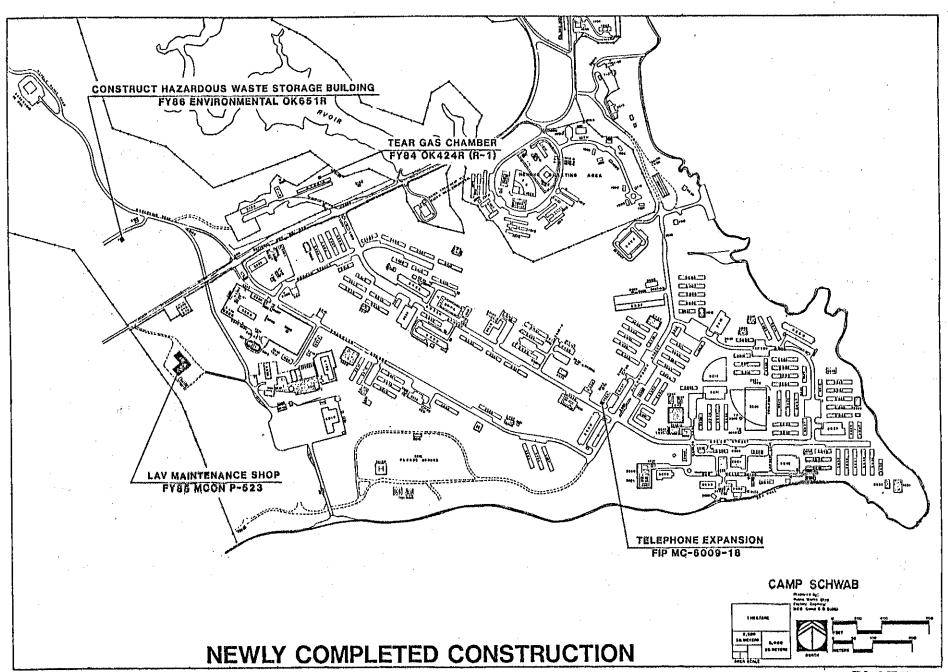
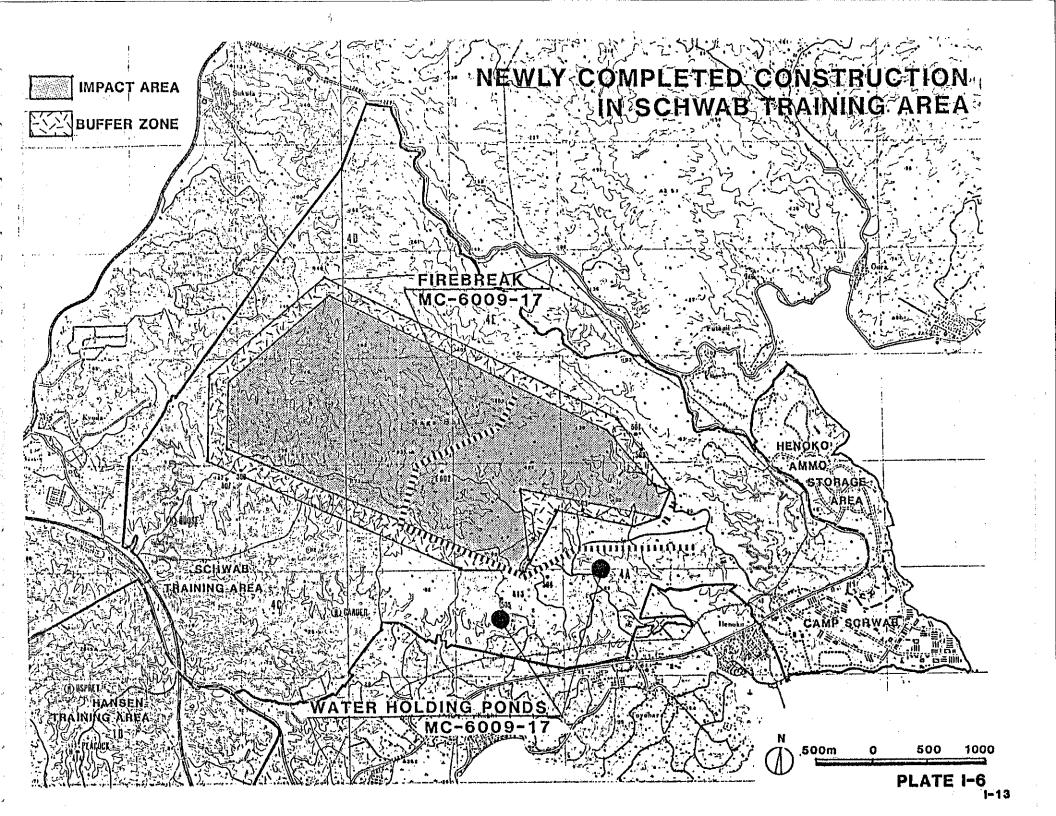


PLATE I-5



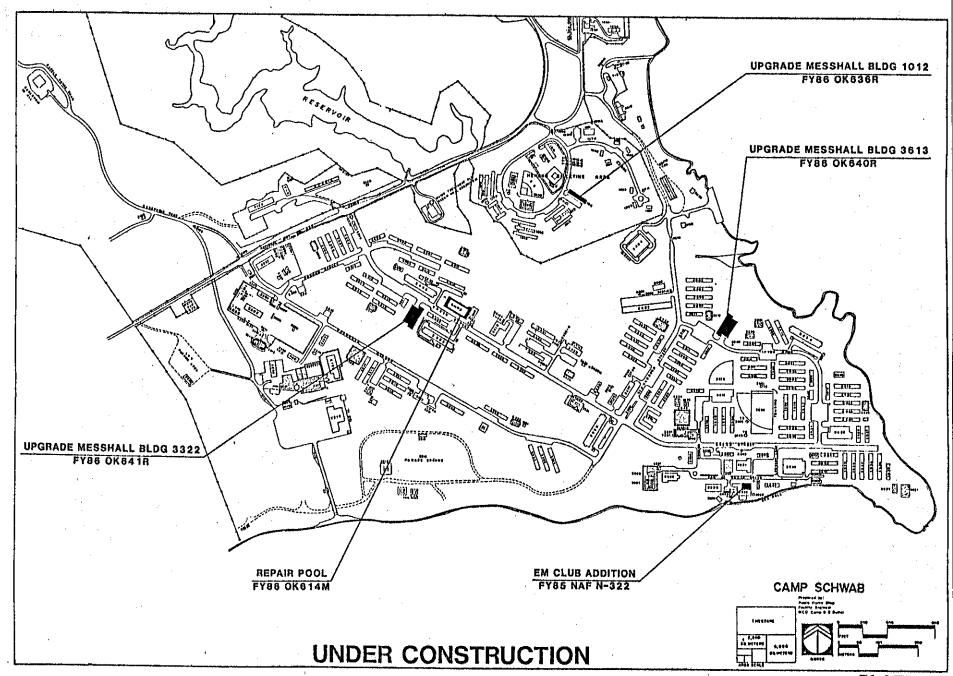
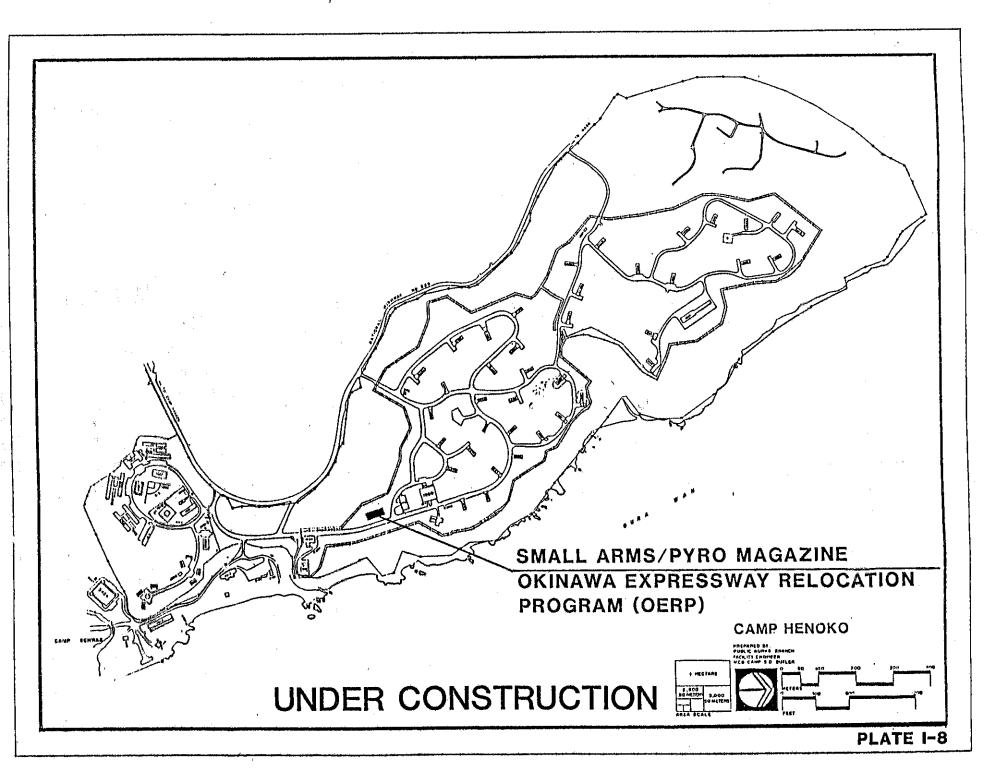
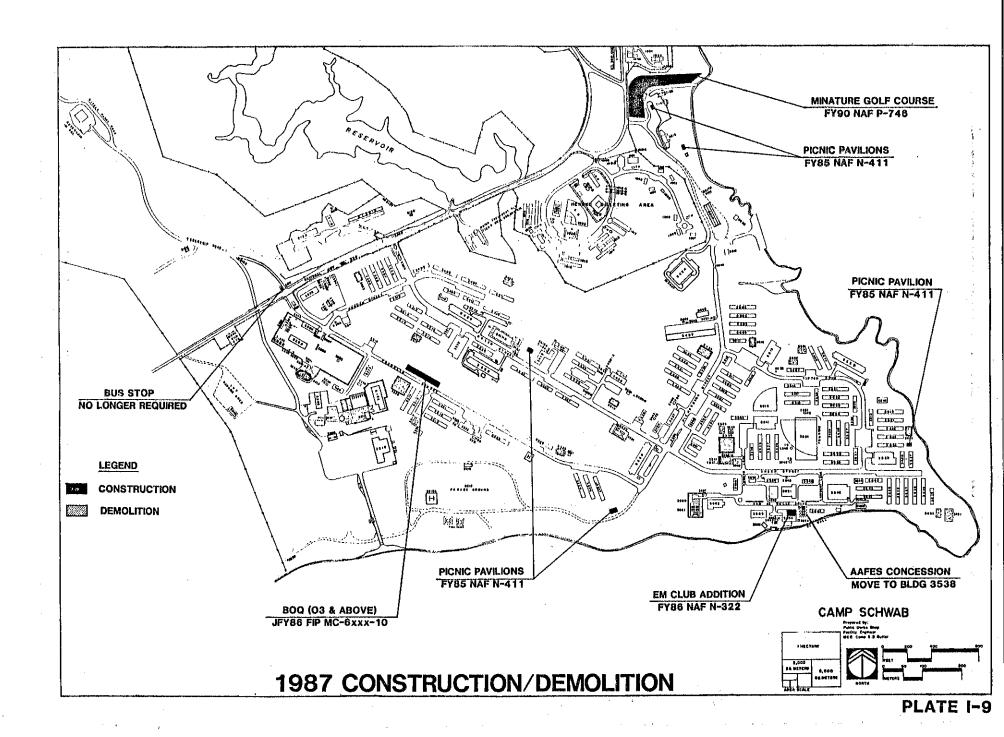


PLATE I-7





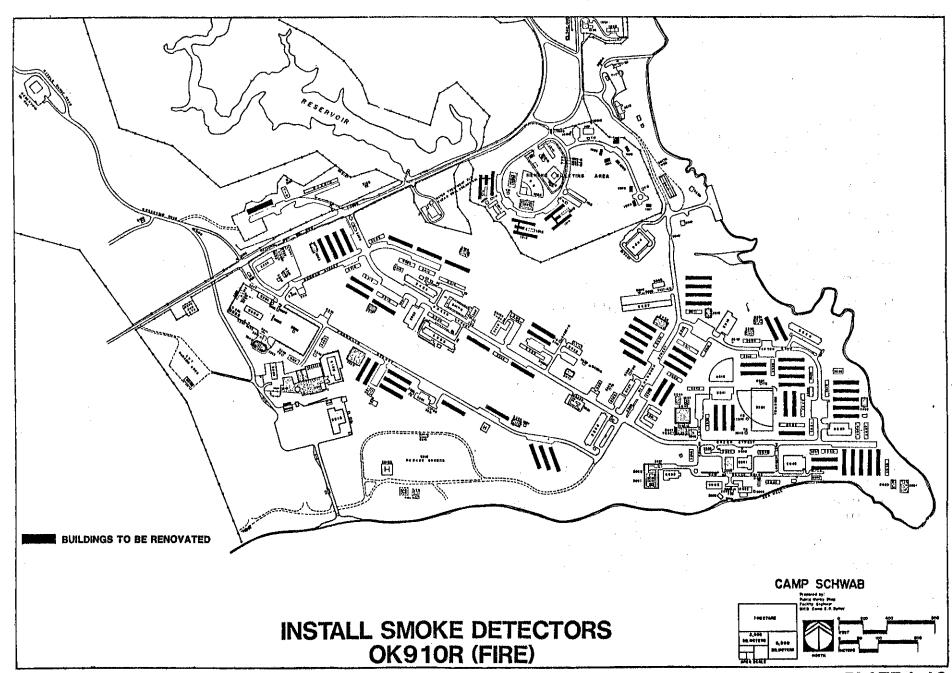


PLATE I-10

Reconnaissance Battalion.

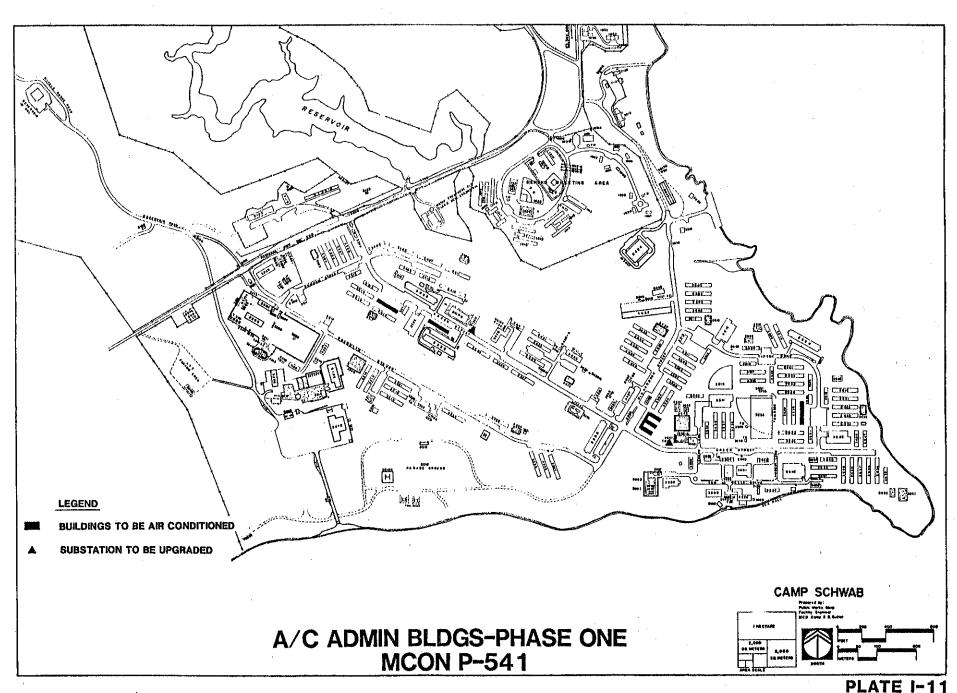
79 buildings at Camp Schwab (see Plate I-10) will be outfitted with photoelectric smoke Air-conditioning systems will be detectors. added to Admin Buildings 3319, 3501, 3511, 3527, 3643 under MILCON P-541. Pollution abatement and control facilities to prevent potential POL spills will be constructed at various sites on Camp Schwab, and the Small Arms Remote Target System (Plate I-11) will be constructed in the Schwab Training Area. Additionally, survey of the Schwab-Hansen host-nation Tracked Vehicle Road for construction will be conducted during 1987.

B. 1988 CONSTRUCTION/DEMOLITION (PLATE I-13)

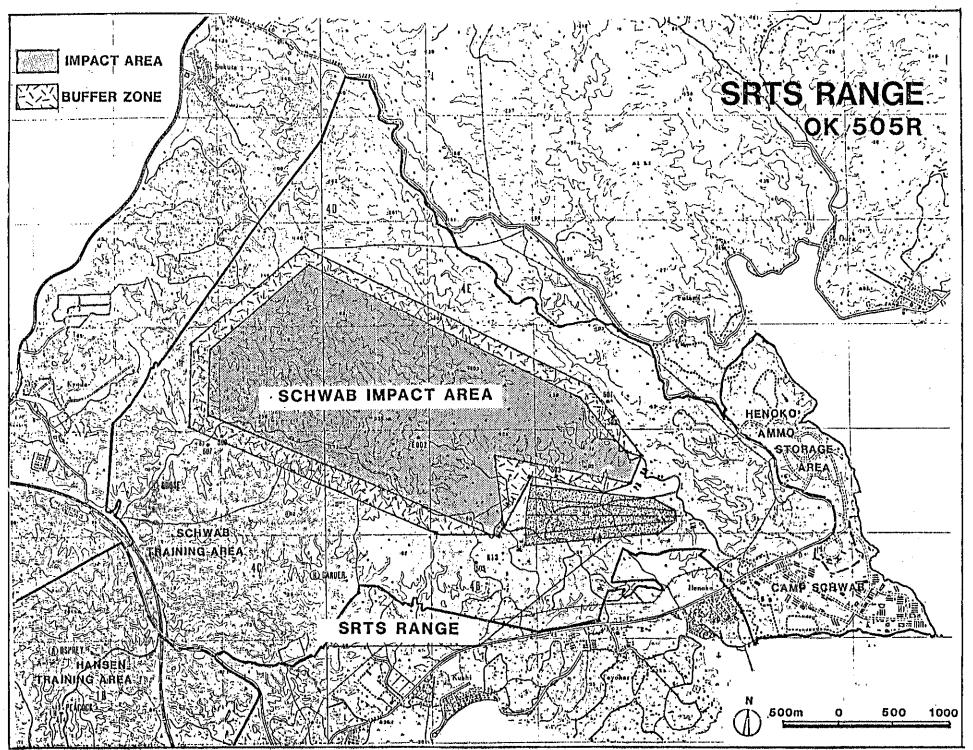
A \$1,200,000 Boating Facility will be constructed in 1988. Inadequate BOQs 2314, 3227, 3226, and 3224 on Camp Schwab will be demolished, along with Building 1013 in the Henoko Cantonment Area. As shown by Plate I-13, 31 open-bay, rotational BEQs will be air-conditioned during 1988.

C. 1989 CONSTRUCTION/DEMOLITION (PLATE I-15)

Concurrent with the construction of JFTP MC-6010-01, a 5,297 square meter BEQ/BOQ/Messhall facility for Ammunition Company at Henoko, Buildings 1014 and 1016 will be demolished. Buildings 3233 and 3211 on Camp Schwab will also be demolished.



LAIC IT!



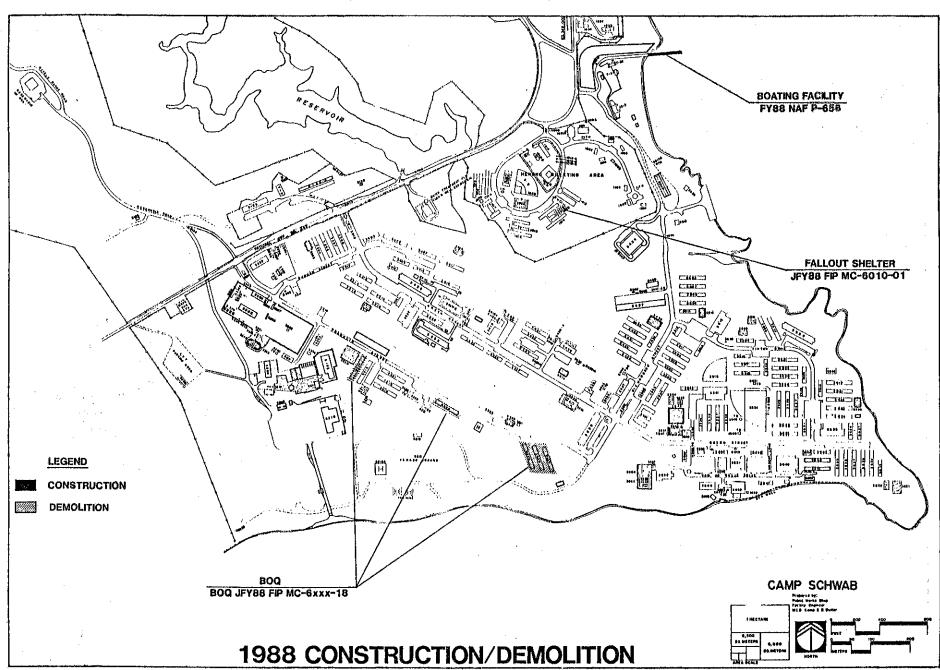
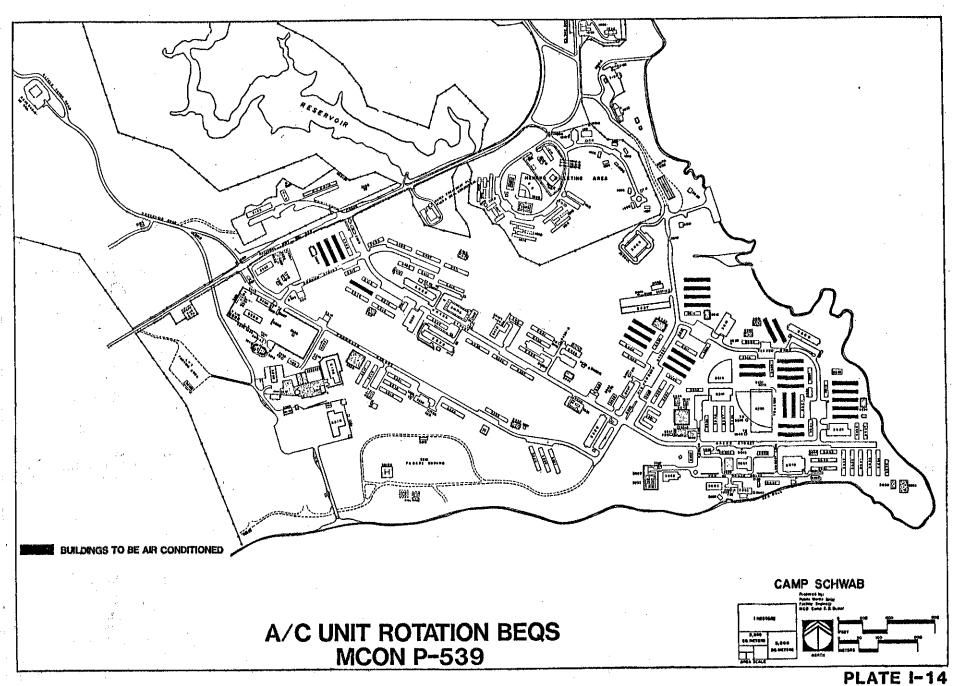
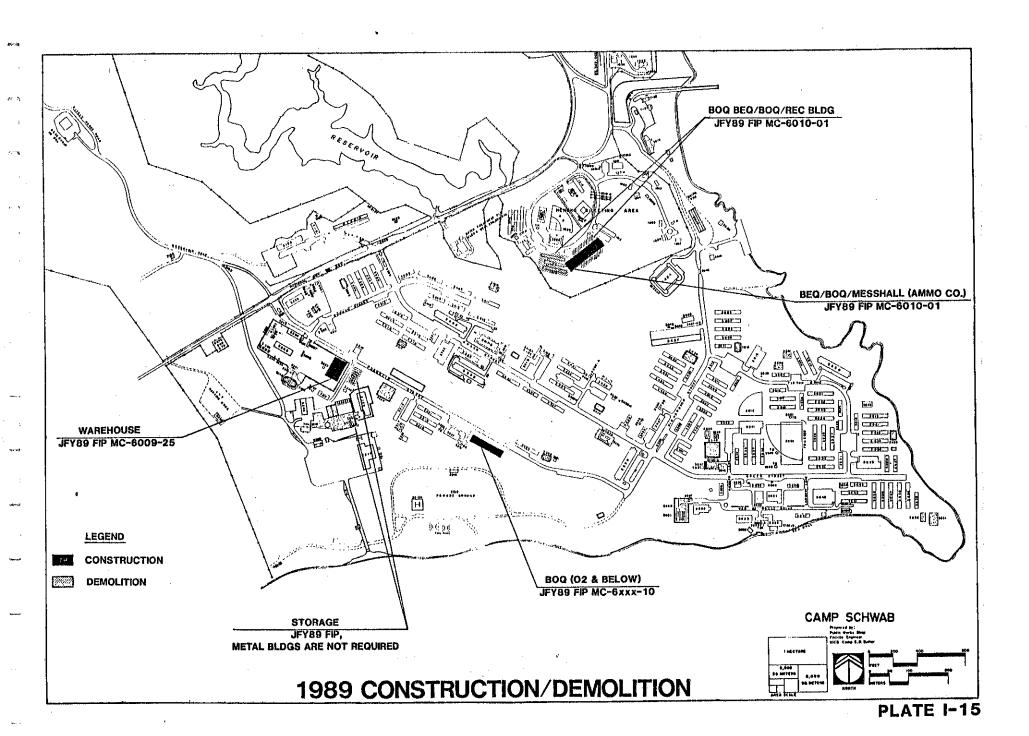


PLATE I-13





1-23

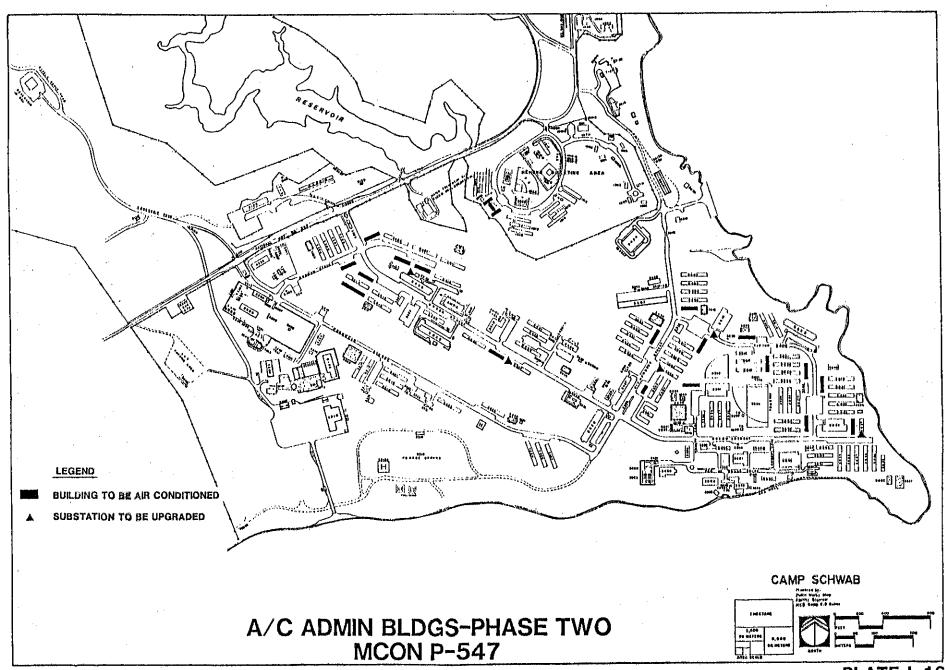


PLATE I-16

A two-story, 60-module BOQ for grades 0-2 and below will be constructed, during and after which the "VIP" helipad across from Building 3329 will be deactivated. A 1,867 square meter warehouse for the 1st Tracked Vehicle Battalion will also be constructed in 1989. As shown by Plate I-15, seventeen administrative buildings at Camp Schwab and one at Henoko will receive electrical upgrade and air-conditioning under MILCON P-542.

D. 1990 CONSTRUCTION/DEMOLITION (PLATE I-17)

BOQs 3329, 3221 and 3219 will be air-conditioned and benefit from upgraded electrical services, theinstallation of central TV/FM antenna, and rehabilitation of kitchens and bathrooms under MILCON P-864. (see Plate I-17).

Except for spill-over activity from 1989, no construction nor demolition is anticipated during 1990. Plate I-16 is reserved for changes to this Masterplan.

E. 1991 CONSTRUCTION/DEMOLITION (PLATE I-19)

Substandard BEO 4101 at Henoko will be demolished in 1991. Building 3311 will be converted to an Auto Hobby Shop under NAF P-872.

F. 1992 CONSTRUCTION/DEMOLITION (PLATE I-20)

A Communications-Maintenance Shop (P-815) and an Auto Organization Shop (P-377) are scheduled for construction in this timeframe.

6. CAMPS SCHWAB AND HENOKO 1987-1993

This Master Plan has developed a comprehensive facilities improvement and land management plan for the years 1987 to 1993, including nine host-nation projects worth \$540 million, six military construction projects worth \$37 million, and 5 NAF projects worth \$2.5 million. Because of the dynamics of host-nation construction, which provides the bulk of this programmed amount, there is a high degree of reliability that construction will commence. Plate I-20 is a look forward to a portrait of Camps Schwab and Henoko in 1994 as a result of this Master Plan.

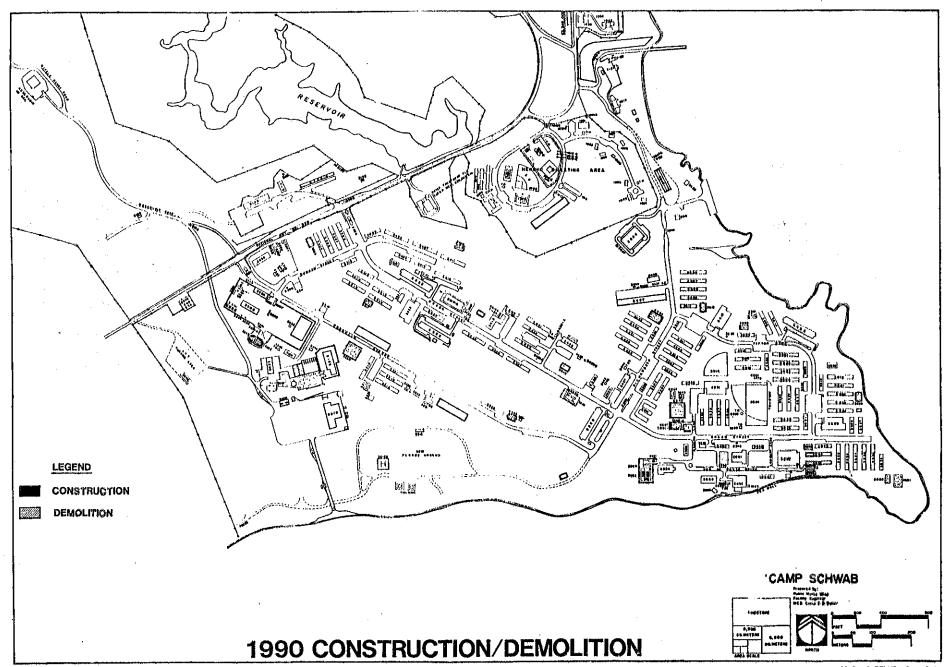


PLATE I-17

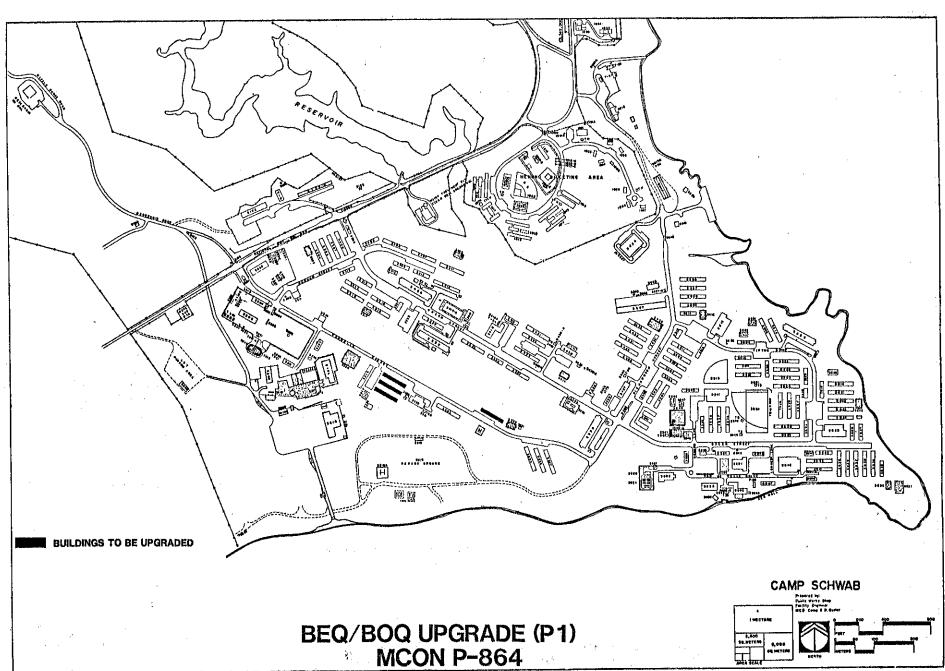


PLATE I-18

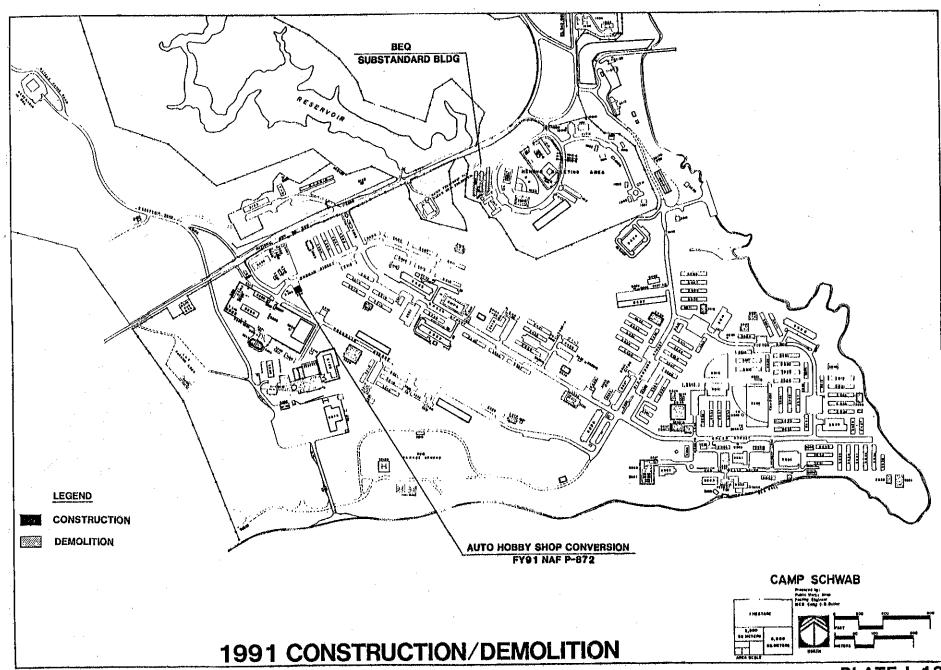


PLATE I-19

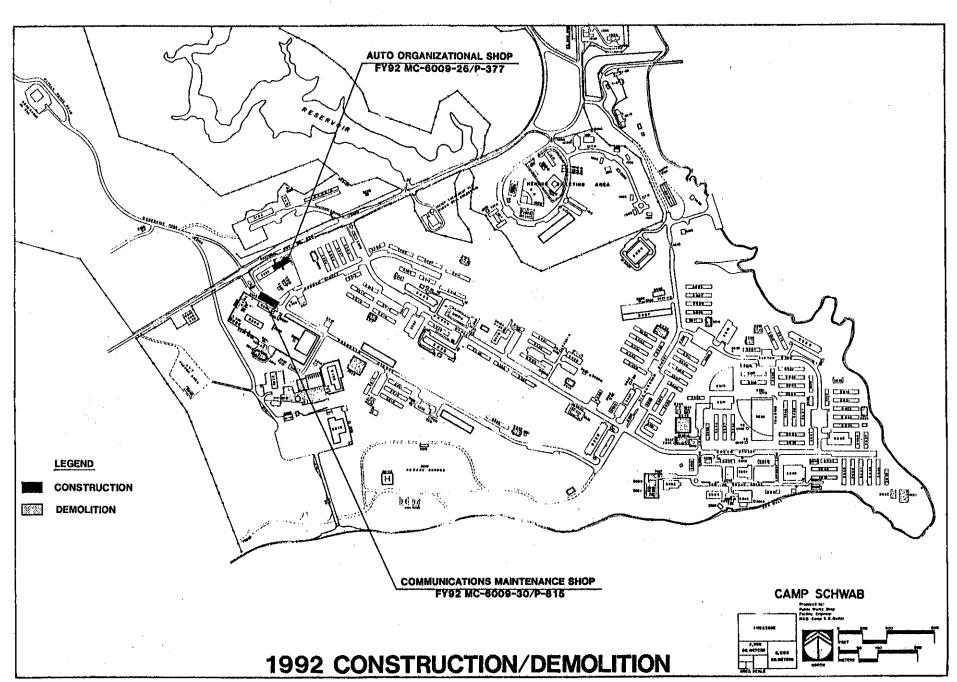


PLATE 1-20

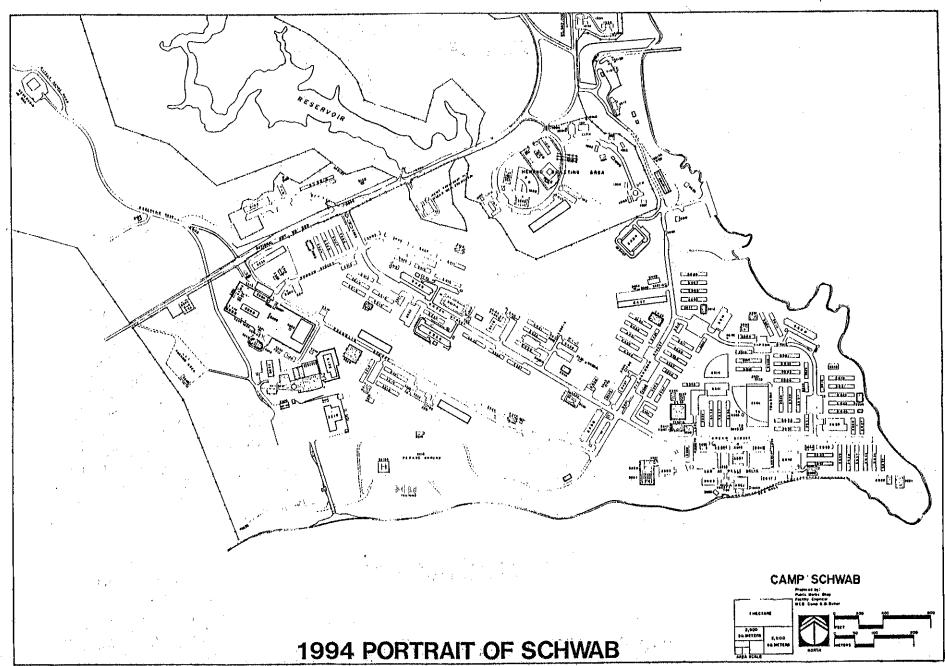


PLATE I-21

ENVIRONMENTAL PROGRAMS

AND

PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA)

MASTERPLAN FOR CAMP SCHWAB AND HENOKO AMMUNITION STORAGE AREAS, MCB CAMP BUTLER

PREPARERS:

Mr. J. G. Wallmeyer, Environmental & Natural Resources Branch

and

LCDR N. B. Hall, PE, RA, RLA Public Works Branch

FACILITIES ENGINEER DIVISION MCB CAMP S. D. BUTLER

P.O. Box 395 FPO Seattle WA 98773-5000

Prepared in accordance with OPNAVINST 6240.3 in compliance with the National Environmental Policy Act of 1969

1. INTRODUCTION

This is a PEA for a Master Plan in accordance with NAVFACINST 11010.63.B. It is intended to identify broad areas of impact of planning proposals contained in the Master Plan and will not examine, in detail, the environmental impact of each and every project.

Components of the Master Plan will have impact upon the environment, and certain projects may have significant impact. PEAs are prepared for individual projects as required under Military Construction (MCON) submission procedures and in accordance with MCO P11000.8B Chapter 3, Section PEAs are not prepared by US Forces for projects under the Japanese Facilities Improvement Program (JFIP). The Government of Japan has the responsibility to prepare environmental assessments in accordance with their laws and regulations for JFIP Projects.

2. NAME OF ACTION MASTER PLAN FOR CAMP SCHWAB AND HENOKO

(X) ADMINISTRATIVE

() LEGISLATIVE

3. DESCRIPTION OF ACTION

The project is a Master Plan for Camp Schwab and Henoko Ammunition Storage Area, MCB Camp Butler, Okinawa, Japan. It is a document which provides guidelines for future land use and facilities

development for the mid-range time frame (three to eight years). Camp Schwab and the Henoko Ammunition Storage Area are component installations of Marine Corps Base Camp S. D. Butler which provides housing, facilities, logistic, and administrative support for Fleet Marine Force units on Okinawa. MCB Camp Butler consists of eight major camps spread over a distance of 50 kilometers in length, encompassing 81,456 acres with more than 3,527 buildings and structures with a replacement value in excess of 1.3 billion dollars. Major construction projects proposed for Camp Schwab and Henoko are to be used for administration, community support, morale and welfare, training, supply, and maintenance.

4. ORGANIZATION

The Major organizations at Camp Schwab are:

A. MARINE CORPS BASE CAMP BUTLER

MCB Camp Butler provides training facilities, logistical support, and limited administrative support for Fleet Marine Force units on Okinawa and at Camp Fuji, Honshu Island, Japan.

B. CAMP SCHWAB CAMP COMMANDER

The Commanding Officer, Headquarters Battalion, 4th Marine Regiment serve as Camp Commander for Camp SChwab, including the Schwab Training Area.

C. 3D MARINE DIVISION

The 3d MARDIV is the basic Marine Corps ground organization, executing amphibious assault operations and such operations are directed, normally supported by Marine Corps aviation, Force troop augmentation, and US Naval forces.

D. 4TH MARINE REGIMENT

The 4th Marine Regiment is a major component of the 3d MARDIV with primary mission as infantry in support of amphibious operations.

E. 1ST TRACKED VEHICLE BATTALION

The 1st Tracked Vehicle Battalion, subordinate to the 3d Marine Division, is located at Camp Schwab.

F. 3RD LAV BATTALION

"C" Company, 3rd LAV Battalion, subordinate to the 3d Marine Division, will be assigned to Camp Schwab during the summer of 1988.

G. 3RD RECONNAISSANCE BATTALION

The 3rd reconnaissance Battalion, subordinate to the 3d Marine Division, is located at Camp Schwab.

H. 3D FORCE SERVICE SUPPORT GROUP

The 3d FSSG provides sustained combat service support (CSS) to Marine Divisions, Air Wings, and other Marine Corps combat elements executing amphibious operations and subsequent operations ashore.

I. AMMO COMPANY, 3RD SUPPLY BATTALION

Ammunition Company, 3rd Supply Battalion, is assigned to the Henoko Ammunition Storage Area. The Commanding Officers of Ammunition Company serves as Camp Commander for the installation.

J. 3RD MEDICAL BATTALION

"C" Company Medical Battalion is subordinate to the 3rd FSSG and is located at Camp Schwab.

5. EXISTING SITE CONDITIONS

A. LOCATION

Camp Schwab (Facility Number 6009) and Henoko Ammunition Storage Area (Facility Number 6010) are situated along the eastern coastline of northern Okinawa in the jurisdiction of Nago City, as shown by Figures J-1 and J-2.

B. PHYSIOLOGY

Topography at Camp Schwab and Henoko is predominately steep and irregular. The Camp Schwab Training Area, located between National Highway 329 and a high mountain ridgeline

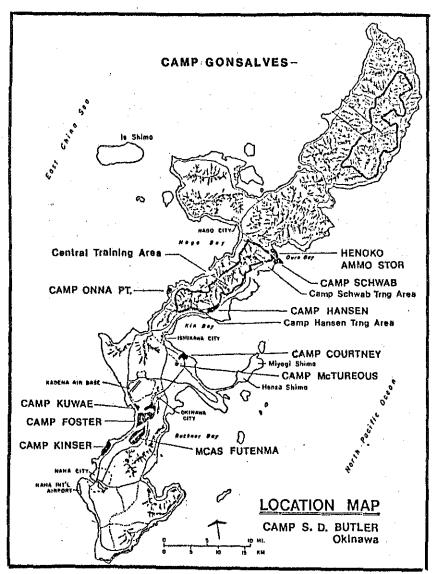


FIGURE J-1

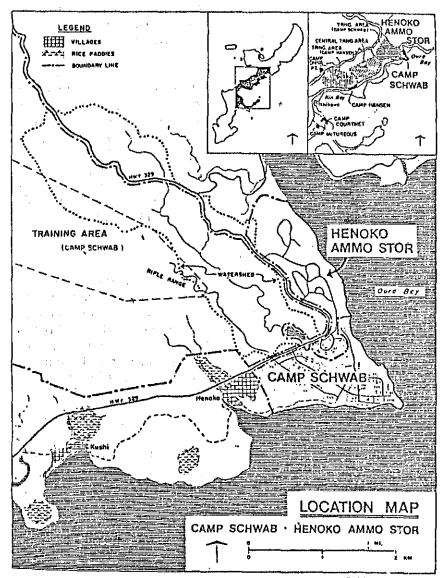


FIGURE J-2

running along the long axis of Northern Okinawa, contains many narrow ridges and deep gulches. Intermittent streams generally flow in a southeasterly direction toward the ocean. The Camp Schwab Reservoir, with a drainage basin of about 465 hectares, is located in the training area just northwest of Camp Schwab. Elevations in the training area run from about four meters at the streams to 332 meters at Mount Kushi.

Facility development occurs mainly near the shoreline where the terrain slopes are moderately level. Buildings for Camp Schwab are located on two adjacent parallel ridges and a large level area at the eastern corner of the complex.

The Henoko billeting area is located north of the Camp Schwab cantonment, across a deep ravine and the Henoko Bushi-gawa (Bushi River) flowing from the Camp Schwab Reservoir. The billeting area is relatively level. Terrain at the magazine storage area is steep and irregular, causing the magazine locations and alignments to be non-uniform.

C. GEOLOGY

Camp Schwab is located in the northern physiographic province of Okinawa, characterized by high, rugged mountains broad, flanking deeply dissected terraces and an irregular cliffed coast. Broad bays separated by large promontories indent the eastern coast. A normal fault

perpendicular to Highway 329 enters Camp Schwab from the northwest.

As shown by Plates J-1 and J-2, Camp Schwab and Henoko consist of young sedimentary deposits of Kunigami gravel overlaying moderately metamorphosed arkosic sandstone (Kayo formation). The Kunigami gravel consists of poorly bedded, sandy and clayey gravel. The Kayo Formation consists of interbedded slate, clay slate, phylitte and conglomerate. The upper part of the Kayo Formation is composed of thick sandstone beds separated by thick sequences of clay slate and phylitte. The lower part is composed of thick to thin beds of sandstone and conglomerate with minor amounts of interbedded slate and phylitte. While fresh sandstone is dense, dark and hard, it weathers into a yellow to tan, porous, and soft rock.

D. SOILS

There are four soil units at Camp Schwab and Henoko, as shown by Plates J-3 and J-4. They are:

1. OKINAWA CLAY LOAM

Okinawa clay loam consists of dark-brown to brown crumbly clay loam, the residuum from raised-reef limestone. The surface gradient ranges from gently sloping to hilly. The soil is deep, fertile, and well-drained. Horizons are faintly developed. Reaction is neutral (pH

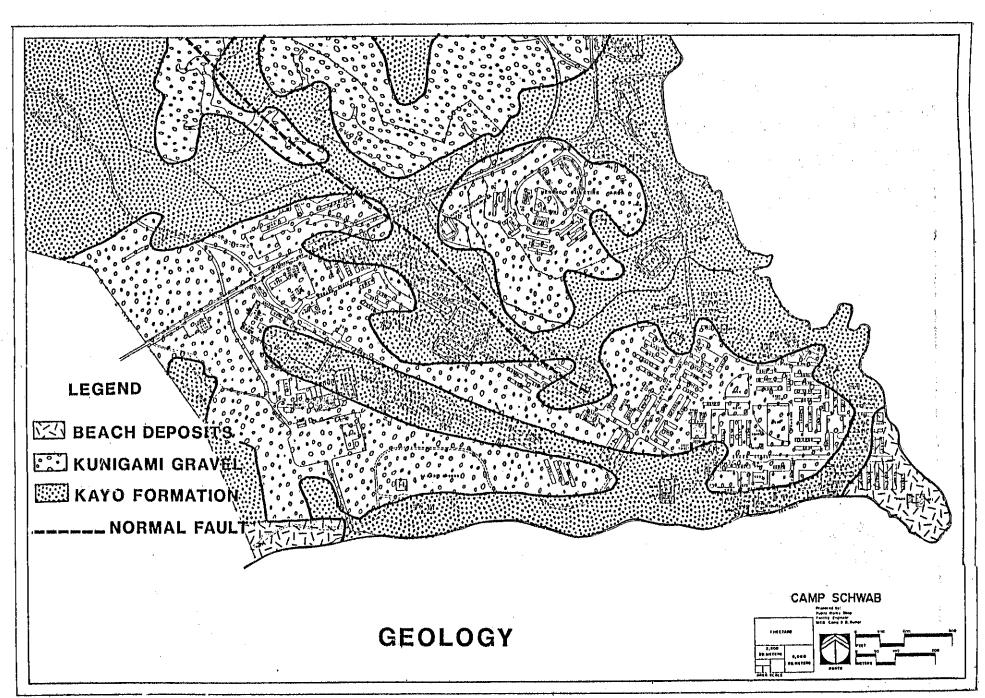
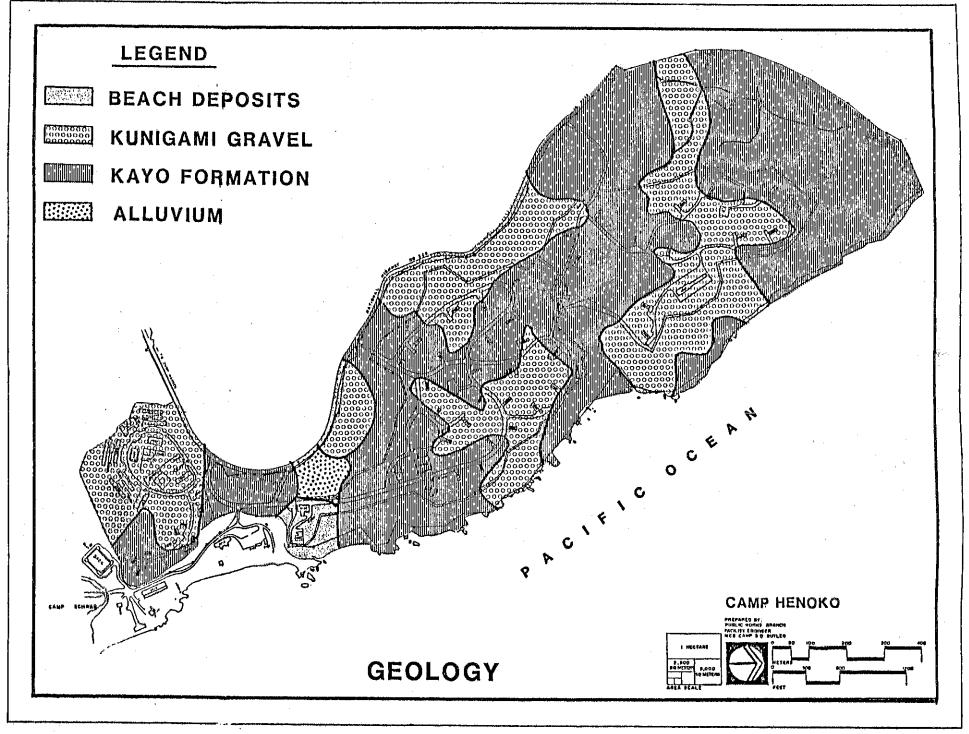


PLATE J-1



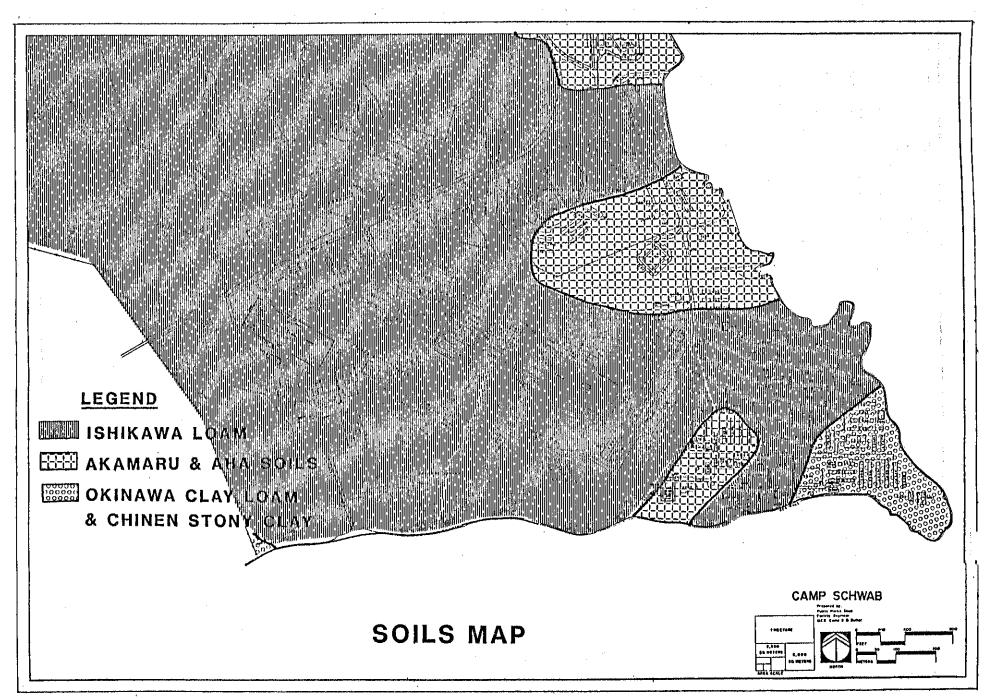
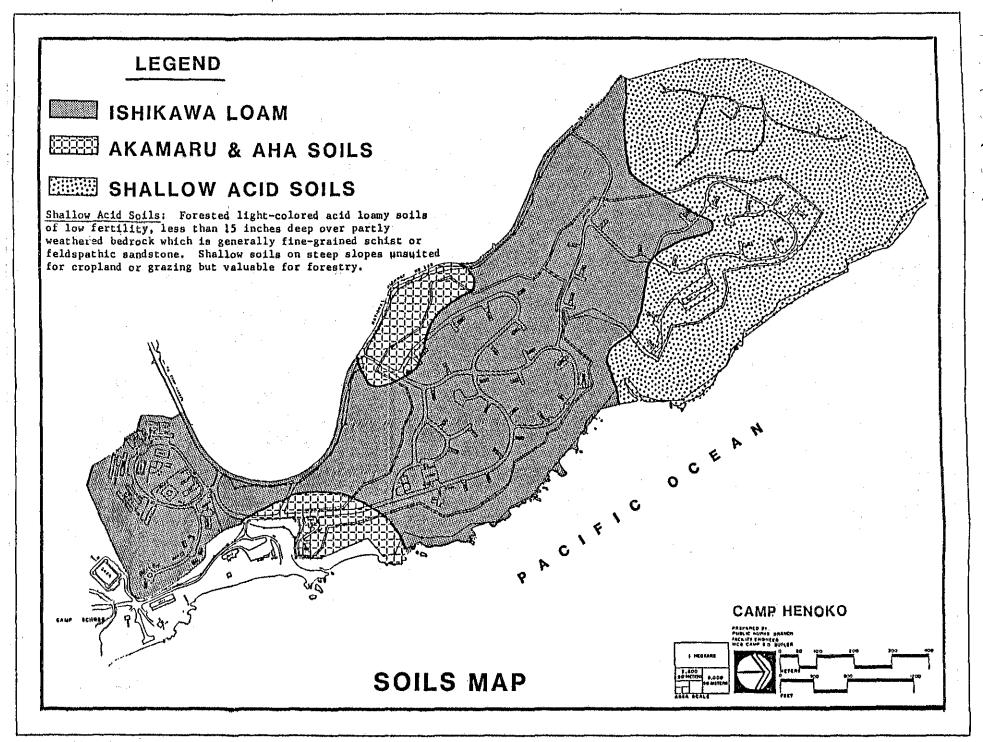


PLATE J-3



7.0) to slightly acid (pH 6.0). Okinawa clay loam is normally well drained (through internal percolation) and the soil depth ranges from 3 to 80 feet, with a average depth between 10 to 20 feet. This soil is found at the eastern point of Camp Schwab, where surf action has deposited reef limestone ashore.

2. ISHIKAWA LOAM

Ishikawa loam consists of deep acid soils, well drained, and found on dissected high Marine-terrance remnants. Surface run off is medium to rapid, and depth to water table 20-50 feet. Thickness of soil averages is 6 to 30 feet. This soil predominates the Camp Schwab cantonment area and Henoko.

3. AKAMARU SOIL

Akamaru Soil (80% of mixed Akamaru and Aha alluvial soils) consists of strongly mottled grayish-brown to olive-gray loamy alluvial soil developed in sediments washed from hills and mountains in the north. The soils occur on low-lying, poorly drained flood plains and coastal flats. These soils are of excellent fertility. The reaction is from slightly acid in most of the unit to alkaline locally.

The water table is at or near the surface of the ground most of the time. This soil is perdominately used for rice cultivation.

4. AHA SOIL

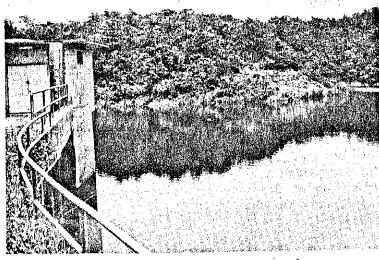
Aha Soil (20% of mixed Akamura and Aha alluvial soils) consist of brown to grayish-brown, medium textured, alluvial soils developed in recent alluvial sediments washed from the north. Fertility is excellent and reaction generally acid. Aha soils are washed mainly from phyllite and sandstone, similiar to Akamaru soil, but Aha soil occurs on higher, poorly drained margins of the low-lying flood plains. Surface runoff is slow to medium, and the water table averages 2' - 5' below the soil surface. During harvest (July-November) and winter the water table may fall as low as five to eight feet. Aha soil ranges from three feet to bedrock (on colluvial terraces) to 10 feet in larger flood plains and costal flats.

5. SOIL AMENDMENTS FOR PLANTING

Soil analysis by the Okinawa Environmental Research Laboratory was conducted at five locations at Camp Schwab (April 1985). The pH ranged from 7.9-8.3, available phosphorous was under .01mg/100g dry soil, and exchangeable potassium ranged from .06-.10mg/100g dry soil was sand between 2.0-0.1mm particle diameter and 40% was clay with a particle diametes below .01 mm. Planting at Camp Hansen requires additional soil amendments as per Table J-1.

REQUIRED SOIL NUTRIENT SUPPLEMENTS

	Soi1	Organic Soil conditioner	Fertilizer N: P: K (12: 6: 6)
Tree	1 m ³	80kg/ m ³	500g/ each
Shrub	1 m ³	80kg/ m ³	50g/ each



Camp Schwab Reservoir

E. HYDROLOGY

As shown by Plate J-5, the Henoko Bushi-gawa flows through Camp Schwab and is dammed to form the Camp Schwab Reservoir. It drains an area of 12.2 square miles, and surface drainage occurs along fault lines. The river bed is underlain by Paleozoic sandstone and phylitte (Kayo Formation). To the south and west, the Henoko-gawa (Henoko River) cuts a steep-sloped path through sandstone and phylitte in the Schwab Training Area, emptying into a tidal flat south of the Camp Schwab cantonment area. Ground water maps for Camp Schwab and Henoko are illustrated by Plates J-6 and J-7.

F. VEGETATION

Camp Schwab is located in the northern Okinawan subregion of the evergreen broad-leaved forest zone, characterized by Psychotriocastanopsion sieboldii associations. The surrounding area includes Costonopis cuspidata forest and Pinus lutchuensis substitutional communities. Areas of natural vegetation and rare species are shown by Plate J-8. A list of major species is presented as Appendix J-1.

1. BEETLE ERADICATION PROGRAM

The pine bark beetle (Monochamus alternatus Hope), carrier of the pine bark nematode (Bursaphil enchus lignicolus) was accidently introduced to Okinawa in a shipment of pine

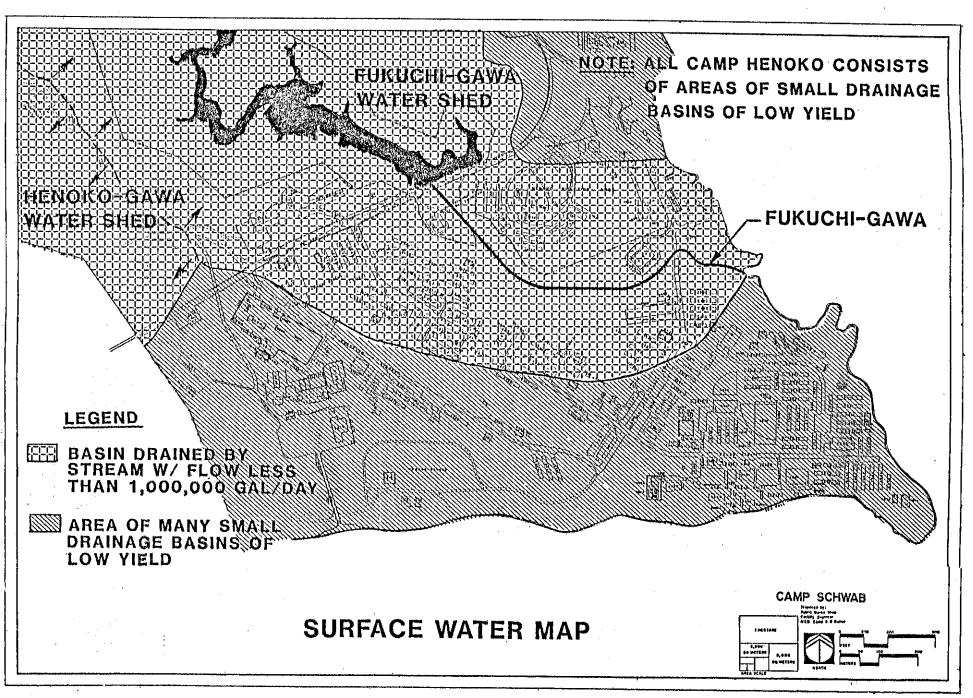


PLATE J-5

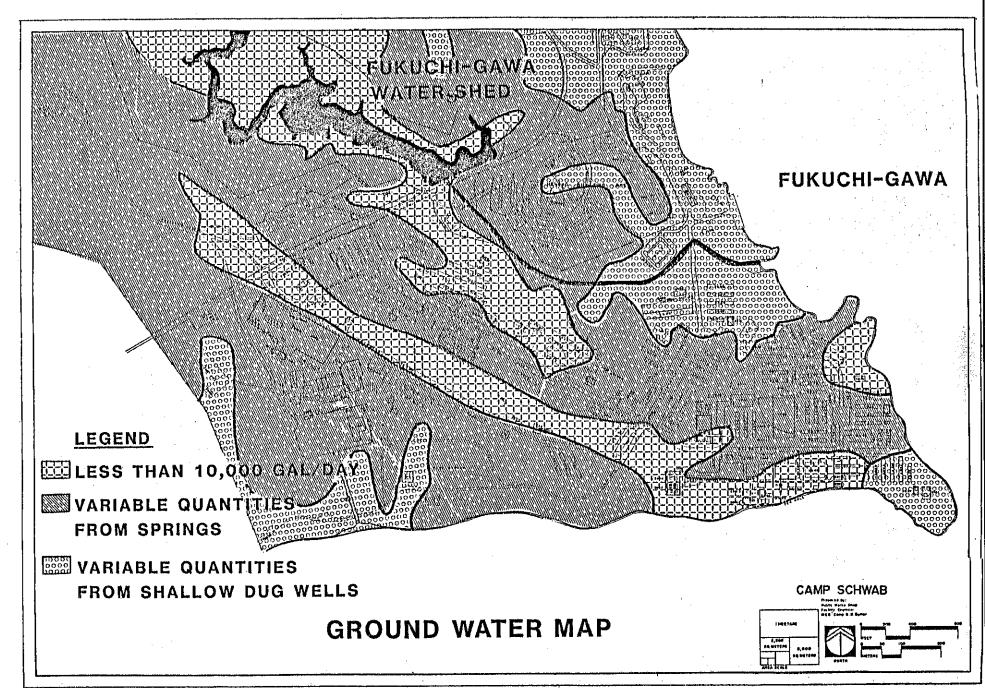
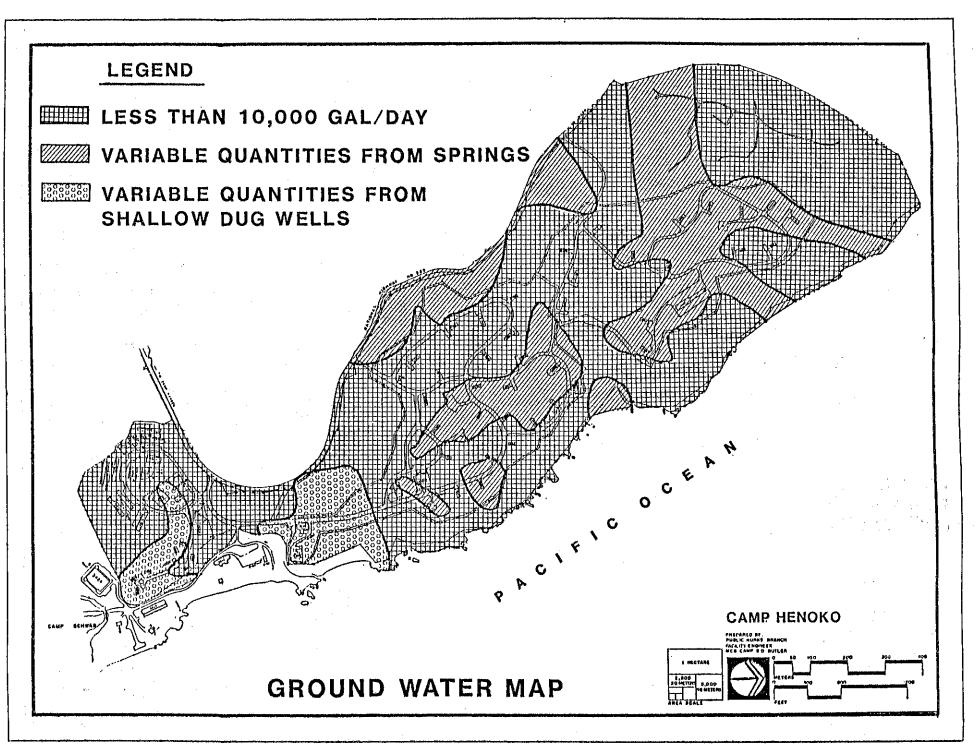


PLATE J-6



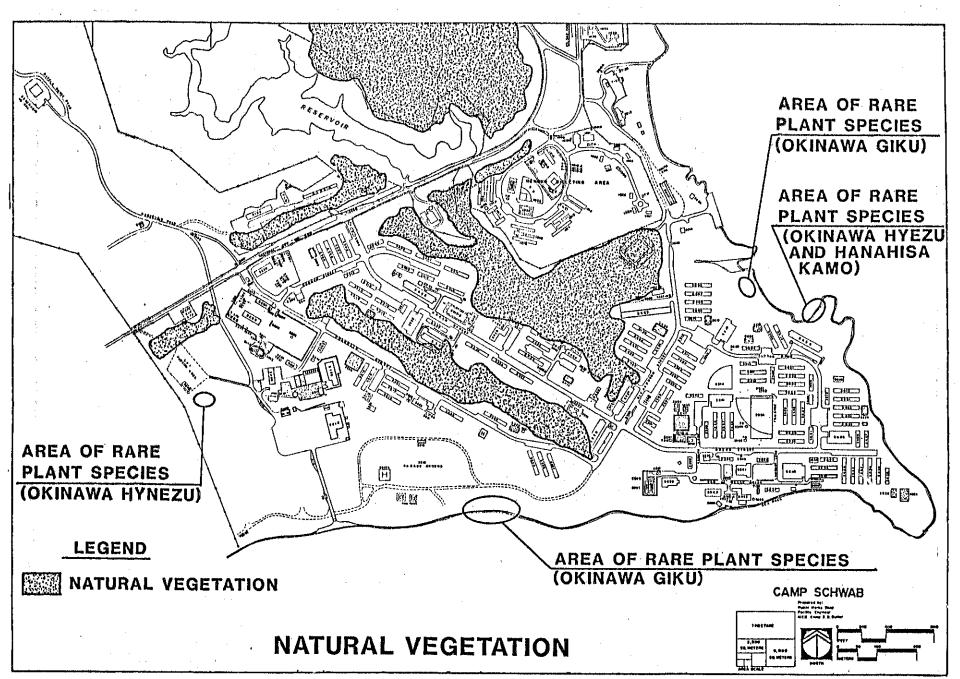
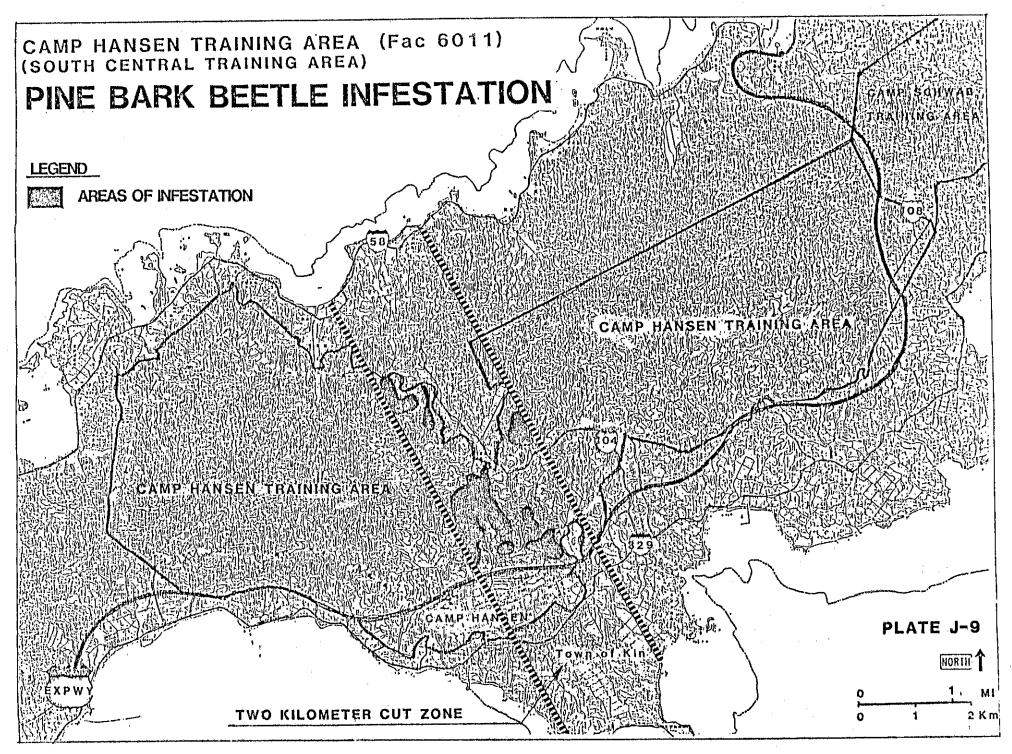
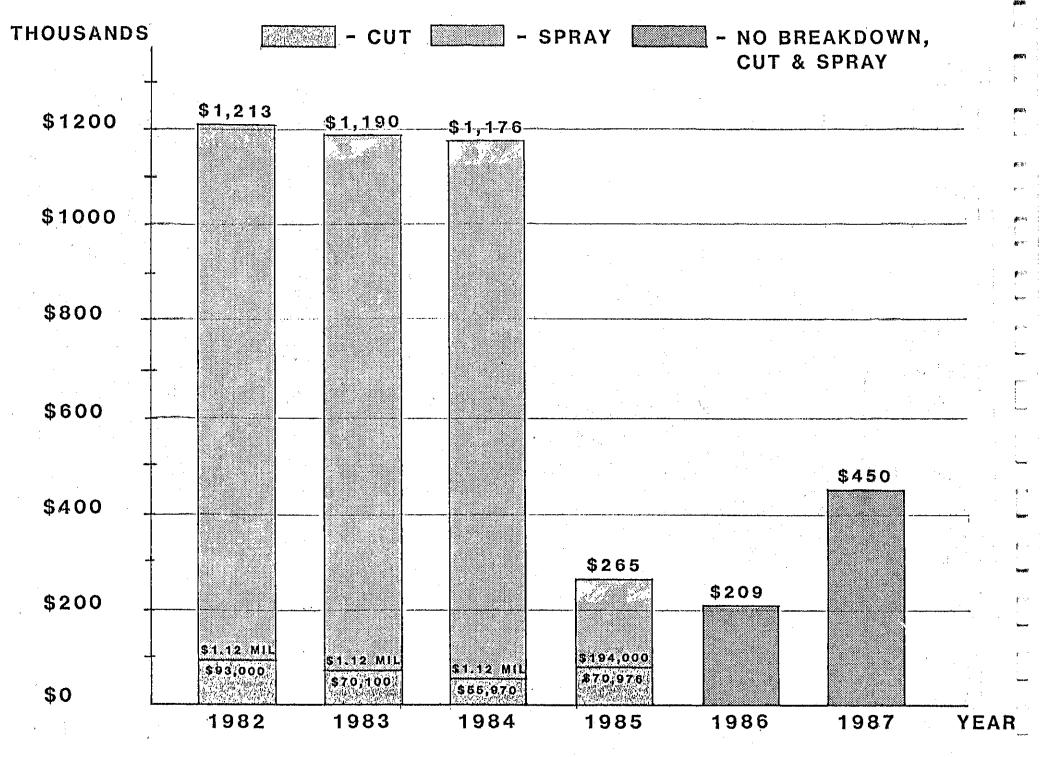
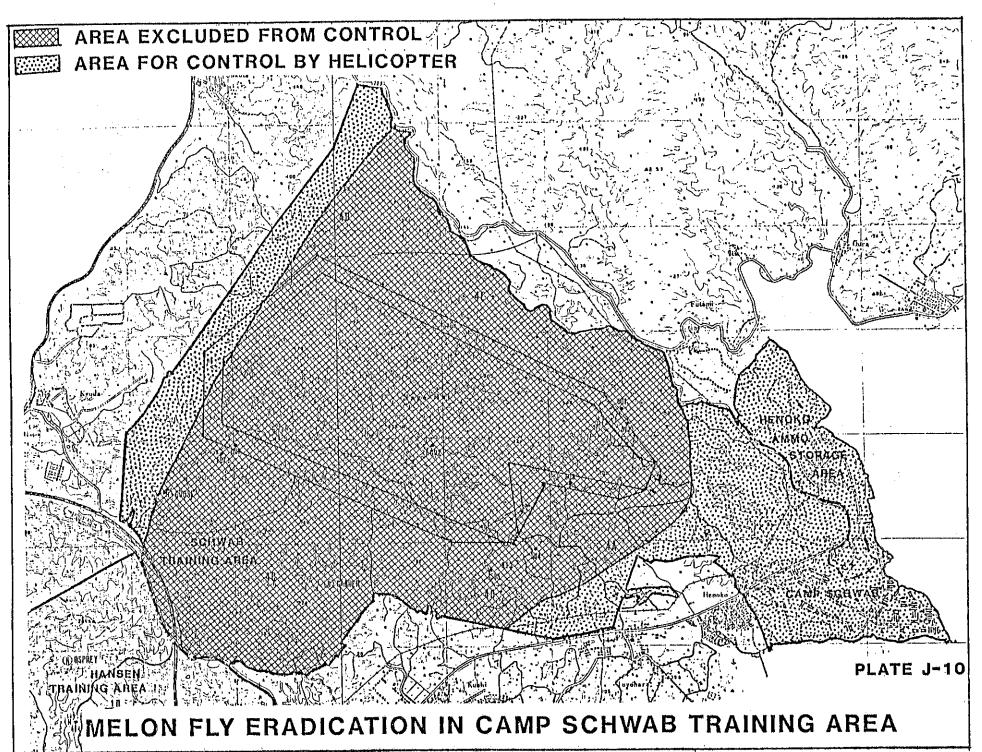


PLATE J-8





PINE BARK BEETLE ERADICATION PROGRAM



lumber from mainland Japan in 1972. The adult beetle emerges April-May and deposits the nematode upon contact with the pine tree. The nematode then feeds on the tree's tissue, and during the process of reproduction kills the Ryukyu Pine (Pinus luchensic Majr), turning the evergreen needles a rust color.

The Okinawa Prefectural Government (OPG) in 1975 developed a program for cutting and burning of infested pine trees and conducting aerial sprayings to eliminate the beetle. In 1980, MCB Camp Butler cut and burned 31 trees at Camp Hansen and 30 trees at ASP#2 during the summer of 1980. An OPG survey in October 1980 still listed 518 trees at Hansen, 95 trees at Schwab, and 73 trees at ASP#2 as infected. By 1981, 44 additional trees were found to be infected at Camp Schwab and 2,500 more at Camp Hansen.

A 1982 survey identified further infestation and the OPG initiated a plan to create a barrier two kilometers wide across the island, cutting through the Camp Hansen portion of the Central Training Area, as shown by Plate J-9. All infested trees were to be cut and burned, and aerial spray applied to all standing trees.

As the Ryukyu Pine is the prefectural tree, it is culturally as well as ecologically important to Okinawa. The cost of the program to MCB Camp Butler is illustrated by Table J-2. The eventual impact on Camp Schwab, should the pine bark beetle jump across the barrier, is the

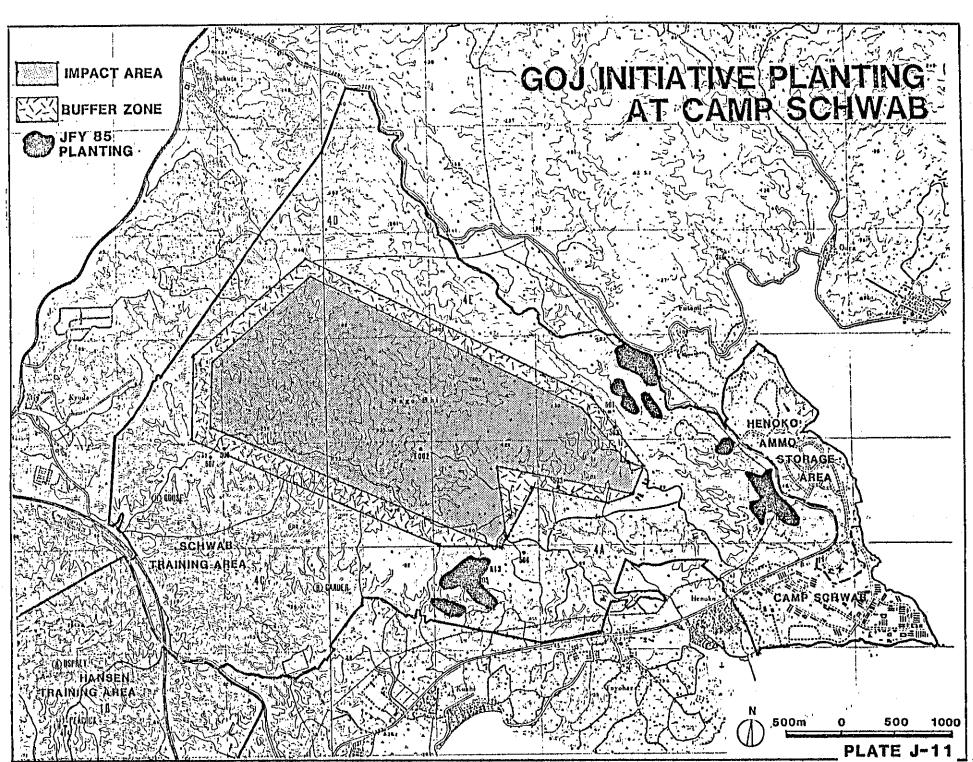
destruction of areas of natural vegetation. which play an important part in the Base Beautification Plan. Damages resulting from the infestation have been reduced in the civilian areas of Okinawa from a peak of 16,891 cubic meters in 1982 to only 8,854 cubic meters in 1984. The Prefectural goal is to reduce the damage to 3,000-4,000 cubic meters by the end of JFY 1986.

2. MELON FLY ERADICATION PROGRAM

Melon flies are pests causing great damage to agricultural crops such as melons, watermelons, cucumbers, green peppers, tomatoes, and papaya fruit. Due to the ocurrence of melon flies, the transportation of crops outside of Okinawa Prefecture is limited or restricted by Agricultural Pests Control Laws, becoming a major obstacle to the promotion of Okinawan produce. As a countermeasure, a program for eradication of the melon fly has been developed by the Prefecture: starting with the Miyako Islands (1984-1987), then the Okinawa Islands (1986-1990), and finally the Yaeyama Islands (after 1989).

The flies will be eradicated by a sterile insect technique (SIT), first by reducing the population density by the use of attractant insecticides and then by the release of mass numbers of sterilized insects.

Camp Schwab is scheduled for operations starting March 1987, as shown by Plate J-10.



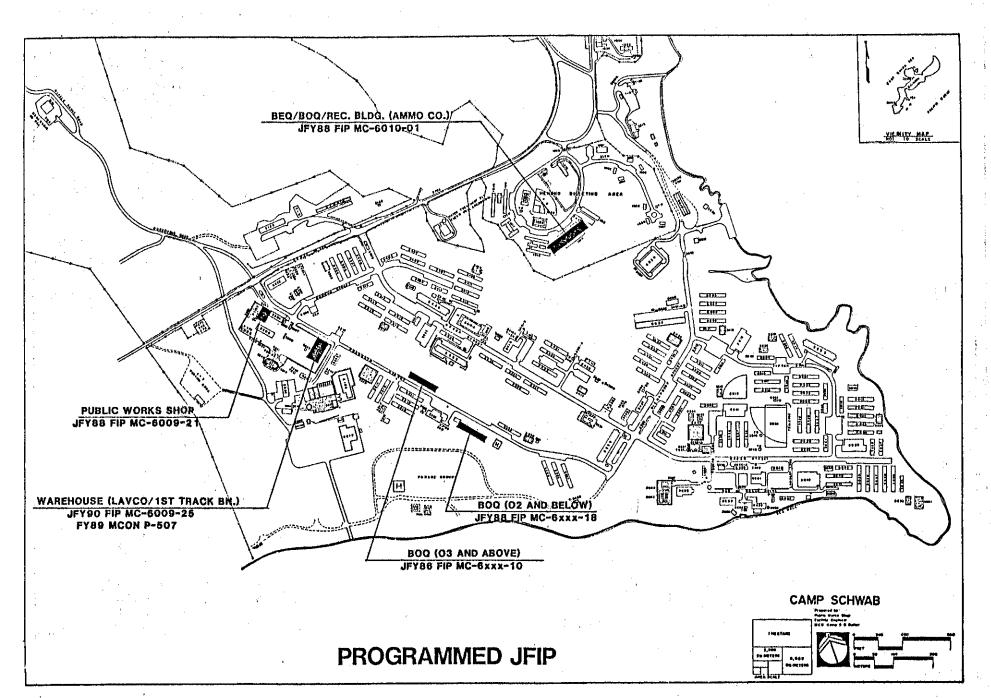
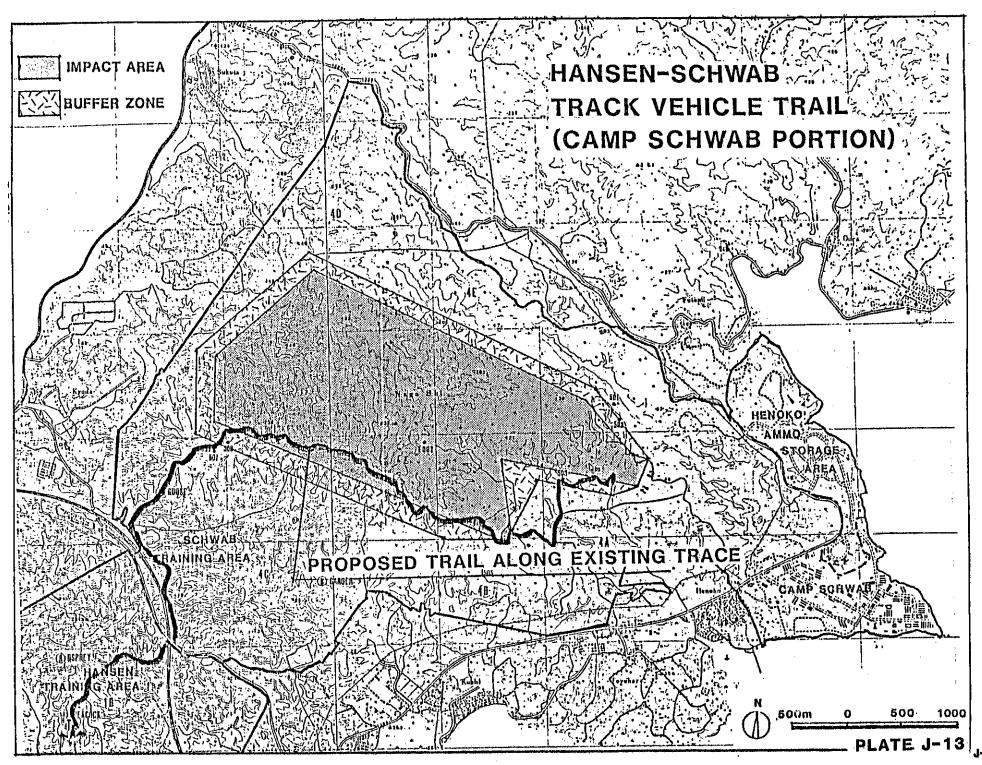


PLATE J-12



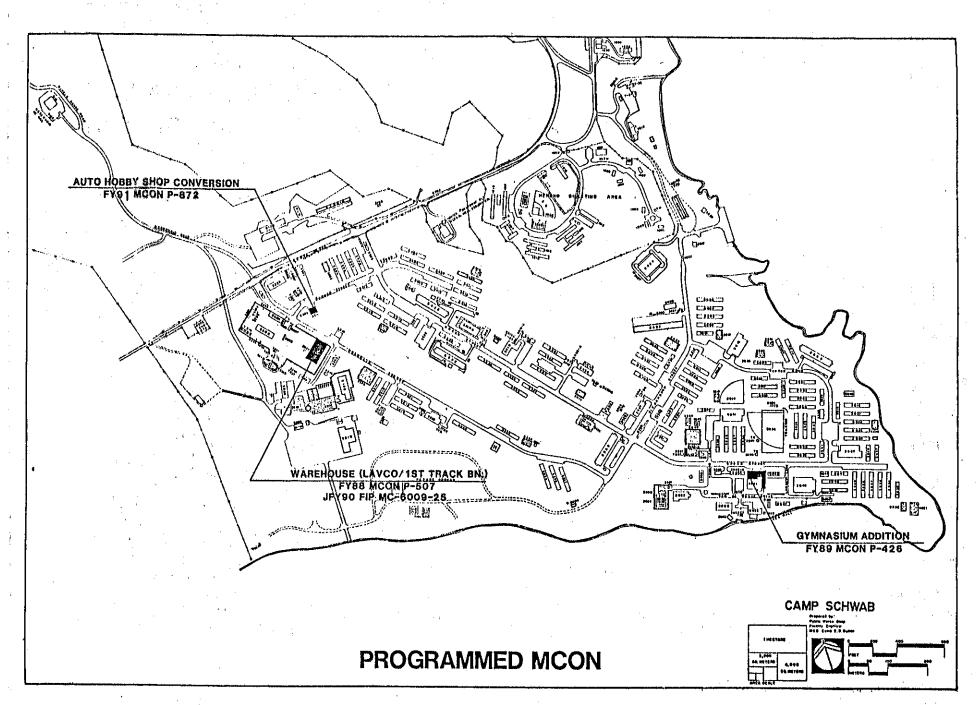


PLATE J-14

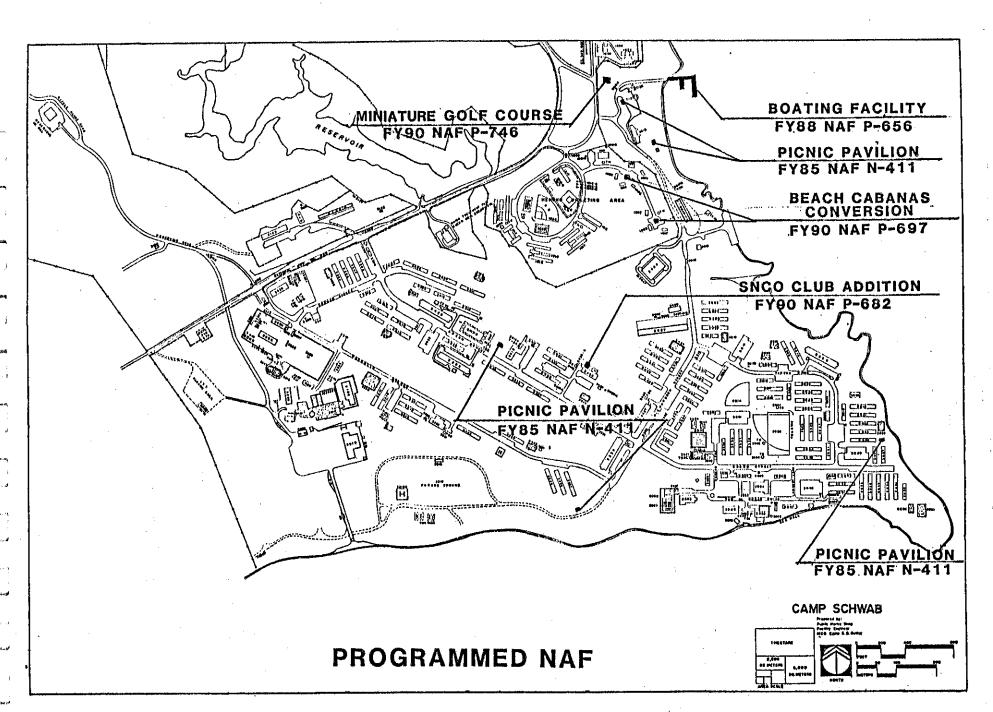
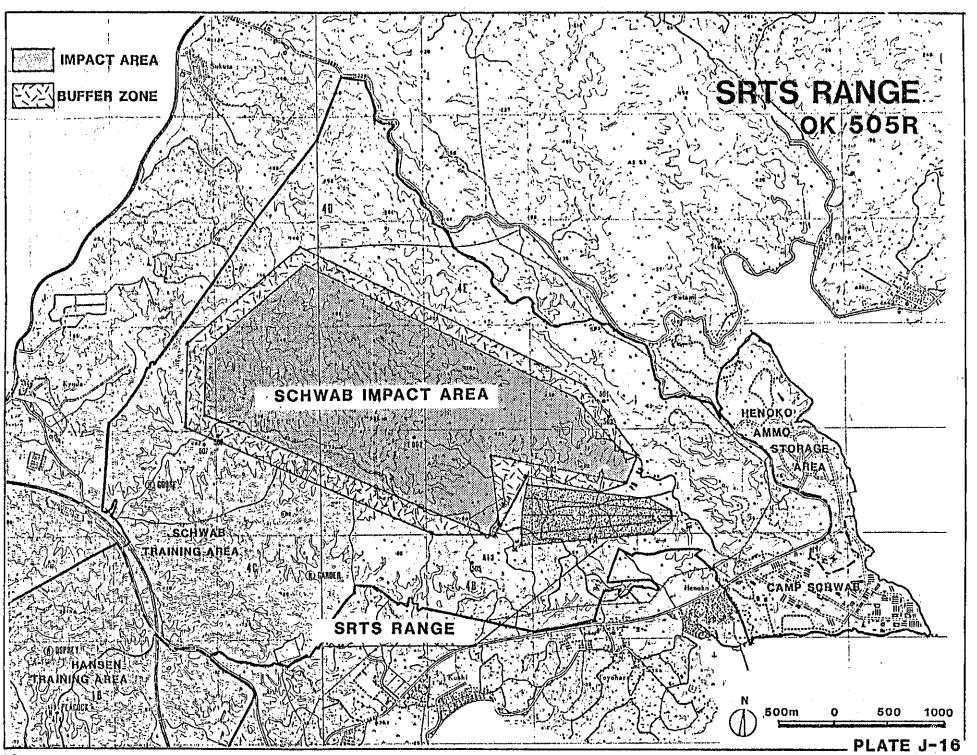


PLATE J-15



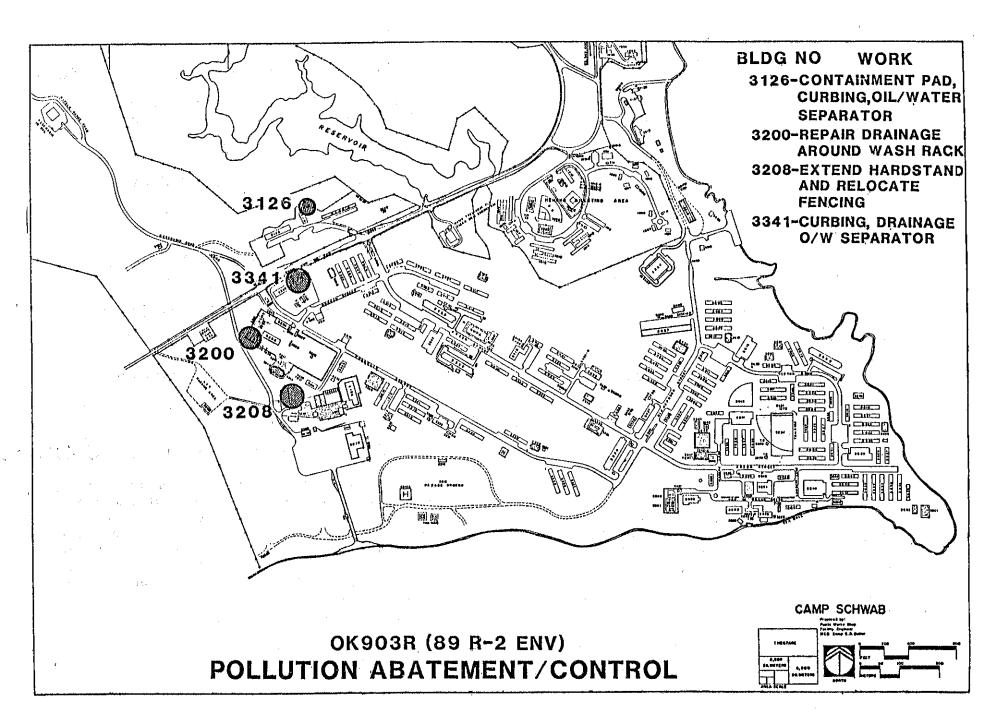


PLATE J-17

3. GOJ PLANTING

Additional planting by the GOJ as a conservation measure is illustrated by Plate J-11.

6. DEVELOPMENT

Construction projects for Camp Schwab and Henoko are categorized under the following programs:

A. JFIP PROGRAM (PLATE J-12)

MC-6XXX-10	BOQ (0-3 and above
MC-6XXX-18	BOQ (0-2 and below
MC-6010-01	BEQ/BOQ/Messhall
i	(Ammo Company)
MC-6009-21	Public Works Shop
MC-6009-25	Warehouse

B. GOJ - INITIATED FIP PROJECTS (PLATE J-13)

Hansen/Schwab Tracked Vehicle
Road

C. MILITARY CONSTRUCTION PROGRAM (PLATE J-14)

P-541	A/C Admin Buildings			
	(Phase One)			
P-864	BEQ/BOQ Upgrade			
P-539	A/C Unit Rotation BEQs			
P-426	Gymnasium Addition			
P-542	A/C Admin Buildings (Phase Two)			
P-872	Auto Hobby Shop Conversion			

D. DOUBLE PROGRAMMING (JFIP AND MCON)

MC-6009-25/P-547	Organic Unit Storage
MC-6009-30/P-815	Communications Maintenance
	Shop
MC-6009-26/P-377	Auto Organization Shop

E. NAF CONSTRUCTION PROGRAM (PLATE J-15)

N-411	Picnic Pavilions
N-322	EM Club Addition
P-656	Boating Facility
P-697	Beach Cabanas Conversion
P-746	Minature Golf Course

F. MINOR CONSTRUCTION PROGRAM (PLATES J-16 AND J-17)

OK505R	Small Arms Remote Target
OK926R	System Armory/Supply Building
OK903R	Conversion Pollution Abatement/Control

7. ENVIRONMENTAL POLLUTION CONTROL

MCB Camp S.D. Butler is required to upgrade fixed facilities operated by the Marine Corps where such upgrading is necessary to meet the Government of Japan (GOJ) Basic Law for Environmental Pollution Control. Planning proposals include consideration that would minimize the disruption of the environment during construction.

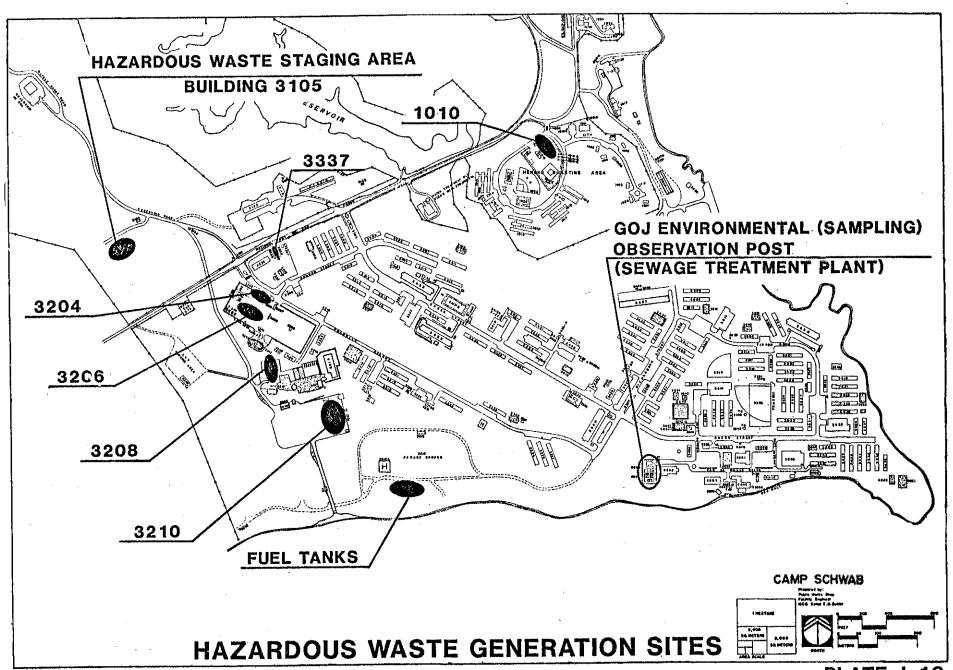


PLATE J-18

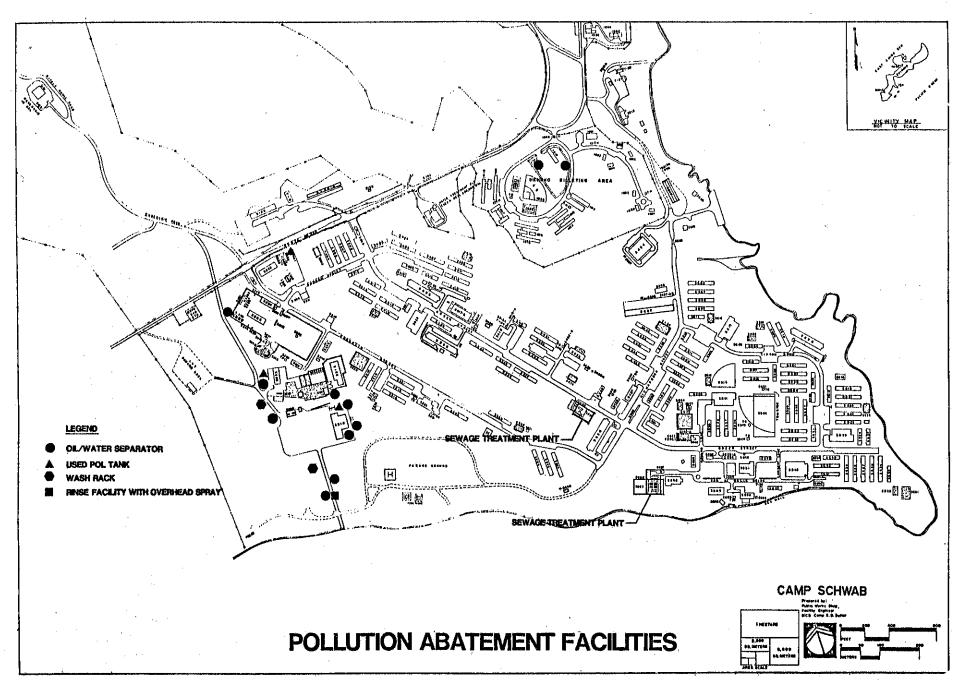
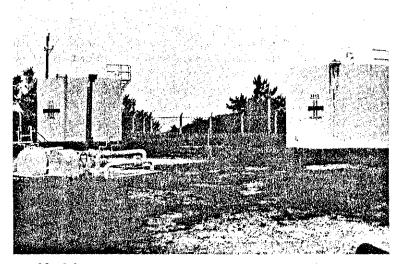
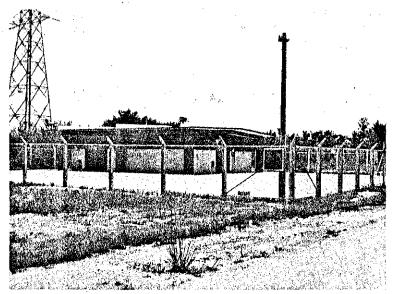


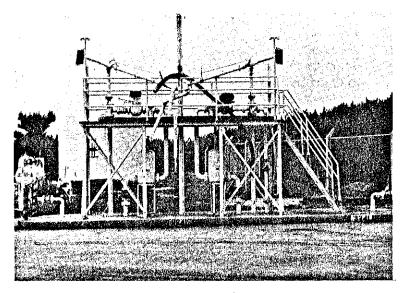
PLATE J-19



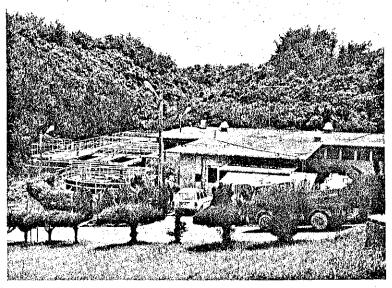
Vehicle Refuel Storage Tanks 3242 and 3243,1st Tracked Vehicle Battalion motorpool



Building 3105, Hazardous Waste Storage Facility



Structure 3241, Loading Facility



Nago City water treatment plant

In compliance with Executive Order 12088, a PEA is required to ensure that construction and operation of facilities outside the United States complies with the environmental pollution control standards of general applicability of the host country. This general requirement is extended by Article III of the Status-of-Forces Agreement (SOFA) which specifies that all US facilities and areas in use by US Forces are to be operated with sue regard for public safety.

The Government of Japan (GOJ), in conjunction with the Prefectural Government, conducts annual environmental observations of selected U.S. This typically includes sewage facilities. (STP) effluent sampling. treatment plant sampling, through-camp drainage boiler-emission sampling. During FY-87, sampling included the effluent from the Sewage Treatment Plant (Bldgs 3660/3661) as well as offshore (coastal zone) monitoring to test environmental compliance.

Relative to protection of the environment and conservation of resources, the small sewage treatment plant (Bldgs 3334/3335) will soon be phased out of operation with flows diverted to the large STP. Also, during 1986 the sludge from the Camps Courtney, Hansen and Schwab. STP's was disposed of by contract rather than by incineration. This satisfied OPG concerns over metal-laden incinerator ash useage by local farmers to fertilized food-chain crops, as well as saved MCB Camp Butler over \$100,000 per year

in operation and maintenance costs.

Of particular concern is the proper handling and disposal of hazardous wastes (HW). Fortunately, the majority of HW generated by Marine Corps units on Okinawa are from vehicle and other equipment maintenance operations, for example, used solvents, contaminated MOGAS and DIESEL, battery acid, etc. Plate J-17 shows the point of generation.

W(1)

g-10

p. to

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Plate J-17, which depicts all Hazardous Waste Sites. includes recently Generating Staging constructed Hazardous Waste (HW) Facility. This facility will facilitate the turn-in of HW. The facility will be operated by Base Environmental Personnel, who will accept HW from units for ultimate transfer to the DRMO-Okinawa located at Camp Kinser. alternative the DRMO could accept accountability (with in-place custody) and contract to sell or dispose of the HW while held at the staging facility.

Finally, Camp Schwab participates in the Base Qualifying Recycling Program (QRP), which generate funds for MWR and other selected requirements. The Camp Schwab Rifle and Pistol Ranges generate brass which undergoes demilitarization through a popping furnace prior to turn-in to DRMO. Also, scrap metal from abandoned POV's, used oil/contaminated fuels, and aluminium cans from clubs activities and recycled under the QRP program to generate MWR

funds and to conserve resources and control pollution.

In light of the requirements, existing facilities with routine operations generating significant potential for adverse effect to the environment are monitored by the Base Environmental Engineer, and are shown by Plate J-17.

8. IMPACTS ON THE ENVIRONMENT

A. NATIONAL AND INTERNATIONAL ENVIRONMENT

The Master Plan will have impact on the international environment as Camp Schwab and Henoko is located in Okinawa Prefecture, Japan.

B. PRIMARY IMPACTS

1. ECONOMIC

. . .

The economy will improve slightly when US dollars are provided for some facilities, as well as GOJ funds for JFIP construction. Employment for the local population will assist the economy.

2. WATER

The Camp is already operating at full strength with no major change in population foreseen. The existing system is adequate for present and future requirements.

3. SEWAGE

The Camp is already operating at full strength with no major changes in population foreseen. The existing system is adequate for present and future requirements.

4. SOLID WASTE

Minimal increase in solid waste is expected. Solid waste disposal throughout Okinawa is by sanitary landfill. Maintenance service contracts for solid waste disposal are handled by the Facilities Engineer, MCB Camp Butler.

5. ENERGY

With further improvements and expansion of existing facilities, there will be an increase in the consumption of electrical power. However, MCB Camp Butler has implemented energy conservation practices to minimize the total consumption. Energy consumption features will be incorporated in the design and construction of new facilities to conserve energy.

6. TRANSPORTATION

Minimal change is foreseen.

7. AESTHETICS

Camp Schwab has been enhanced aesthetically by the MCB Camp Butler Beautification Plan, which developed guidelines for exterior architecture at all Marine Corps installations on Okinawa. Exterior painting of all buildings has been color-coordinated, and landscaping projects have been developed and implemented. Dump and Borrow sites used for JFIP construction projects are required to be reclaimed using natural plant associations typical of the area, and are reviewed for adequacy by the Public Works Branch, Facilities Engineer Division, MCB Camp Butler.

8. FLORA AND FAUNA

Some removal of natural vegetation is unavoidable due to the intense urbanization of the Camp. While no protected species are known to inhabit Camp Schwab, several plants considered "rare" by local botanists are depicted on Plate J-8 and listed in Appendix J-1.

9. CONSTRUCTION

Temporary noise, dust, erosion, and transportation problems are expected. These impacts will occur only during the construction of the projects.

10. HISTORIC SITES

Several tombs are located west of Camp Schwab.

Okinawan culture involves ancestor worship and the tombs often contain the ashes of ancestors. To many Okinawans the family tomb is more important than their home because it will become their permanent residence after death. Shell Mounds indicate previous settlement, usually of pre-historic Jomon and Yayoi time periods, as evidenced by broken shards, other artifacts, and shellfish. Without detailed discarded occasioned archeological excavation. by investigation or construction activity, it is impossible to tell the significance individual Shell Mounds.

9. ALTERNATIVES TO THE PLAN

A. PROPOSED DEVELOPMENT

Implementation of the Master Plan offers the advantage of minimizing adverse environmental impacts associated with construction and urbanization.

B. NO ACTION

If no changes are made to the Camp, the installation would be severly limited to its present state of development, requiring the continued use of many substandard facilities. This would severely hinder the Camp activities in performing assigned missions and would cause a deterioration of morale due to substandard living conditions.

C. ALTERNATIVE LOCATIONS

Alternative sites on other military controlled lands were evaluated during the planning process. Over a period of two years, the Public Works Branch at MCB Camp Butler published a family of draft Master Plans which interlocked all facilities requirements for MCB Camp Butler. Where reassignment of proposed projects to a different installation enhanced mission requirements, reduced adverse environmental impact, or improved the overall holism of the planning process, such reassignments were made during the two-year evaluation.

The Final Camp Schwab and Henoko Master Plan represents an important milestone in the planning of MCB Camp Butler. However, it will be continuously updated to insure that alternative solutions are evaluated and incorporated where they represent improved optimization of the holistic Master Plan for the Marine Corps Base.

D. STAGED IMPLEMENTATION

This alternative is similar to the "Proposed Development" alternative, as the planned projects recommended by this Master Plan will be implemented on an individual basis. In fact, the Master Plan considered construction sequencing and the probability of construction as two important factors in developing a realistic Master Plan.

10. UNAVOIDABLE EFFECTS

No major adverse environmental effects are foreseeable which are unavoidable should the Master Plan be implemented.

11. RELATIONSHIP TO LAND USE PLANS

The following are relationships of the proposed action to Land Use Plans, policies, and controls for the affected area:

A. FEDERAL

There is no specific approved Federal Land Use Plan for MCB Camp Butler, other than the land use categories identified for use in the Master Plan. These will become an approved Federal Land Use Plan when the Master Plan is approved by the Commandant of the Marine Corps.

B. GOVERNMENT OF JAPAN AND LOCAL PLANS

In general, the GOJ and local government land use policies do not designate specific land uses for military controlled real estate. One exception is the GOJ's plan to retain the mountainous region on northern Okinawa in its natural state for potable and industrial water development. The Marine Corps Base Master Plans recognize this requirement and recommend that only compatible uses be permitted in the restricted areas. In Okinawa, water rationing was enforced as many as 159 days in JFY1981 and

154 days in JFY1982. Over one million people live on Okinawa, and over 530,000 cubic meters a day were required by 1983 for industrial and domestic use, with an expected increase to 730,000 cubic meters a day by 1991. The stable water supply was estimated at 448,000 cubic meters daily in 1983 with the completion of the Aha and Fun Dams.

Additionally the Henoko Dam in Kunegami is under construction, as illustrated by Plate J-20.

The Master Plan does not propose any major change in land use that would conflict with existing civilian land uses.

12. COMMITMENTS OF RESOURCES

The proposed Master Plan does involve some irreversible and irretrievable commitments of resources should the Plan be implemented. Labor, materials, and funds used for the construction of the projects concerned would be irretrievably lost. Proposed structures are relatively simple and the land areas could be recovered and restored at any time by the removal of the structures and reclaiming of the project site through planting of vegetation similar to that found on-site, or through natural succession.

13. CONSIDERATIONS

Several considerations offset the stated adverse

environmental effects on the proposed Master Plan. The adoption and implementation of the Master Plan would result in more effective operations, conservation of resources, and preservation of the environment-all of which insure the readiness of military forces in Okinawa. These benefits more than offset the minor adverse environmental impacts generated by the proposed plan.

14. SUMMARY OF IMPACTS

A. ECONOMIC

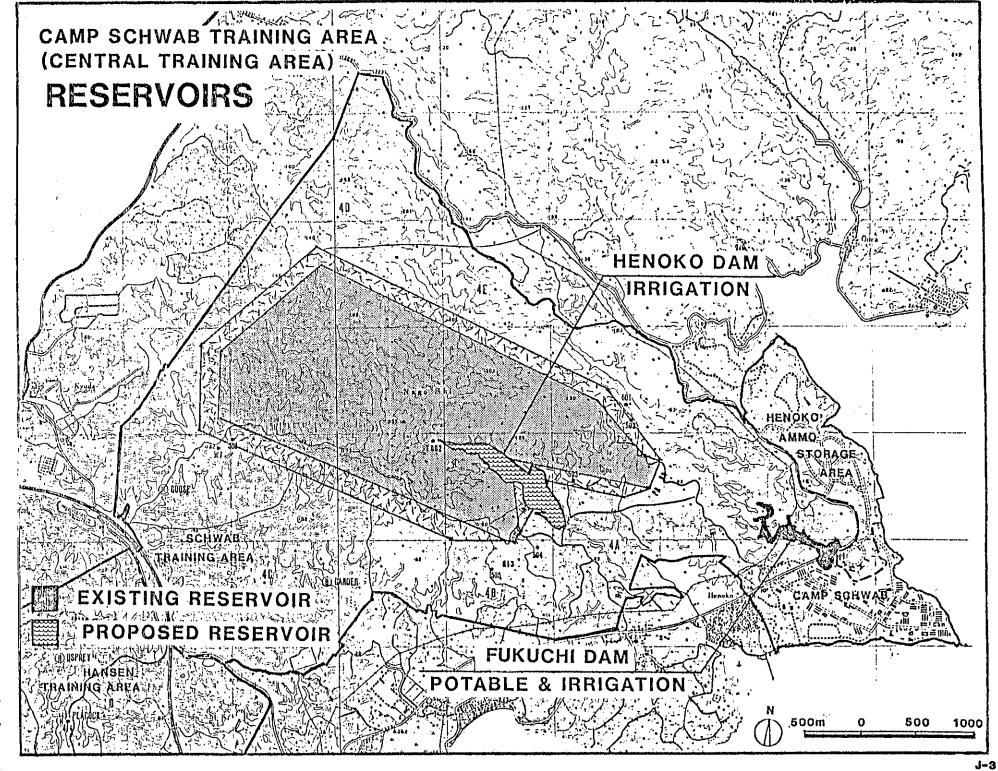
The local economy would temporarily improve as US or GOJ monies are expended to construct new facilities. Long-range, the eventual return of Camp Courtney real estate and facilities to the GOJ and the local governments will provide useable and developable lands to the local population.

B. WATER

Overall water consumption is not expected to increase appreciably.

C. SEWAGE

Overall sewage flow is not expected to increase.



D. SOLID WASTE

There will be no appreciable increase in solid waste generation.

E. ENERGY

Increased consumption of electricity is expected due to improvements to end expansion of existing facilities and the construction of new facilities.

F. TRANSPORTATION

Minimal change.

G. AESTHETIC

Minimal change.

H. FLORA AND FAUNA

Minimal impact.

I. CONSTRUCTION

Temporary noise, dust, drainage, and transportation impacts would occur during construction.

J. HISTORIC SITES

Know historic and cultural sites at Camp Schwab and Henoko have been indentified and will be

protected.

K. ACTIONS PROPOSED

Actions proposed in this Master Plan are non-controversial, will not significantly adversely affect the environment, and therefore no further documentation is warrante at this time. It is acknowledged that site specific reviews of proposed actions are accomplished locally and approved through the mechanisms of the Environmental Enhancement/Impact Review Board in accordance with BO 6280.3A.

APPENDIX J-1 INVENTORY OF PLANT SPECIES

An illustrated Inventory of Plant Species at Camp Schwab and Henoko is found as Appendix L-3 of the Camp Schwab Master Plan published by the Public Works Branch, Facilities Engineer Division, Marine Corps Base Camp S. D. Butler. The following plants are included:

- 1. CANARY ISLANDS DATE PALM Phoenix canariensis Chaubaud
- 2. DWARF DATE PALM
 Phoenix roebelinii O. Brien
- 3. SPINDLE PALM

 Macarena Vershchaffeltii4. CHINESE FAN PALM
 Livistona chinensis R. Br.
- 4. PETTICOAT PALM
 Washington filifena H. Wendl
- 5. SMALL SAGO PALM Cycas revoluta Thumb
- 6. RYUKYU PINE Pinue Ryukyu Mayr.
- 7. INDIAN LAUREL Ficus retusa L.
- 8. INDIAN RUBBER TREE Ficus elastica

- 9. SHIMAGUWA
 Norus australis poir
- 10. CORAL TREE
 Erythrina variegata var. orientalis merril
- 11. SOSHIJU
 Acacia confusa Merr,
- 12. COAST CASUARINA Casuarina stricta Ait
- 13. CHINESE JUNIPER
 Juniperus Chinese L. cu. Kaizuka
- 14. OLEANDER
 Nerium oleander and Nerium indicum

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APPENDIX L-1

FACILITIES REQUIREMENTS SUMMARY PLAN

This appendix summarizes basic facilities requirements (BFR) for Camps Schwab and Henoko by category code, and includes a list of assets, by tenancy, and proposed projects to resolve known deficiencies.

The importance of this appendix, however bulky, is that it creates Facilities Planning Documents similiar to those found in the Navy Shore Facilities Planning System. FPDs were not used by the U.S. Marine Corps during the preparation of this Master Plan. This appendix enables the facilities manager and facilities planner formatted access to each category code required at Camps Schwab and Henoko and has proved highly successfull since its introduction as a planning tool. FPDs have since been incorporated into USMC facilities planning as this Master Plan goes to press, and will replace this Appendix when made available.

Figure L-1 illustrates the use of this appendix.

CATEGORY CODE: 111-20
HELICOPTER LANDING PADS

2,200 SY IC 01

DESCRIPTION: Helicopter landing pads are required for emergencies, VIP passenger service, and landing and offloading practice.

ASSETS:

SUMMARY:

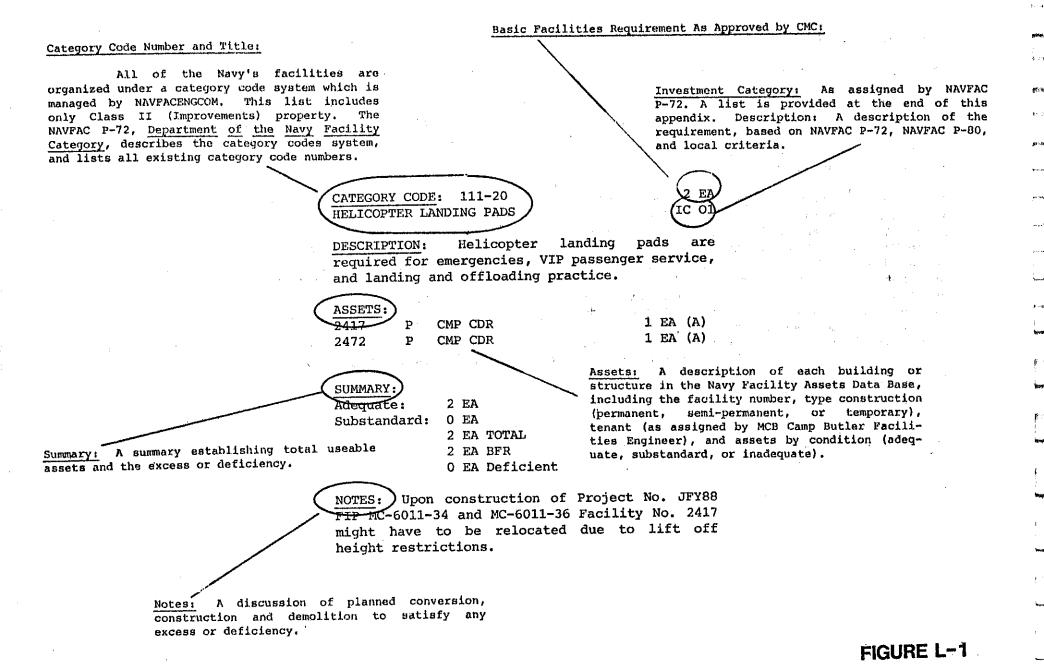
Adequate: 0 SY Substandard: 0 SY

O SY TOTAL

2,200 SY BFR

2,200 SY Deficient

NOTES: Two helicopter pads not shown in inventory are located at Camp Schwab. One is to be deleted from use and BFR to be revised.



CAMP SCHWAB BFRL

CATEGORY CODE: 123-15 25 SF FILLING STATION BUILDING IC 04

DESCRIPTION: This facility provides minimum space for Administrative functions and weather shelter in support of a fuel dispensing facility.

ASSETS:

3250 P MCB DSSC 25 SF (A)

SUMMARY:

Adequate: 25 SF Substandard: 0 SF

25 SF TOTAL 25 SF BFR

O SF DEFICIENT

NOTES:

CATEGORY CODE: 123-10 5 OL FILLING STATION IC 04

DESCRIPTION: A fueling facility for official vehicles on a Marine Corps installation. A filling station will include fuel dispensary pumps, access roads, tanks, area lighting, and shelter and fire protection.

ASSETS:

3205	P	TRK	VEH BN	4 OL (2	A)
3209	P	1st	TRK BN	2 OL (2	A)
3343	P	MCB	DSSC	4 OL (2	A)

SUMMARY:

Adequate: 10 OL Substandard: 0 OL

> 10 OL TOTAL 5 OL BFR 5 OL EXCESS

NOTES: Retain excess for contingency.

CATEGORY CODE: 124-50 58,000 GA
VEHICLE READY FUEL STORAGE IC 04

DESCRIPTION: For every 25 operating vehicles at overseas bases, a 30-day storage capacity of 1,875 gallons is required.

ASSETS:

3242 P TRK VEH BN 42,000 GA (A) 3243 P TRK VEH BN 42,000 GA (A)

SUMMARY:

Adequate: 84,000 GA Substandard: 0 GA

> 84,000 GA TOTAL 58,000 GA BFR 36,000 GA EXCESS

NOTES: BFR to be developed for 84,000 GA.

CATEGORY CODE: 125-16 400 GM

POL PUMP STATION

IC 04

DESCRIPTION: Miscellaneous pump and pipeline facilities are required for storing and issuing of gasoline and diesel fuel.

ASSETS: 3241A P MCB FE 400 GM (A) SUMMARY: Adequate: 400 GM Substandard: 0 GM 400 GM TOTAL 400 GM BFR O GM DEFICIENT NOTES: CATEGORY CODE: 126-30 TANK TRUCK/CAR LOAD FACILITY Tank truck loading facility is required, capable of dispensing gasoline and diesel fuel to fuel servicing trucks. ASSETS: 3241 p TRK VEH BN 2 OL (A) 3247 TRK VEH BN 2 OL (A) SUMMARY: Adequate: 4 OL Substandard: 0 OL 4 OL TOTAL 4 OL BFR

DESCRIPTION: A Communications Security (COMSEC) Equipment space is required for the installation of new COMSEC equipment and Position Location Reporting Systems for use by maneuver and support battalions at Camp Scwhab.

ASSETS: 3319 P TRK VEH BN 70 SF (A) 3511 P 4TH MAR 175 SF (A) 3525 P 204 SF (A) 3643 P RECON 150 SF (A)

SUMMARY: Adequate: 599 SF Substandard: 0 SF 599 SF TOTAL

4 OL

IC

651 SF BFR 52 SF Deficient

NOTES: Negligible deficiency.

CATEGORY CODE: 131-40 2,870 SF TELEPHONE EXCHANGE BUILDING IC 02

DESCRIPTION: The size of the Telephone Exchange Building is a function of the 1,600 line capacity of the telephone system at Camp Schwab.

NOTES:

CATEGORY CODE: 131-15 651 SF COMMUNICATIONS SECURITY (COMSEC) IC 02

O OL DEFICIENT

ASSETS:

3658 P US ARMY 209 SF (A) 3658 P MCB CEO 2,761 SF (A)

SUMMARY:

Adequate: 2,761 SF Substandard: 0 SF

Substandard: 0 SF 2,761 SF TOTAL 2,870 SF BFR

109 SF Deficient

NOTES: Construction of JFY 84 FIP MC-6009-18 impending. Building 3658 (209 SF) outgranted to USAGO.

CATEGORY CODE: 131-60 464 SF MILITARY AFFILIATE RADIO STATION IC 02

DESCRIPTION: The MARS is part of the Marine Corps telecommunications complex.

ASSETS:

3439 P MCB CE 464 SF (A)

SUMMARY:

Adequate: 464 SF Substandard: 0 SF

> 464 SF TOTAL 464 SF BFR

> > 0 SF Deficient

NOTES: This category code is maintained for inventory purposes.

CATEGORY CODE 132-10

1 EA

MARS ANTENNA

DESCRIPTION: This facility services the MARS station, category code 131-60.

ASSETS:

3439A S MCB CEO

1 EA (A)

SUMMARY:

Adequate: 1 EA Substandard: 0 EA

> 1 EA TOTAL 1 EA BFR

O EA DEFICIENT

NOTES: This code is maintained for inventory purposes.

CATEGORY CODE: 143-45

10,243 SF IC 04

ARMORY

DESCRIPTION: Facilities are required to provide space for humidity controlled storage and routine maintenance of small arms and emergency gear, which will be used for emergencies and training of military personnel in the handling of station emergencies, civil disorders, and area disasters.

ASSETS:				
3311	P	TRK VEH BN	3,068 S	F (A)
3424	P	4TH MAR	1,684 S	F (A)
3437	P	4TH MAR	380 S	F (A)
3516	P	4TH MAR	4,090 S	F (A)
3526	P	4TH MAR	2,340 S	F (A)
3627	P	RECON	1,170 S	F (A)

SUMMARY:

Adequate: 12,732 SF Substandard: 0 SF

> 12,732 SF TOTAL 10,243 SF BFR 2,489 SF EXCESS

NOTES: BFRL to be revised to include LAV.

Convert 3311 to CC 441-12 after

completion of FY89 MCON P-547/JFY90

MC-6009-25.

CATEGORY CODE: 143-78	353	SI
FLAMMABLE STOREHOUSE	 IC	

DESCRIPTION: This facility is required in support of maintenance operations of maneuver and support battalions at Camp Hansen. Items typically stored in these facilities are POL products, paints and solvents.

ASSETS:			
3239	P	TRK VEH BN	665 SF (A)
3244	P	TRK VEH BN	495 SF (A)
3305	P	TRK VEH BN	495 SF (A)
3445	P	4TH MAR	189 SF (A)
3615A	P	MCB SP SVC	64 SF (A)
3617A	P	MCB FE	64 SF (A)

SUMMARY:

Adequate: 481 SF Substandard: 0 SF

> 481 SF TOTAL 353 SF BFR 128 SF EXCESS

NOTES:

CATEGORY CODE:171-10

750 SF

ACADEMIC INSTRUCTION BUILDING

IC 05

DESCRIPTION: This facility provides academic instruction classrooms for Marine Corps personnel, including the 3RD MARDIV Division School.

ASSETS:

3110 P MCB RANGE

340 SF (A)

3504 P 4TH MAR

7,770 SF (A)

SUMMARY:

Adequate:

6,760 SF

Substandard:

0 SF

6,760 SF TOTAL

6,750 SF BFR

10 SF EXCESS

NOTES:

CATEGORY CODE: 171-20

SF

APPLIED INSTRUCTION BUILDING

IC 05

DESCRIPTION: Applied instruction building is required to train personnel in the use of technical equipment.

ASSETS:

SUMMARY:

Adequate:

0 SF

Substandard:

0 SF

O SF TOTAL

SF BFR

SF EXCESS

NOTES: BFRL to be developed.

Construct 283SF Tear Gas Chamber, FY84

R1.

CATEGORY CODE: 154-30

534 LF

SEAWALLS

IC

DESCRIPTION: A seawall is required for the purpose of protecting and stabilizing the shore against erosion resulting from wave action.

ASSETS:

P MCB MTN

534 LF (A)

SUMMARY:

Adequate:

Substandard:

534 LF 0 LF

534 LF TOTAL

534 LF BFR

O LF DEFICIENT

NOTES:

CATEGORY CODE: 211-75
PARACHUTE/SURVIVAL SHOP

4,000 SF IC

DESCRIPTION:

A facility is required for drying, inspecting, repairing, repacking, and storing life support equipment such as parachutes, life raft/jackets, exposure suits, etc.

ASSETS:

3650 P RECON

4,000 SF (A)

SUMMARY:

Adequate:

4,000 SF

Substandard:

0 SF

4,000 SF

4,000 SF BFR

O SF DEFICIENT

NOTES:

CATEGORY CODE: 179-40

2 EA

SMALL ARMS RANGE

IC 05

DESCRIPTION: A small arms range is required for training in the use of pistols, small caliber rifles, and smallcaliber machine guns for 3,000-4,000 men.

ASSETS:

3113 P MCB RNG 3116 P MCB RNG 1 EA (S)

1 EA (A)

SUMMARY:

Adequate:

1 EA

Substandard: 1 EA 2 EA TOTAL

2 EA BFR

O EA DEFICIENT

NOTES: Construct 1 EA Small Arms Range, unprogrammed.

CATEGORY CODE: 179-50

2 EA

COMBAT TRAINING COURSE

IC 05

(F S)

\$6 (S)

DESCRIPTION: This facility provides training for personnel in operational combat skills, including an obstacle course and a combat technique course.

ASSETS:

3125 P Camp Commander 1 EA (A)

3125A S MCB OTD

1 EA (A)

SUMMARY:

Adequate: 2 EA Substandard: 0 EA

2 EA TOTAL

2 EA BFR

O EA DEFICIENT

NOTES:

CATEGORY CODE: 179-55

1 EA

COMBAT TRAINING POOL/TANK

IC 05

DESCRIPTION: This facility is required for instruction in swimming and combat survival training.

ASSETS:

3417 P MCB SP SVC

1 EA (S)

SUMMARY:

Adequate:

O EA

Substandard: 1 EA

1 EA TOTAL

1 EA BFR

O EA DEFICIENT

NOTES: Upgrade pool, FY86M2 (OK614M).

CATEGORY CODE: 179-60

1 EA

PARADE AND DRILL FIELD

IC 08

DESCRIPTION: A parade and drill field provides space for formation drills, parade and review functions, and honor ceremonies.

ASSETS:

T CAMP CDR

1 EA (A)

SUMMARY:

Adequate:

1 EA

Substandard:

0 EA

1 EA TOTAL

1 EA BFR

O EA DEFICIENT

NOTES:

CATEGORY CODE: 214-51 AUTO ORGANIZATIONAL SHOP 46,035 SF IC 08

DESCRIPTION: This facility is required to maintain organizational equipment of maneuver and support elements of the 3rd Marine Division and the 3rd FSSG.

ASSETS	:

3202	P		210 SF (A)
3206	P	TRK VEH BN	8,216 SF (A)
3207	P	TRK VEH BN	510 SF (A)
3208	P	RECON	7,228 SF (A)
3337	P	4TH MAR	
			210 SF (A)
3339	P	4TH MAR	8,252 SF (A)
3342	P	4TH MAR	579 S
	ā.		F (A)
	3206 3207 3208 3337 3339 3342	3206 P 3207 P 3208 P 3337 P	3206 P TRK VEH BN 3207 P TRK VEH BN 3208 P RECON 3337 P 4TH MAR 3339 P 4TH MAR 3342 P 4TH MAR

SUMMARY:

Adequate: 24,995 SF

Substandard: 0 SF

24,995 SF TOTAL 46,035 SF BFR

21,040

SF DEFICIENT

NOTES: Construct 6,260 SF LAV Maintenance Shop,

MCON P-523, FY85.

Construct 14,780 SF Auto Organizational Shop, unprogrammed MCON P-377.

CATEGORY CODE: 179-45
TRAINING MOCK-UPS

DESCRIPTION: Provide a rappeling tower for practice jumps. This requirement was prviously approved for 3d Recon Battalion at Onna Point. For 1st Track Vehicle Battalion, a firing bunker is required.

ASSETS:

3125 P MCB OTD 1 EA (A) 3133 P MCB MTN 1 EA (A)

SUMMARY:

Adequate: 2 EA Substandard: 0 EA

> 2 EA TOTAL 2 EA BFR

O EA DEFICIENT

NOTES: Construct Small Arms Remote Target (SART) Facility, FY85 R2

CATEGORY CODE: 214-55 9 EA
VEHICLE WASH PLATFORM IC 08

DESCRIPTION: Vehicle wash platforms with hose connections should be provided on the basis of one vehicle washing space for each 50 vehicles assigned to the motor pool.

ASSETS:						
3200	P	TRK VEH	BN	1	EA	(A)
3249	P	TRK VEH	BN	1	EA	(A)
3341	P	4TH MAR		1	EA	(A)
UNNMBRD	P			3	EA	(A)

SUMMARY:

2 EA

IC 05

Adequate: 6 EA
Substandard: 0 EA SF
6 EA TOTAL
9 EA BFR

3 EA Deficient

NOTES: BFRL to be revised to 6 EA.

CATEGORY CODE: 214-56 4 EA
VEHICLE GREASE RACK IC 08

DESCRIPTION: One grease rack (servicing two vehicles) will be provided for each 125 vehicles.

£ 375

ASSETS:

3201	P	TRK	VEH	BN	1	EA	(A)
3203	P	TRK	VEH	BN	1	EA	(A)
3338	P	4TH	MAR		1	EA	(A)

SUMMARY:

Adequate: 3 EA Substandard: 0 EA

> 3 EA TOTAL 4 EA BFR

1 EA Deficienct

NOTES: Construct 1 EA Vehicle Grease Rack, unprogrammed R-1.

CATEGORY CODE: 213-75
AMPHIBIOUS VEHICLE MAINT SHOP

19,578 SF IC O8

DESCRIPTION: An Amphibious Vehicle Maintenance Shop is required to provide work areas for performing organization maintenance functions on tracked vehicles for the Track Vehicle Battalion.

ASSETS:

3202 P TRK VEH BN 210 SF (A) 3210 P TRK VEH BN 22,370 SF (A)

SUMMARY:

Adequate: 22,370 SF Substandard: 0 SF

> 22,370 SF TOTAL 19,578 SF BFR 2.792 SF DEFICIENT

NOTES:BFR to be developed for 22,370 SF.

CATEGORY CODE: 217-10 42,076 SF ELECTRONICS/COMM MAINTENANCE SHOP IC 08

DESCRIPTION: Electronics maintenance shops provide facilities for maintenance and repair of nonairborne electronics and communications equipment.

ASSETS:			
3213	T	1ST TRK BN	13,428 SF (A)
3503	₽		6,420 SF (S)
3506	P	4TH MAR	4,090 SF (A)
3641	P	RECON	3.310 SF (A)

SUMMARY:

Adequate: 20,728 SF Substandard: 6,420 SF

> 27,148 SF TOTAL 42,076 SF BFR 14,928 SF Deficient

NOTES: Construct 14,928 SF, unprogrammed MCON P-815.
Rehab Bldg 2503, unprogrammed.

CATEGORY CODE: 219-10
PUBLIC WORKS SHOP

10,400 SF IC 08

DESCRIPTION: This shop is required to provide facilities to perform maintenance on all buildings, grounds, grounds structures, utilities plants and distribution systems, HVAC systems, internal communications and alarm systems, and roads.

ASSETS:

3123 P CAMP CDR 9,997 SF (S)

SUMMARY:

Adequate: 0 SF Substandard: 9,997 SF 9,997 SF TOTAL 10,400 SF BFR 403 SF Deficient

NOTES: Negligible deficiency.

CATEGORY CODE: 219-77
PUBLIC WORKS MAINTENANCE STORAGE

4,000 SF IC 08

DESCRIPTION: This facility is a general warehouse for the storage of items and materials required for the maintenance of station buildings and grounds. It is independent of the ready-issue storage facilities required in direct support of the public works shop.

ASSETS:

T-9 S MCB MTN

4,000 SF (A)

SUMMARY:

Adequate:

4,000 SF 0 SF

Substandard:

4,000 SF TOTAL

4,000 SF BFR

4,000 SF Deficient

NOTES:

CATEGORY CODE: 219-20 700 SF
PAVEMENT GRD EQUIPMENT SHED IC 08

DESCRIPTION: A pavement and grounds equipment shed is required to provide holding space for tractors, lawnmowers and other miscellaneouse equipment used for roads and grounds maintenance.

ASSETS:

1,000 SF (A)

3540 P CMP CDR

875 SF (A)

SUMMARY:

Adequate: 875 SF Substandard: 0 SF

875 SF TOTAL

700 SF BFR

175 SF Deficient

NOTES:

CATEGORY CODE: 219-25
PW EXP/READY ISSUE STORAGE

1,000 SF IC 08

<u>DESCRIPTION:</u> A facility is required to store ready-issue items for Public Works daily maintenance and for Public Works material that are considered critical for emergency service.

ASSETS:

T-9 S MCB MTN 1,000 (A)

SUMMARY:

Adequate: 1,000 SF Substandard: 0 SF

> 1,000 SF TOTAL 1,000 SF BFR

> > 0 SF Deficient

NOTES:

CATEGORY CODE: 421-35 144 SF
READY MAGAZINE IC 12

DESCRIPTION: Ready magazines are required at the Rifle Range, Pistol Range, and the Combat Technique Range.

ASSETS:

0: 4

SUMMARY:

Adequate: 0 SF Substandard: 0

SF

0 SF TOTAL

144 SF BFR

144 SF Deficient

NOTES: Construct 144 SF Ready Magazine, unprogrammed R-1.

CATEGORY CODE: 441-12 85,870 SF ORGANIC UNIT STORAGE IC 12

DESCRIPTION: This facility provides storage facilities for organic mount-out stocks for air and ground Marine Corps units and materials classified as "out of stores", for maneuver and support Battalions.

ASSETS:			
T-20	${f T}$	TRK VEH BN	4,000 SF (S)
3112	P	MCB RNG	3,751 SF (A)
3204	P	1ST TRA BN	3,510 SF (A)
ASSETS:			i©
3211	S	TRK VEH BN	2,400 SF (S)
3233	S	TRK VEH BN	4,000 SF (I)
3310	P	TRK VEH BN	3,772 SF (A)
3424	P	RECON	17,413 SF (A)
3437	P	4TH MAR	24,690 SF (A)
3448	S	MCB PROPTY	4,000 SF (S)
3634			6,420 SF (S)
3635			820 SF (A)
3641	P	RECON	3,210 SF (A)

SUMMARY:

Adequate: 57,166 SF Substandard: 16,820 SF

> 73,986 SF TOTAL 85,870 SF BFR

11,884 SF Deficient

NOTES: Construct 18,000 SF FY89 MCON P-547/JFY90

FIP, MC-6009-25.

Demolish Bldgs 3211, 3233 and T-20 upon

completion.

Convert Bldg 3311 to CC 441-12 (3,068 SF)

CATGEORY CODE: 750-60 BOATING FACILITY

1 EA

NOTES: Using existing open paved and unpaved area for open storage.

DESCRIPTION:

ASSETS:

SUMMARY:

Adequate:

O SF

Substandard: 0 SF

0 SF TOTAL 1 SF BFR

1 SF Deficient

NOTES: Construct 1 EA Boating Facility, NAF P-656, FY88.

CATGEORY CODE: 451-10

2,220 SY

OPEN STORAGE

IC 12

DESCRIPTION: Open stabilized areas are required to store materials/equipment that do not require roof covering.

ASSETS:

SUMMARY:

Adequate:

0 SY

Substandard:

0 SY

O SY TOTAL

2,200 SY BFR

2,200 SY Deficient

CATEGORY CODE: 540-10

6 OU

DENTAL CLINIC

IC 13

DESCRIPTION: A dental clinic is an oral health care service facility equipped and staffed to perform dental procedures for general practices, a specialty, or a grouping of specialties. A dental facility normally includes treatment areas, administrative support areas, and storage areas.

ASSETS:

3426

3RD DENTAL

6 OU (A)

SUMMARY:

Adequate:

6 OU

Substandard: 0 OU

6 OU TOTAL

6 OU BFR

0 OU Deficient

NOTES:

CATEGORY CODE: 550-10

14,964 SF

MEDICAL CLINIC

IC 13

DESCRIPTION: The medical clinics are health care treatment facilities primarily intended and

appropriately staffed and equipped to provide emergency treatment and outpatient services. The clinics also perform activities related to the health of the personnel services such as examinations, immunizations, medical administration and preventive medical services.

ASSETS:			•
3321	P	TRK VEH BN	2,340 SF (A)
3427	${f T}$	3RD MED	7,228 SF (A)
3429	P		3,210 SF (A)
3502	P	4TH MAR	540 SF (A)
3627	P	4TH MAR	2,920 SF (A)
3635	P	RECON	2,450 SF (A)

SUMMARY:

Adequate: 18,688 SF Substandard: 0 SF

> 18,688 SF TOTAL 14,964 SF BFR

3,724 SF Deficient

NOTES:

CATEGORY CODE:	610-10	3,30	0	SF
ADMINISTRATIVE	OFFICE	, i i	Ţ	14

DESCRIPTION: This facility accommodates the executive and staff function of the installation and particular departments. The functions performed in an administrative office are primarily logistical and personnel management as distinguished from technical and strategic activities.

ASSETS:				
3104	P	TRK VEH BN	469 SF (A))
3110	P	MCB RNG	450 SF (A)	
3115	P	MCB RNG	464 SF (A))
3501	P		190 SF (A))
3620	P	MCB PROPTY	1,240 SF (A)
3610	Р	US ARMY	1,240 SF (A)

SUMMARY:

Adequate: 7,610 SF
Substandard: 0 SF
7,610 SF TOTAL
3,300 SF BFR
4,300 SF Excess

NOTES: Retain excess for contingency. Building 3610 outgranted to USARGO.

CATEGORY CODE: 740-05 900 SF
SNACK STAND IC

DESCRIPTION: A snacl stand is required to suppliment Main Exchange Food services.

ASSETS:

3615 P OWAX 2,360 SF (A)

SUMMARY:

Adequate: 2,360 SF Substandard: 0 SF

2,360 SF TOTAL 900 SF BFR

1,460 SF Deficient

NOTES: BFR to be revised based on information from AFFES.

ASSETS:

4TH MAR

12,075 SF (A)

CATEGORY CODE: 610-40
COURTROOM FACILITY

3,700 SF

DESCRIPTION: The function of this facility is to support Marine Corps legal services operations, and includes spaces for the courtroom proper, prosecution and defense, court reporter, judges' office, etc.

ASSETS:

SUMMARY:

Adequate: Substandard: 0 SF 0 SF

O SF TOTAL

3,700 SF BFR

3,700 SF Deficient

NOTES: BFR no longer valid.

CATEGORY CODE: 610-71 11,728 SF REGIMENTAL HEADQUARTERS IC 14

DESCRIPTION: This category code is for a Fleet Marine Force (FMF) facility and provides the necessary administrative space to conduct daily operations of the 4th Infantry Regiment (3d MAR).

SUMMARY:

Adequate: 12,075 SF

0 SF

Substandard:

12,075 SF TOTAL 11,728 SF BFR 347 SF Excess

NOTES:

CATEGORY CODE: 610-72

33,649 SF

BATTALION HEADQUARTERS (MARCOR)

IC 14

DESCRIPTION: This category code is for a Fleet Marine Force (FMF) facility and provides the necessary administrative space to conduct the daily operations of maneuver and support battalions.

ASSETS:

3319	P	TRK VEH BN	5,750 SF (A)
	Þ	TRK VEH BN	5,820 SF (A)
3320	F	IKK ARII PM	The state of the s
3410	P	TRK VEH BN	2,672 SF (A)
3511	P	4TH MAR	5,645 SF (A)
3512	P	4TH MAR	2,340 SF (A)
3527	P	4TH MAR	5,616 SF (A)
3635	₽	4TH MAR	820 SF (A)
3643	P	RECON	3,940 SF (A)

SUMMARY:

Adequate:

31,783 SF

Substandard:

0 SF

31.783 SF TOTAL 33,649 SF BFR

1,866 SF Deficient

NOTES:

CATEGORY CODE: 610-73

78,960 SF IC 14

4,090 SF (A)

4,090 SF (A)

4,090 SF (A)

COMPANY HEADQUARTERS

DESCRIPTION: This facility provides office space to carry out the day-to-day company administrative duties of company and battery sized

units.

3604

3611

3618

Ρ

ASSETS: 3312 P TRK VEH BN 4,090 SF (A) 4,090 SF (A) 3313 TRK VEH BN 3324 4,090 SF (A) TRK VEH BN 3403 TRK VEH BN 4,090 SF (A) 3405 P TRK VEH BN 4,090 SF (A) 3502 4TH MAR 1,800 SF (A) 3512 Р 4TH MAR 1,170 SF (A) 3513 4TH MAR 1,750 SF (A) 3520 р 4TH MAR 4,090 SF (A) 3525 4TH MAR 4,090 SF (A) 3528 4TH MAR 3,210 SF (A) 3531 P 4TH MAR 4,090 SF (A) 3542 4TH MAR 4,090 SF (A)

4TH MAR

4TH MAR

4TH MAR

ASSETS:

3642

3628 4TH MAR

4.090 SF (A)

6,420 SF (A)

SUMMARY:

Adequate: Substandard: 64,310 SF

3,210 SF

RECON

67,520 SF TOTAL

78,960 SF BFR

11.440 SF Deficient

NOTES: Convert 6,420 SF of CC 721-11 to CC 610-73 to support Company A, 3rd LAV BN. Convert 4,090 SF of CC 740-88 to CC

CATEGORY CODE: 690-10

610-73.

4 EA IC 14

FLAGPOLE

DESCRIPTION: This structure provides flagpoles for the Camp Headquarters, firing ranges, and for general use.

ASSETS:

3104A р MCB RNG 3440 P CAMP CDR 1 EA (A)

3412A p MCB RNG 3500 -P CAMP CDR 1 EA (A) 1 EA (A) 1 EA (A)

SUMMARY:

Adequate: 4 EA

Substandard: 0 EA

4 EA TOTAL	ASSETS:	
4 EA BFR	 	
0 EA Deficient	3425 P 300 PN (A))
	3428 P 3D MED 56 PN (S))
NOTES:	3429 P 4TH MAR 28 PN (S))
distribution of the control of the c	3431 P 4TH MAR 56 PN (S))
CATEGORY CODE: 721-11 2,507 PN	3432 P 4TH MAR 56 PN (S))
BEQ E1-E4 IC 15	3433 P 4TH MAR 56 PN (S))
~	3507 P 4TH MAR 56 PN (S))
DESCRIPTION: This facility provides berthing	3508 P 4TH MAR 56 PN (S))
space for enlisted personnel in the grades of	3509 P 4TH MAR 56 PN (S))
E1-E4.	3517 P 4TH MAR 56 PN (S))
	3518 P 4TH MAR 56 PN (S))
ASSETS:	3521 P 4TH MAR 56 PN (S))
Application for the state of th	3522 P 4TH MAR 56 PN (S))
3304 P TRK VEH BN 61 PN (S)	3523 P 4TH MAR 56 PN (S))
3306 P TRK VEH BN 56 PN (S)	3524 P 4TH MAR 28 PN (S))
3307 P CMP CDR 56 PN (S)	3528 P 4TH MAR 28 PN (S))
3314 P TRK VEH BN 56 PN (S)	3529 P 4TH MAR 56 PN (S)
3316 P TRK VEH BN 56 PN (S)	3532 P 4TH MAR 56 PN (S))
3318 P CAMP CDR 56 PN (S)	3533 P 4TH MAR 56 PN (S))
3323 P TRK VEH BN 56 PN (S)	3603 P 4TH MAR 56 PN (S))
3326 P TRK VEH BN 56 PN (S)	3606 P 4TH MAR 56 PN (S)
3327 P TRK VEH BN 56 PN (S)	3607 P 4TH MAR 56 PN (S)
3332 P TRK VEH BN 300 PN (A)	3608 P 4TH MAR 56 PN (S))
3404 P TRK VEH BN	3609 P 4TH MAR / 56 PN (S)
50	3614 P 4TH MAR 56 PN (S)
56 PN (S)	3619 P 4TH MAR 56 PN (S)
3406 P TRK VEH BN 56 PN (S)	3621 P 4TH MAR 56 PN (S)
3407 P TRK VEH BN 56 PN (S)	3622 P 4TH MAR 56 PN (S)
3409 P TRK VEH BN 56 PN (S)	3623 P 4TH MAR 56 PN (S)
3411 P TRK VEH BN 56 PN (S)	3624 P 4TH MAR 56 PN (S)
3412 P TRK VEH BN 27 PN (S)	3630 P 4TH MAR 312 PN (A)
3421 P CAMP CDR .61 PN (S)	3634 P RECON 56 PN (S) -
3422 P CAMP CDR 61 PN (S)	3636 P MCB FE 56 PN (S)

		S	

3637	P	RECON		56	PN	(S)
3638	P	RECON		56	PN	(S)
3639	P	RECON		56	PN	(S)

SUMMARY:

Adequate: 912 PN Substandard: 2,786 PN

> 3,698 PN TOTAL 2,507 PN BFR 1,191 PN Excess

NOTES: The following buildings are unit rotational BEQs to be air conditioned by FY88 MCON P-539: 3304, 3306, 3307, 3314, 3431, 3432, 3433, 3507, 3508, 3509, 3517, 3518, 3521, 3522, 3523, 3524, 3528, 3539, 3532, 3533, 3603, 3607, 3608, 3609, 3614, 3619, 3621, 3622, 2623, and 3624.

All non-rotational enlisted personnel should have adequate facilities once the increased accompanied tours initiative is complete and assuming MCON P-539 is funded, all rotational enlisted personnel will be in adequate quarters; therefore no additional BEQ construction at Camp Schwab will be required. Buildings 3326, 3404, 3409, and 3412 to be demolished by FY OK609MS.

Buildings 3406, 3407, 3411, 3634, 3636, 3638, and 3639 are vacant and will be converted or demolished (to be determined). Convert Building 3316 to CC 610-73 for incoming A

Company, 3rd LAV Battalion. As accompanied tours increase, vacate Buildings 3323 and 3428; convert Building 3428 to CC 740-88; convert or demolish Building 3323 (to be determined). Retain excess for transients. Building 3411 to be converted to CC 740-38 (6,420SF).

CATEGORY CODE:	721-12	278	PN
BEQ, E-5		, IC	15

DESCRIPTION: This facility provides berthing spaces for enlisted personnel in the grade of E-5.

ASSETS:

					4.3			
3306	P	TRK VEH	BN			5	PN	(S)
3307	P	CAMP CD	R			5	PN	(S)
3314	P	TRK VEH	BN			5	PN	(S)
3316	P	TRK VEH	BN			5	PN	(S)
3318	' P	CAMP CD	R		17.8	5	PN	(S)
3323	P	TRK VEH	BN	.* .		5	PN	(S)
3326	P	TRK VEH	BN	· ·		5	PN	(S)
3327	: P	TRK VEH	BN			5	ΡN	(S)
3332	P	TRK VEH	BN		1	50	PN	(A)
3404	P	TRK VEH	BN			. 5	PN	(S)
3406	P	TRK VEH	BN			5	PN	(S)
3407	P	TRK VEH	BN			5	PΝ	(S)
3409	P	TRK VEH	BN			5	PN	(S)
3411	P	TRK VEH	BN			5	PN	(S)
3412	P	TRK VEH	BN			5	PN	(S)
3425	· P	3RD MED	BN			50	PN	(A)
3428	P	4TH MAR				5	PN	(S)
3429	P	4TH MAR				2	PN	(S)
3431	P	4TH MAR				5	PN	(S)

ASSETS:				SUMMARY:	
				Adequate: 150 PN	
3432	P	4TH MAR	5 PN (S)	Substandard: 234 PN	•
3433	P	4TH MAR	5 PN (S)	384 PN TOTAL	
3507	P	4TH MAR	5 PN (S)	278 PN BFR	
3508	P	4TH MAR	5 PN (S)	106 PN Excess	
3509	P	4TH MAR	5 PN (S)		
3517	P	4TH MAR	5 PN (S)	NOTES: See Notes under CC 721-11.	
3518	P	4TH MAR	5 PN (S)		•
3521	P	4TH MAR	5 PN (S)	CATEGORY CODE: 721-13	229 PN
3522	P	4TH MAR	5 PN (S)	BEQ, E6-E9	IC 15
3523	P	4TH MAR	5 PN (S)		. *
3524	P	4TH MAR	5 PN (S)	DESCRIPTION: This facility provides	berthing
3528	P	4TH MAR	2 PN (S)	spaces for enlisted personnel in the	7
3532	P	4TH MAR	5 PN (S)	E6-E9.	•
3533	P	4TH MAR	5 PN (S)		
				ASSETS:	•
ASSETS:					4
			÷	3330 P CAMP CDR 1	29 PN (A)
3603	P	4TH MAR	5 PN (S)		29 PN (A) 00 PN (A)
3603 3606	P P	4TH MAR 4TH MAR	5 PN (S) 5 PN (S)	weeks to start their	
3606	P	4TH MAR	5 PN (S)	3416 P 3RD FSSG 1	
3606 3607	P P	4TH MAR 4TH MAR	5 PN (S) 5 PN (S)	3416 P 3RD FSSG 1 SUMMARY:	
3606 3607 3608	P P P	4TH MAR 4TH MAR 4TH MAR	5 PN (S) 5 PN (S) 5 PN (S)	3416 P 3RD FSSG 1 SUMMARY: Adequate: 229 PN	
3606 3607 3608 3609	P P P	4TH MAR 4TH MAR 4TH MAR 4TH MAR	5 PN (S) 5 PN (S) 5 PN (S) 5 PN (S)	3416 P 3RD FSSG 1 SUMMARY: Adequate: 229 PN Substandard: 0 PN	
3606 3607 3608 3609 3614	P P P P	4TH MAR 4TH MAR 4TH MAR 4TH MAR 4TH MAR	5 PN (S) 5 PN (S) 5 PN (S) 5 PN (S) 5 PN (S)	SUMMARY: Adequate: 229 PN Substandard: 0 PN 229 PN TOTAL	
3606 3607 3608 3609 3614 3619 3621	P P P P	4TH MAR	5 PN (S) 5 PN (S) 5 PN (S) 5 PN (S) 5 PN (S) 5 PN (S)	SUMMARY: Adequate: 229 PN Substandard: 0 PN 229 PN TOTAL 229 PN BFR	
3606 3607 3608 3609 3614 3619	P P P P P	4TH MAR	5 PN (S) 5 PN (S) 5 PN (S) 5 PN (S) 5 PN (S) 5 PN (S) 5 PN (S)	SUMMARY: Adequate: 229 PN Substandard: 0 PN 229 PN TOTAL	
3606 3607 3608 3609 3614 3619 3621 3622	P P P P P	4TH MAR	5 PN (S) 5 PN (S)	SUMMARY: Adequate: 229 PN Substandard: 0 PN 229 PN TOTAL 229 PN BFR 0 PN Deficient	
3606 3607 3608 3609 3614 3619 3621 3622 3623	P P P P P	4TH MAR	5 PN (S)	SUMMARY: Adequate: 229 PN Substandard: 0 PN 229 PN TOTAL 229 PN BFR	
3606 3607 3608 3609 3614 3619 3621 3622 3623 3624	P P P P P P	4TH MAR	5 PN (S)	SUMMARY: Adequate: 229 PN Substandard: 0 PN 229 PN TOTAL 229 PN BFR 0 PN Deficient	
3606 3607 3608 3609 3614 3619 3621 3622 3623 3624 3630	P P P P P P	4TH MAR	5 PN (S)	SUMMARY: Adequate: 229 PN Substandard: 0 PN 229 PN TOTAL 229 PN BFR 0 PN Deficient NOTES: See notes under CC 721-11.	
3606 3607 3608 3609 3614 3619 3621 3622 3623 3624 3630 3634	P P P P P P P	4TH MAR	5 PN (S)	SUMMARY: Adequate: 229 PN Substandard: 0 PN 229 PN TOTAL 229 PN BFR 0 PN Deficient NOTES: See notes under CC 721-11. CATEGORY CODE: 740-12	00 PN (A)
3606 3607 3608 3609 3614 3619 3621 3622 3623 3624 3630 3634 3636	P P P P P P P	4TH MAR	5 PN (S)	SUMMARY: Adequate: 229 PN Substandard: 0 PN 229 PN TOTAL 229 PN BFR 0 PN Deficient NOTES: See notes under CC 721-11.	00 PN (A)

book

NOTES: Upgrade Dining Facility 3322 and 3613 in DESCRIPTION: FY86, M2/R2 OK611M/DK640R. CATEGORY CODE: 722-41 ASSETS: SF OFFICERS CLOSED MESS 3539 RED CROSS 551 SF (A) IC 15 DESCRIPTION: SUMMARY: Adequate: 551 SF Substandard: 0 SF 551 SF TOTAL ASSETS: 3222 P 8,615 SF (A) 480 SF BFR 71 SF Excess NOTES: SUMMARY: Adequate: 8,615 SF Substandard: 0 SF 3,000 PN 8,615 SF TOTAL CATEGORY CODE: 722-10 DINING FACILITY (DETACHED) EM IC 15 SF BFR SFDESCRIPTION: This category code is for closed NOTES: BFRL to be developed. dining facilities for unaccompanied personnel. ASSETS: CATEGORY CODE: 724-11 85 PN BOO W01-02 1,000 PN (A) IC 15 3322 TRK VEH BN 4TH MAR 1,000 PN (A) 3613 P 1,000 PN (A) DESCRIPTION: This facility provides quarters for 3629 4TH MAR officer personnel of grades W01-02. SUMMARY: Adequate: 3,000 PN ASSETS: O PN Substandard: 3,000 PN TOTAL 3214 P CAMP CDR 20 PN (S)

3216

3218

CAMP CDR

CAMP CDR

3,000 PN BFR

O PN Deficient

11/2

20 PN (S)

20 PN (S)

ASSETS:													-	
						Subst	andard:	90	PN					
3219	P CAMP	CDR	20	DN	(8)			90	PN	TOTAL				
3221	P CAMP		19							BFR				
					(2)			6	ΡN	Deficient				,
						አነርጥድር	. Const	miat	40	PN BOQ JF	/ወፋ ኮ ገ	D MC.	-6000.	-23
C771414 7						NOTE	_			room BOQ.				
SUMMARY:	2						COMBC	Lucc	50	TOOM DOO,	WINDIC	/g # 0#16	ilea,	
Adequate: Substandar	O PN													
Substandar														
	95 PN 85 PN	TOTAL				CATE	ORY COD	E: 7:	30-1	.0			4,80	O SF
		Excess				FIRE	STATION	_					10	C 16
	T-4 E14	LACESS												
NOTES: Con	struct 40	room BOQ, F	TP MC=6007=	óи.						acility is				
JFY	89. Const	truct 45 roo	m BOO.	47,		three	fire f	ight:	ing	vehicles a	and pe	erson	nel.,	,
	rogrammed		2027											
_												•		
CATEGORY C		12		96	PN	ASSET								/- 1
UOPH, 03 A	ND ABOVE	·		IC	15	3430	T	MCB	F.E.			4,/	04 SF	(A)
							**							:
Decorres						SUMMA	RY:				-			
Officer De	N: This fa	cility prov	ides quarter	s:	for		ate:	4,70	04 9	F.				
orrreer be	rsonner gr	ade 0-3 and	above.		1 -	-	andard:	•	0 8					
ASSETS:										F TOTAL				i '
										F BFR	1.7	,		,
3223 P	CAMP CD)R	20 F	170	(c)				96 S	F Deficie	nt			
3224 P			20 F			•								
3226 P			20 F											
3227 P		=-	20 F			NOTES	5:			•		1,00		
3229 P			10 P										,	
					,									
SUMMARY:								m.			,		F 001	
Adequate:	O PN						ORY COD	_					5,200	
						ISSUI	SYRETAIL	CTO.	THTV	G STORE			TC	16

DESCRIPTION: This is a retail outlet for military clothing and accessories. ASSETS: 3539 P 3,120 SF (A) MCB DSSC SUMMARY: Adequate: 3,120 SF Substandard: 0 SF 3,120 SF TOTAL 5,200 SF BFR 2,080 SF Deficient NOTES: BFRL to be revised to 3,120 SF. 6,400 SF CATEGORY CODE: 730-20 POLICE STATION IC 16 DESCRIPTION: This facility houses the military police force at Camp Hansen, to provide security, law enforcement and detention areas.

ASSETS: 3308 P CAMP CDR 6,420 SF (A) SUMMARY: Adequate: 6,420 SF Substandard: 0 SF 6,420 SF TOTAL 6,400 SF BFR 20 SF Excess

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NOTES:

CATEGORY CODE: 730-25 200 SF GATE/SENTRY HOUSE IC 16

DESCRIPTION: This facility is designed to provide shelter for gate guards.

ASSETS:

3132	P	CAMP CDR	49	SF	(A)
3235	P	MCB PMO	40	SF	(A)
3301	P	CAMP CDR	96	SF	(A)
3309	P	CAMP CDR	104	SF	(A)

SUMMARY:

Adequate: 289 SF Substandard: 0 SF 289 SF TOTAL 200 SF BFR 89 SF Excess

NOTES: Retain excess for contingency.

450 SF CATEGORY CODE: 730-66 IC 16 MISC PERSONNEL WEATHER SHELTERS

DESCRIPTION: Shelters are required at three bus stops: 2 on-base and one on the public highway opposite main gate.

ASSETS:		3,240 SF TOTAL	
3102 P CAMP CDR	120 SF (A)	5,855 SF BFR	
3300 P CAMP CDR	96 SF (A)	2,615 SF Deficient	
3605 P CAMP CDR	120 SF (A)		
3649 P CAMP CDR	120 SF (A)	NOTES: Construct 2,615 SF, unprog	rammed R-2.
SUMMARY:			
Adequate: 456 SF		CATEGORY CODE: 730-83	8,996 SF
Substandard: 0 SF	•	CHAPEL	IC 16
456 SF TOTAL			
450 SF BFR		DESCRIPTION: This facility provi	ides space for
6 SF Excess		religious services.	
	•		
NOTES:	•	ASSETS:	•
		3662 P CAMP CDR	8,996 SF (A)
CATEGORY CODE: 730-75	5,855 SF	SUMMARY:	
PUBLIC TOILET	IC 16	Adequate: 8,996 SF	e de la companya de
		Substandard: 0 SF	•,
DESCRIPTION: This facili	ty provides head	8,996 SF TOTAL	
facilities at the Firing	- -	8,996 SF BFR	
Tracked Vehicle Shop areas.		0 SF Deficient	
ASSETS:	•	NOTES:	
3110 P MCB RNG	559 SF (A)	a T To the last part a	S
3111 P MCB RNG	245 SF (A)		ē.
3246 P TRK VEH BN	570 SF (A)	CATEGORY CODE: 730-85	1,770 SF
3615 P OWAX	1,780 SF (A)	POST OFFICE	IC
	50 SF (A)	1 Vol. Oli 1 Vol.	10
	//	DESCRIPTION: This facility provi	des the postal
SUMMARY:		services required by Camp Schwab.	des the postar
Adequate: 3,240 SF		contracts reducered of comb pettams	
Substandard: 0 SF		ASSETS:	
	•	3656 P MCB POST OFFICE	1,770 SF (A)

SUMMARY:

Adequate: 1,770 SF

Substandard:

0 SF

1,770 SF TOTAL

1,770 SF BFR

0 SF Deficient

NOTES:

CATEGORY CODE: 740-01

EXCHANGE RETAIL STORE

10,500 SF

IC 16

DESCRIPTION: This facility provides retail store

services for Camp Schwab personnel.

ASSETS:

3541 P

XAWO

9,068 SF (A)

SUMMARY:

Adequate:

9,068 SF 0 SF

Substandard:

9,060 SF TOTAL

10,500 SF BFR

1,432 SF Deficient

NOTES:

CATEGORY CODE: 740-04

8,000 SF

EXCHANGE CAFETERIA

IC 16

DESCRIPTION: This facility provides cafeteria

services for personnel at Camp Schwab.

ASSETS:

3541

XAWO P

8,055 SF (A)

SUMMARY:

Adequate:

8,055 SF

0 SF Substandard:

8,055 SF TOTAL

8,000 SF BFR

55 SF Deficient

NOTES:

CATEGORY CODE: 740-08

1,800 SF

EXCHANGE FOOD STORE

DESCRIPTION: This facility provides food retail

sales such as food and beverage services.

ASSETS:

SUMMARY:

Adequate:

0 SF

Substandard:

0 SF O SF TOTAL

1,800 SF BFR

1,800 SF Deficient

NOTES:

CATEGORY CODE: 740-09
EXCHANGE SERVICE OUTLETS

6,690 SF IC 16

DESCRIPTION: This facility provides exchange services, including (as required) a beauty shop, barber shop, shoe repair, tailor shop, valet service, coin operated laundry/dry cleaning service, radio/TV repair, portrait studio, watch repair, optical shop, personnel services, and concessionaires.

ASSET	5:	•	
T-28	T T	XAWO	960 SF (A)
3419	P	XAWO	3,510
			SF (A)
3538	P	XAWO	6,420 SF (S)
3541	P	OWAX	338 SF (A)
3654	P	OWAX	585 SF (A)

SUMMARY:

Adequate: Substandard:

5,393 SF 0 SF

5,393 SF TOTAL 6,690 SF BFR

1,297 SF Deficient

NOTES: Building T-28 to be demolished.

BFR to be revised based on information to be provided by AAFES.

CATEGORY CODE: 740 -18 3,625 SF BANK IC 16 DESCRIPTION: A facility is required to provide banking services for personnel at Camp Schwab.

ASSETS:

3513 P AMEXB

2.340 SF (A)

SUMMARY:

Adequate: 2,340 SF Substandard: 0 SF

> 2,340 SF TOTAL 3,625 SF BFR

1,285 SF Deficient

NOTES: Construct 1,285 SF, unprogrammed, NAF, P-441.

CATEGORY CODE: 740-19 1,700 SF CREDIT UNION IC 16

DESCRIPTION: Credit Unions are private cooperative savings and loan organizations. Facilities for a properly chartered credit union may be provided to serve military personnel permitted in the by-laws of the Credit Union.

ASSETS:

3539 P NFCU

409 SF

(A)

SUMMARY:

Adequate: 409 SF Substandard: 0 SF 409 SF TOTAL

1,700 SF BFR

1,291 SF Deficient

NOTES: Construct 1,291 SF, unprogrammed NAF.

CATEGORY CODE: 740-28

2,400 SF

AMUSEMENT CENTER

IC 16

DESCRIPTION: This facility provides personal, family and recreational services for Camp Schwab personnel. Facilities operated by the United Services Organization (USO) are not a BFR item but are listed for inventory purposes only.

ASSETS:

3418 P USO

3541 P OWAX

9,368 SF (A) 1,989 SF (A)

SUMMARY:

Adequate: 1,989 SF

Substandard: 0 SF

1,989 SF TOTAL

2.400 SF BFR

402 SF Deficient

NOTES: Building 3418 outgranted to USO.

CATEGORY CODE: 740-36

7,500 SF

HOBBY SHOP/ARTS AND CRAFTS

IC 16

DESCRIPTION: This facility provides space for hobby/arts and crafts for personnel at Camp

Schwab. Due to the remoteness of the Camp and unaccompanied nature of the tours, heavy utilization of the facility is anticipated.

ASSETS:

SUMMARY:

Adequate:

0 SF 0 SF

Substandard:

O SF TOTAL

7,500 SF BFR

7,500 SF Deficient

NOTES: Convert 7,500 SF of CC 721-11/12 space to CC 740-36. (building to be demolished)

CATEGORY CODE: 740-37

4,305 SF

SPECIAL SERVICES ISSUE AND OFFICE

IC 16

DESCRIPTION: This facility provides management, storage, and issue space for recreational programs.

ASSETS:

3648 P MCB SPC SV

2,900 SF (A)

T-26

960 SF (S)

SUMMARY:

Adequate: 2,900 SF

Substandard:

960 SF

3,860 SF TOTAL 4,305 SF BFR 445 SF Deficient

NOTES: Construct 1,405 SF unprogrammed NAF P-426.

CATEGORY CODE: 740-38
HOBBY SHOP, AUTOMOTIVE

6,000 SF

DESCRIPTION: This facility provides space for upkeep of privately owned vehicles (POVs).

ASSETS:

SUMMARY:

Adequate: 0 SF Substandard: 0 SF

0 SF TOTAL

6,000 SF BFR

6,000 SF Deficient

NOTES: Convert 6,420 SF of CC 721-11/12 space to CC 740-38 (building 3411).

CATEGORY CODE: 740-40
BOWLING ALLEY

11,350 SF IC 16

DESCRIPTION: This facility provides 16 lanes of bowling.

ASSETS:

3665 P MCB SPC SV

8,064 SF (A)

SUMMARY:

Adequate: Substandard: 8,064 SF 0 SF

8,064 SF TOTAL 11,350 SF BFR

3,286 SF Deficient

NOTES: Construct 3,286 SF, unprogrammed NAF, P-744.

CATEGORY CODE: 740-43
GYMNASIUM

21,000 SF IC 16

DESCRIPTION: This facility provides a gymnasium which will include a multi-purpose court (basketball and volleyball), weight lifting rooms, karate/judo workout areas, and other related areas.

ASSETS:

3537	P	MCB SPC	SV		6,420	SF	(A)
3651	P	MCB SPC	sv	,	10,174		
3654	P	MCB SPC	sv		2,925	SF	(A)

SUMMARY:

Adequate: 13,099 SF Substandard: 6,420 SF

> 19,519 SF TOTAL 21,000 SF BFR

1,481 SF Deficient

NOTES: Construct 10,826 SF, FY89, MCON P-426, Convert building 3537 and 3624 to other use. CATEGORY CODE: 740-56

10,900 SF

THEATER

IC 16

DESCRIPTION: This facility provides recreational entertainment (live shows and movies) for

personnel at Camp Schwab.

ASSETS:

3646 P MCB SPC SV

17,290 SF (A)

SUMMARY:

Adequate: 17

17,290 SF

Substandard:

0 SF

17,290 SF TOTAL

10,900 SF BFR

6,390 SF Excess

NOTES:

CATEGORY CODE: 740-36

33,000 SF

ENLISTED MENS' CLUB

IC 16

DESCRIPTION: This facility provides restaurant service and social activity for enlisted

personnel at Camp Schwab.

ASSETS:

T-25 T MCB CLUBS

162 SF (S)

3652

MCB CLUBS

9,368 SF (A)

SUMMARY:

Adequate:

9,368 SF

Substandard:

162 SF

9,530 SF TOTAL

33,000 SF BFR

23,470 SF Deficient

NOTES: Construct 3,933 SF NAF N-322, FY84.

Construct 19,699 SF, unprogrammed NAF,

P-745.

CATEGORY CODE: 740-66

14,000 SF

SNCO

CLUB,

E6-E9

IC 16

DESCRIPTION: This facility provides restaurant service and social activities for Staff NCOs at

Camp Schwab.

ASSETS:

3438

P MCB CLUBS

7,228 SF (S)

SUMMARY:

Adequate:

0 SF

Substandard: 7,228 SF

7,228 SF TOTAL

14,000 SF BFR

6,772 SF Deficient

NOTES: Construct 6,772 SF, unprogrammed NAF

P-682.

CATEGORY CODE: 740-76 LIBRARY

2,350 SF IC 16

2,600 SF BFR 350 SF Deficient

NOTES: Construct 5,000 SF NAF N-411, FY85.

DESCRIPTION: This facility provides recreational reading services and study areas.

ASSETS:

3647 MCB SPC SV

2,350 (A)

SUMMARY:

Adequate: 2,350 SF Substandard:

0 SF

2,350 SF TOTAL 2,350 SF BFR

0 SF Deficient

NOTES:

CATEGORY CODE: 740-78 RECREATION PAVILION

2,600 SF IC 16 .

DESCRIPTION: This facility provides shelter at recreational areas such as parks, playgrounds and picnic areas.

ASSETS:

3615 MCB SPC SVCS

2,250 SF (A)

SUMMARY:

Adequate:

2,250 SF

Substandard:

0 SF

2,250 SF TOTAL

CATEGORY CODE: 740-81

RECREATION LODGE

0 units IC

DESCRIPTION: This facility supports enlisted personnel at all MCB Camp Butler camps, and all personnel and dependents on accompanied tours.

ASSETS:

SUMMARY:

Adequate:

0 units

Substandard: 0 units

0 units TOTAL

0 units BFR

O units Deficient

NOTES: To be supported at Camp Henoko.

CATEGORY CODE: 740-84

8 EA

INDOOR PLAYING COURT

IC 16

DESCRIPTION: This facility provides eight indoor courts for handball, racquetball, and squash.

ASSETS:

3236 MCB SP SVC 3543 MCB SP SVC 2 EA (A) 2 EA (A)

MCB SP SVC 3645

4 EA (S)

SUMMARY:

Adequate: 4 EA Substandard: 4 EA

> 8 EA TOTAL 8 EA BFR

O EA Deficient

NOTES:

CATEGORY CODE: 740-87

12,650 SF

BOATHOUSE

IC

DESCRIPTION: This facility supports the OraWan Recreation Area with space for an office, equipment check-out, repair and storage.

ASSETS:

T-27 T MCB SP SVC 960 SF (S)

3617 S MCB SP SVC 8,800 SF (A)

SUMMARY:

Adequate: 8,800 SF

Substandard: 960 SF 9,760 SF TOTAL 12,650 SF BFR

2,890 SF Deficient

NOTES: Construct 3,850 SF unprogrammed NAF

P-637.

CATEGORY CODE: 740-88

6,750 SF

EDUCATIONAL SERVICES CENTER

IC 16

DESCRIPTION: This facility provides space for the advancement of the academic, technical, and vocational education of military personnel of all grades and ranks in order to enhance their potential to the service.

ASSETS:

3434 P MCB EDU

4,090 SF (A)

SUMMARY:

Adequate: 4,090 SF Substandard: 0 SF

> 4,090 SF TOTAL 6,750 SF BFR

2,660 SF Deficient

NOTES: Convert Bldg 3428 (CC721-11/12) to CC 740-88. Convert Bldg 3434 to CC 610-73 (unprogrammed R-2).

CATEGORY CODE: 740-89

6,000 SF

BATHHOUSE

IC

DESCRIPTION: This facility supports the 50-meter Combat Training Pool.

ASSETS:

3417 P MCB SPC SV

4,160 SF (A)

Adequate: 4,160 SF Substandard: 0 SF 4,160 SF TOTAL 6,000 SF BFR 13644 P MCB SPC SV 1 EA (A) 1,840 SF Deficient NOTES: BFRL pending reduction to reflect existing assets considered adequate. EXAMPLE 19 EA Substandard: 2 EA Subs
Substandard: 0 SF 4,160 SF TOTAL 6,000 SF BFR 1,840 SF Deficient NOTES: BFRL pending reduction to reflect existing assets considered adequate. CATEGORY CODE: 750-10 13 EA PLAYING COURTS 1C 16 DESCRIPTION: These facilities provide outdoor courts, including tennis courts, basketball courts. ASSETS: CATEGORY CODE: 750-20 3 EA 3631 P MCB SPC SV 1 EA (A) 3632 P MCB SPC SV 1 EA (A) 3634 P MCB SPC SV 1 EA (A) 3636 P MCB SPC SV 1 EA (A) 3636 P MCB SPC SV 1 EA (A) 3637 P MCB SPC SV 1 EA (A) 3638 P MCB SPC SV 1 EA (A) 3638 P MCB SPC SV 1 EA (A) 3639 P MCB SPC SV 1 EA (A) 3631 P MCB SPC SV 1 EA (A) 3632 P MCB SPC SV 1 EA (A) 3631 P MCB SPC SV 1 EA (A) 3632 P MCB SPC SV 1 EA (A) 3634 P MCB SPC SV 1 EA (A) 3636 P MCB SPC SV 1 EA (A) 3636 P MCB SPC SV 1 EA (A) 3631 P MCB SPC SV 1 EA (A) 3632 P MCB SPC SV 1 EA (A) 3634 P MCB SPC SV 1 EA (A) 3636 P MCB SPC SV 1 EA (A) 3636 P MCB SPC SV 1 EA (A) 3637 P MCB SPC SV 1 EA (A) 3638 P MCB SPC SV 1 EA (A) 3638 P MCB SPC SV 1 EA (A) 3639 P MCB SPC SV 1 EA (A) 3630 P MCB SPC SV 1 EA (A) 3630 P MCB SPC SV 1 EA (A) 3630 P MCB SPC SV 1 EA (A) 3632 P MCB SPC SV 1 EA (A)
6,000 SF BFR 1,840 SF Deficient NOTES: BFRL pending reduction to reflect existing assets considered adequate. CATEGORY CODE: 750-10 DESCRIPTION: These facilities provide outdoor courts, including tennis courts, basketball courts, and outdoor handball courts. ASSETS: CATEGORY CODE: 750-20 DESCRIPTION: These facilities provide outdoor plant tennis courts, basketball courts, and outdoor handball courts. CATEGORY CODE: 750-20 3 EA 3217 P MCB SPC SV 1 EA (A) 3220 P MCB SPC SV 2 EA (A) 3303 P MCB SPC SV 1 EA (A) DESCRIPTION:
NOTES: BFRL pending reduction to reflect existing assets considered adequate. CATEGORY CODE: 750-10 DESCRIPTION: These facilities provide outdoor courts, including tennis courts, basketball courts, and outdoor handball courts. ASSETS: ASSETS: CATEGORY CODE: 750-20 ASSETS: CATEGORY CODE: 750-20 ASSETS: CATEGORY CODE: 750-20 ASSETS: CATEGORY CODE: 750-20 A SEA BFRL to be revised. CATEGORY CODE: 750-20 A SEA IC 16 BESCRIPTION: These facilities provide outdoor courts, and outdoor handball courts. DESCRIPTION: These facilities provide outdoor courts, basketball courts, and outdoor handball courts. DESCRIPTION: These facilities provide outdoor courts, basketball courts, and outdoor handball courts. DESCRIPTION: These facilities provide outdoor courts, basketball courts, and outdoor handball courts. DESCRIPTION: These facilities provide outdoor courts, basketball courts, and outdoor handball courts. DESCRIPTION: These facilities provide outdoor courts, basketball courts. DESCRIPTION: These facilities provide outdoor courts, basketball courts, and outdoor handball courts. DESCRIPTION: These facilities provide outdoor courts, basketball courts and outdoor handball courts.
NOTES: BFRL pending reduction to reflect existing assets considered adequate. SUMMARY: Adequate: 19 EA Substandard: 2 EA CATEGORY CODE: 750-10 13 EA PLAYING COURTS IC 16 13 EA EXCESS DESCRIPTION: These facilities provide outdoor courts, including tennis courts, basketball courts, and outdoor handball courts. ASSETS: CATEGORY CODE: 750-20 3 EA CATEGORY CODE: 750-20 1 EA PLAYING FIELD IC 16 3217 P MCB SPC SV 1 EA (A) 3220 P MCB SPC SV 2 EA (A) 3303 P MCB SPC SV 1 EA (A) DESCRIPTION:
existing assets considered adequate. SUMMARY: Adequate: 19 EA
existing assets considered adequate. SUMMARY: Adequate: 19 EA
Adequate: 19 EA Substandard: 2 EA CATEGORY CODE: 750-10 13 EA PLAYING COURTS IC 16 13 EA BFR DESCRIPTION: These facilities provide outdoor courts, including tennis courts, basketball courts, and outdoor handball courts. ASSETS: CATEGORY CODE: 750-20 3 EA PLAYING FIELD IC 16 CATEGORY CODE: 750-20 16 3217 P MCB SPC SV 1 EA (A) 3220 P MCB SPC SV 2 EA (A) 3303 P MCB SPC SV 1 EA (A) DESCRIPTION:
CATEGORY CODE: 750-10 13 EA PLAYING COURTS 10 16 DESCRIPTION: These facilities provide outdoor courts, including tennis courts, basketball courts, and outdoor handball courts. ASSETS: CATEGORY CODE: 750-20 CATEGORY CODE: 750-20 3 EA PLAYING FIELD CATEGORY CODE: 750-20 3 EA PLAYING FIELD DESCRIPTION: 3220 P MCB SPC SV 1 EA (A) 3220 P MCB SPC SV 2 EA (A) 3303 P MCB SPC SV 1 EA (A)
CATEGORY CODE: 750-10 13 EA PLAYING COURTS 10 16 13 EA BFR 8 EA Excess DESCRIPTION: These facilities provide outdoor courts, including tennis courts, basketball courts, and outdoor handball courts. ASSETS: CATEGORY CODE: 750-20 3 EA PLAYING FIELD 10 16 13 EA TOTAL 13 EA BFR 8 EA Excess NOTES: BFRL to be revised. 15 16 16 13 EA EXCESS DESCRIPTION: DESCRIPTION: DESCRIPTION: DESCRIPTION:
PLAYING COURTS IC 16 B EA Excess DESCRIPTION: These facilities provide outdoor courts, including tennis courts, basketball courts, and outdoor handball courts. ASSETS: CATEGORY CODE: 750-20 3 EA PLAYING FIELD IC 16 B EA Excess NOTES: BFRL to be revised. CATEGORY CODE: 750-20 3 EA PLAYING FIELD IC 16 3217 P MCB SPC SV 1 EA (A) 3220 P MCB SPC SV 2 EA (A) 3303 P MCB SPC SV 1 EA (A)
DESCRIPTION: These facilities provide outdoor courts, including tennis courts, basketball courts, and outdoor handball courts. ASSETS: CATEGORY CODE: 750-20 3 EA PLAYING FIELD 3217 P MCB SPC SV 1 EA (A) 3220 P MCB SPC SV 2 EA (A) 3303 P MCB SPC SV 1 EA (A) DESCRIPTION: B EA Excess NOTES: BFRL to be revised. CATEGORY CODE: 750-20 IC 16
DESCRIPTION: These facilities provide outdoor courts, including tennis courts, basketball courts, and outdoor handball courts. ASSETS: CATEGORY CODE: 750-20 3 EA PLAYING FIELD 3217 P MCB SPC SV 1 EA (A) 3220 P MCB SPC SV 2 EA (A) 3303 P MCB SPC SV 1 EA (A) DESCRIPTION:
Courts, including tennis courts, basketball ASSETS: CATEGORY CODE: 750-20 3 EA PLAYING FIELD 3217 P MCB SPC SV 1 EA (A) 3220 P MCB SPC SV 2 EA (A) 3303 P MCB SPC SV 1 EA (A)
Courts, and outdoor handball courts. ASSETS: CATEGORY CODE: 750-20 3 EA PLAYING FIELD 1C 16 3217 P MCB SPC SV 1 EA (A) 3220 P MCB SPC SV 2 EA (A) 3303 P MCB SPC SV 1 EA (A)
ASSETS: CATEGORY CODE: 750-20 3 EA PLAYING FIELD 3217
SECTION: SECTION SEC
SECTION: SECTION SEC
3217 P MCB SPC SV 1 EA (A) 3220 P MCB SPC SV 2 EA (A) 3303 P MCB SPC SV 1 EA (A) DESCRIPTION:
3220 P MCB SPC SV 2 EA (A) <u>DESCRIPTION</u> : 3303 P MCB SPC SV 1 EA (A)
3303 P MCB SPC SV 1 EA (A)
5517 I Med bid by I m. (17)
3328 P MCB SPC SV 1 EA (A) ASSETS:
3408 P MCB SPC SV 1 EA (S)
3414 P MCB SPC SV 1 EA (S) 3514 T MCB SPC SV 1 EA (S)
3436 P MCB SPC SV 1 EA (A) 3534 T MCB SPC SV 1 EA (A)
3510 P MCB SPC SV 1 EA (A)
3544 P MCB SPC SV 1 EA (A) SUMMARY:
3546 P MCB SPC SV 1 EA (A) Adequate: 1 EA
3601 P MCB SPC SV 1 EA (A) Substandard: 1 EA
3602 P MCB SPC SV 1 EA (A) 2 EA TOTAL
3612 P MCB SPC SV 1 EA (A) 3 EA BFR
3626 P MCB SPC SV 1 EA (A) 1 EA Deficient

DESCRIPTION:

ASSETS:

SUMMARY:

Adequate:

O EA

Substandard:

O EA

O EA TOTAL

1 EA BFR

1 EA Deficient

NOTES: Construct 9 hole minature golf course NAF

P-746 unprogrammed.

INVESTMENT CATEGORY (I. C.) NUMBERS AND DESCRIPTIONS

I. C. No.	DESCRIPTIONS				
1.	Aviation Operational Facilities		,		
2.	Communication Operational Facilities				
3.	Waterfront Operational Facilities				
4.	Other Operational Facilities				jerovenie i se
5.	Training Facilities				•
6.	Aviation Maintenance/Production				
7.	Shipyard Maintenance/Production				
8.	Other Mainenance/Production				•
9.	RDT&E			•	1
10.	POL Supply/Storage			•	
11.	Ammo Supply/Storage				
12,	Other Supply/Storage				
13.	Medical				
14.	Administrative				A DATE OF
15.	Troop Housing/Messing			:	
16.	Other Personnel Support & Service				
17.	Utilities				
18.	Real Estate & Ground Structures				
19.	Continuing Authority				
20.	PSEUDO Investment Category used for Fa	mily	Hou	sing	purposes only.
	•	-		•	

NOTES: Construct 1 EA, unprogrammed NAF P-759.
Rehab Facility 3514, NAF unprogrammed.

d,

CATEGORY CODE: 750-30 25 ME OUTDOOR SWIMMING POOL, INSTALLATION IC 10

DESCRIPTION: This facility provides a 25-meter recreational swimming pool.

ASSETS:

SUMMARY:

Adequate: 0 ME Substandard: 0 ME

> 0 ME TOTAL 25 ME BFR

> > 25 ME Deficient

NOTES: 50 ME Combat Training Pool, CC 179-55, also used for recreational purposes, therefore no additional construction proposed. BFR to be revised.

CATEGORY CODE: 750-52 1 EA
SKEET/TRAP RANGE IC

DESCRIPTION: This facility provides a skeet and trap range for Camp Schwab personnel.

ASSETS:

SUMMARY:

Adequate: 0 EA Substandard: 0 EA

> O EA TOTAL 1 EA BFR

1 EA Deficient

NOTES: Construct 1 EA Skeet/Trap Facility, NAF, unprogrammed.

CATEGORY CODE: 831-41 1,500 SF HAZARDOUS WASTE STORAGE FACILITY IC

DESCRIPTION: This facility provides temporary storage of Hazardous Wastes generated at Camp Schwab, Henoko and the Northern Training Area.

ASSETS:

SUMMARY:

Adequate: 0 SF Substandard: 0 SF

> 0 SF TOTAL 1,500 SF BFR 1,500 SF Deficient

NOTES: Construct 1,500 SF Hazardous Waste Storage Facility, FY86 HQMC Environmental OK651R.

CATEGORY CODE: 750-40 1 EA
MINATURE GOLF COURSE IC

HENOKO BFRL

CATEGORY CODE: 111-20
HELICOPTER LANDING PADS

1,100 SY IC 01

DESCRIPTION: Helicopter landing pads are required for emergencies, VIP passenger service, and landing and offloading practice.

ASSET:

1094A

CMP CDR 1 EA (A)

SUMMARY:

Adequate: Substandard:

1 EA O EA

P

1 EA TOTAL 1 EA BFR

O EA DEFICIENT

NOTE:

CATEGORY CODE: 143-20

3,000 SF

ORDNANCE OPERATIONS BUILDING

IC

DESCRIPTION: An ordnance operations building is authorized where there is a need to control an ordnance operation. Ordnance operations are those involving ammunition storage, handling or disposal.

ASSET:

1050 P

CAMP CDR

3,233 SF (A)

SUMMARY:

Adequate: Substandard:

3,233 SF 0 SF

3,233 SF TOTAL 3,000 SF BFR 233 SF EXCESS

NOTE:

CATEGORY CODE: 143-45
ARMORY

576 SF

IC 04

DESCRIPTION: An Armory for storage and routine maintenance of small arms and emergency gear is required for approximately 260 personnel.

ASSET:

1016

P CAMP CDR

200 SF (A)

SUMMARY:

Adequate: Substandard:

200 SF 0 SF

200 SF TOTAL 576 SF BFR

376 SF DEFICIENT

NOTE: Construct 376 SF, unprogrammed R-1.

CATEGORY CODE: 143-78

334 SF

FLAMMABLE STOREHOUSE

IC

DESCRIPTION: Two paint lockers are required to store hazardous/flammable liquids used by the automotive shops of the Supply Battalion, 3d FSSG and the 3d Recon Battalion.

ASSETS:		•	CATEGORY CODE:	162-10	O EA
1010A P C	CAMP CDR 42 SF	(A)	GUN PLACEMENT		IC 05
1010B P C	AMP CDR 36 SF	(A)	COLL E ELICEIMAN		
1010C P C	AMP CDR 36 SF	(A)	DESCRIPTION:		1.1
		(A)	DESCRIPTION:		e e e e e e e e e e e e e e e e e e e
	AMP CDR 100 SF	(A)		en e	'
		•	ASSET:		
SUMMARY:			HODEL:		
	34 SF				
Substandard:			CIMMA DV.		
	34 SF TOTAL		SUMMARY:	1 EA	
a to	34 SF BFR	•	Adequate:		
	O SF DEFICIENT		Substandard:	O EA	
	O SI DEFICIENT			1 EA TOTAL	
NOTE:				O EA BFR	¥
NOTE:				1 EA EXCESS	
CAMECODY CODE	171.10	1,170 SF	NOTE:		
CATEGORY CODE:		IC 05			
ACADEMIC INSTR	RUCTION BUILDING	10 05			•
BECODIDETON.	muta saatitaa maastaa				d was
DESCRIPTION: instruction	This facility provides classrooms for Marin		CATEGORY CODE:		1 EA
	Classrooms for Mari	ne Corps	COMBAT TRAININ	G COURSE	IC 05
personnel.		•			
a comm.	4.4			An obsolete course is	
ASSET:		1 000 00 /53	the physical	-	of Marines
1060 P C	AMP CDR	1,200 SF (A)	assigned to Ca	mp Henoko.	•
	en magnitude de				*
SUMMARY:	4 888 55		ASSET:	•	
*	1,200 SF			•	1 EA (A)
Substandard:	O SF		•		• *
	1,200 SF TOTAL		SUMMARY:		
	1,170 SF BFR		Adequate:	1 EA	
production of the second secon	30 SF EXCESS			O EA	•
				1 EA TOTAL	
NOTE:				1 EA BFR	
				O EA DEFICIENT	
		•			

NOTE:

CATEGORY CODE: 214-51
AUTO ORGANIZATIONAL SHOP

3,840 SF IC 08

DESCRIPTION: This facility is required to maintain organizational equipment of Ammunition Company, 3d FSSG.

ASSET:

1010 P 3D FSSG

4,751 SF (S)

SUMMARY:

Adequate:

0 SF

Substandard:

4,751 SF

4,751 SF TOTAL

3,840 SF BFR

891 SF EXCESS

NOTES: Rehab Bldg. 1010 ESR 211-83. Retain excess.

CATEGORY CODE: 214-55
VEHICLE WASH PLATFORM

1 EA IC 08

DESCRIPTION: Vehicle wash platforms with hose connections should be provided on the basis of one vehicle washing space for each 50 vehicles assigned to the motor pool.

ASSET:

1010E P CAMP CDR

1 EA (A)

SUMMARY:

Adequate:

1 EA

Substandard: 0 EA SF

1 EA TOTAL

1 EA BFR

O EA DEFICIENT

NOTE:

CATEGORY CODE: 216-10

5,500 SF

AMMO REWORK & O/H SHOP

IC

DESCRIPTION: A facility is required for inspection, minor maintenance, crating and shipping of ammunition.

ASSETS:

P

CAMP CDR

1,880 SF (A)

1060

P

CAMP CDR

3,510 SF (A)

SUMMARY:

'Adequate:

5,390 SF

Substandard:

0 SF

5,390 SF TOTAL

5,500 SF BFR

110 SF EXCESS

NOTE: Negligible deficiency.

CATEGORY CODE: 219-10

525 SF

PUBLIC WORKS SHOP

IC 08

DESCRIPTION: This shop is required to provide facilities to perform maintenance on all buildings, grounds, ground structures, utilities plants and distribution systems, HVAC systems, internal communications and alarm systems, and roads.

ASSETS:

1000A MCB FE 1,565 SF (A)

SUMMARY:

Adequate:

156 SF

Substandard:

0 SF

156 SF TOTAL

525 SF BFR

369 SF DEFICIENT

NOTE: Construct 369 SF, unprogrammed R-1.

CATEGORY CODE: 421-12 7,620 SF FUSE & DETONATOR MAGAZINE IC 11

DESCRIPTION: Operational experience indicates that three 25'x 80' magazines are needed to accommodate the absla, compatability, and quantity distance requirements.

ASSET:

-						
1069	P	CAMP	CDR	2,426	SF	(A)
1097	P	CAMP	CDR	2,082	SF	(A)
1101	P	CAMP	CDR	2.455	SF	(A)

SUMMARY:

Adequate:

6,963 SF

Substandard:

0 SF 6,963 SF TOTAL

7,620 SF BFR

657 SF DEFICIENT

NOTE:

CATEGORY CODE: 421-32

10,000 SF

INERT STOREHOUSE

IC 11

DESCRIPTION: This facility is required for expended cartridges and other inert items.

ASSET:

1060 CAMP CDR 9.423 SF (A)

SUMMARY:

Adequate:

9,432 SF

Substandard:

0 SF 9,432 SF TOTAL

10,000 SF BFR

568 SF DEFICIENT

NOTE: Negligible deficiency.

CATEGORY CODE: 421-48

15,240 SF

SMALL ARMS/PYROTECHNIC MAGAZINE

IC 11

DESCRIPTION: This facility is required to provide on-site ammo and pyrotechnic supplies for the rifle and pistol ranges.

ASSETS: SUMMARY:	
1061 P CAMP CDR 2,426 SF (A) Adequate: 23,931 SF	
1097 P CAMP CDR 208 SF (A) Substandard: 0 SF	
1102 P CAMP CDR 2,455 SF (A) 23,931 SF TOTAL	
1103 P CAMP CDR 2,455 SF (A) 22,860 SF BFR	
1104 P CAMP CDR 2,455 SF (A) 931 SF EXCESS	
1105 P CAMP CDR 2,455 SF (A)	
1108 P CAMP CDR 2,455 SF (A) NOTE:	
1100	
	V 178 232
SUMMARY: CATEGORY CODE: 441-12	7,500 SF
Adequate: 0 SF ORGANIC UNIT STORAGE	IC 12
Substandard: 1,000 SF	
1,000 SF TOTAL DESCRIPTION: This facility p	rovides storage
1,000 SF BFR facilities for organic mount-out	t stocks for air
0 SF Deficient and ground Marine Corps units	s and materials
classified as "out of stores",	for maneuver and
NOTE: Negligible deficiency. support Battalions.	
ASSET:	
CATEGORY CODE: 421-22 23,931 SF 1073 P CAMP CDR	4,481 SF (A)
H. E. MAGAZINE IC 11	
SUMMARY:	
DESCRIPTION: Adequate: 4,481 SF	
Substandard: 0 SF	
4,481 SF TOTAL	
ASSETS: 7,500 SF BFR	
1070 P 2,426 SF (A) 3,181 SF DEFICIEN	NT
1071 P 2,426 SF (A)	
1081 P 2,475 SF (A) NOTE: Construct 3,019 SF, unprog	grammed R2.
1091 P 2,455 SF (A)	
1092 P 2,455 SF (A)	
1096 P 2,455 SF (A) CATEGORY CODE: 421-42	10,160 SF
1097 P 1,874 SF (A) SMOKE DRUM STOREHOUSE	IC 11
1098 P 2,455 SF (A)	
1099 P 2,455 SF (A) DESCRIPTION: This facility p	provides general
1106 P 2.455 SF (A) storage space for maneuve	

Adequa	ate:	12	.266 SF			
SUMMA	RY:					
1107	P	CAMP	CDR	2,455	SF	(A)
1093	P	CAMP	CDR	2,455		532
1090	P	CAMP	CDR	2,455	SF	(A)
1080	P	CAMP	CDR	2,475	SF	(A)
1064	P	CAMP	CDR	2,426	SF	(A)
ASSET	:					

Adequate: 12,266 SF Substandard: 0 SF

> 12,266 SF TOTAL 10,160 SF BFR

2,106 SF DEFICIENT

NOTE:

CATEGORY CODE:	451-10	250	SY
OPEN STORAGE		IC	12

DESCRIPTION: Open stabilized areas are required to store materials/equipment that do not require roof covering.

ASSET:

P MCB FE 787 SY (A)

SUMMARY:

Adequate: 787 SY Substandard: 0 SY

> 787 SY TOTAL 250 SY BFR 537 SY EXCESS

NOTE:

CATEGORY CODE: 421-52
S.P. & P. MAGAZINE

33,020 SF IC 11

DESCRIPTION: The smokeless powder projectile magazine is used for the storage of smokeless powder, pyrotechnics, rocket motors, rocket heads, loaded projectiles, fixed ammunition, small arms ammunition, and other fire (Class 1 Division) or missile hazard material.

ASSETS:						
1067	P	CAMP	CDR	2,426	SF	(A)
1072	P	CAMP	CDR	2,426	SF	(A)
1082	P	CAMP	CDR	2,475	SF	(A)
1083	P	CAMP	CDR	2,475	SF	(A)
1084	P	CAMP	CDR	2,475	SF	(A)
1085	P	CAMP	CDR	2,475	SF	(A)
1094	P	CAMP	CDR	2,455	SF	(A)
1095	P	CAMP	CDR	2,455	SF	(A)
1109	P	CAMP	CDR	2,455	SF	(A)
1110	P	CAMP	CDR	2,455	SF	(A)
1111	P	CAMP	CDR	2,455	SF	(A)
1112	P	CAMP	CDR	2,455	SF	(A)

SUMMARY:

Adequate: 29,482 SF
Substandard: 0 SF
29,482 SF TOTAL
33,020 SF BFR
4,462 SF DEFICIENT

NOTE: Negligible deficiency.

CATEGORY CODE: 421-72
MISSILE MAGAZINE

19,940 SF IC 11 DESCRIPTION: Missile magazines are generally rectangular earth covered concrete magazines in which assembled missiles are stored.

AS:	SE'	rs:	i

1062	P	CAMP CDR	2,426 SF	(A)
1063	P	CAMP CDR	2,426 SF	(A)
1065	P	CAMP CDR	2,426 SF	(A)
1066	P	CAMP CDR	2,426 SF	(A)
1068	P	CAMP CDR	2,426 SF	(A)

SUMMARY:

Adequate: 12,130 SF Substandard: 0 SF

> 12,130 SF TOTAL 12,700 SF BFR

> > 570 SF DEFICIENT

NOTE: Negligible deficiency.

CATEGORY CODE: 610-73	 7,904 SF
COMPANY HEADOUARTERS	IC 14

DESCRIPTION: This facility provides office space to carry out the day-to-day company administrative duties of company and battery sized units.

ASSETS:

1001	P	CAMP CDR	5,500 SF	(A)
1017	P	CAMP CDR	2,205 SF	(A)

SUMMARY:

Adequate: 7,705 SF Substandard: 0 SF

> 7,705 SF TOTAL 7,904 SF BFR

199 SF DEFICIENT

NOTE: Negligible deficiency.

CATEGORY CODE: 690-10 1 EA FLAGPOLE IC 14

DESCRIPTION: This structure provides six flagpoles for the Camp Headquarters, firing ranges, and for general use.

ASSET:

1001B P CAMP CDR 1 EA (A)

SUMMARY:

Adequate: 1 EA Substandard: 0 EA

> 1 EA TOTAL 1 EA BFR

> > O EA DEFICIENT

NOTES:

CATEGORY CODE: 721-11 210 PN BEQ E1-E4 IC 15

DESCRIPTION: This facility provides berthing space for enlisted personnel in the grades of E1-E4.

ASSETS:

 1014
 P
 CAMP CDR
 58 PN (S)

 1016
 P
 CAMP CDR
 58 PN (S)

 1019
 P
 CAMP CDR
 58 PN (S)

SUMMARY:

Adequate: 0 PN Substandard: 174 PN

174 PN TOTAL

210 PN BFR

36 PN DEFICIENT

NOTES: Construct 105 room BEQ, FIP MC-6010-01, JFY88 (BEQ/BOQ Bldg). Demolish Bldgs. 1014, 1016 and 1019.

CATEGORY CODE: 721-12

18 PN

BEQ, E-5

IC 15

DESCRIPTION: This facility provides berthing spaces for enlisted personnel in the grade of E-5.

ASSETS:

 1014
 P
 CAMP CDR
 10 PN (S)

 1016
 P
 CAMP CDR
 10 PN (S)

 1019
 P
 CAMP CDR
 10 PN (S)

SUMMARY:

Adequate:

0 PN

Substandard: 30 PN

30 PN TOTAL

18 PN BFR

22 PN EXCESS

NOTE: See Notes under CC 721-11.

CATEGORY CODE: 721-13

12 PN

BEO, E6-E9

IC 15

13%

p 24

1.9

DESCRIPTION: This facility provides berthing spaces for enlisted personnel in the grades of E6-E9.

ASSETS:

1002	P	CAMP	CDR	4	PN	(5)
1003	P	CAMP	CDR	4	PN	(S)
1.004	P	CAMP	CDR	4	PN	(S)
1005	P	CAMP	CDR	4	PN	(S)
1007	P	CAMP	CDR	4	PN	(S)

SUMMARY:

Adequate:

20 PN

Substandard: 0 PN

20 PN TOTAL

12 PN BFR

8 PN EXCESS

NOTES: See notes under CC 721-11. All buildings to be converted to cabanas (CC 740-81) unprogrammed.

CATEGORY CODE: 722-10

216 PN

DINING FACILITY (DETACHED) EM

IC 15

<u>DESCRIPTION</u>: This category code is for closed dining facilities for unaccompanied personnel.

ASSET:

1012 P CAMP CDR

180 PN (A)

SUMMARY:

Adequate:

180 PN

Substandard:

0 PN

180 PN TOTAL

216 PN BFR

36 PN DEFICIENT

NOTE:

CATEGORY CODE: 724-11

15 PN

BOQ W01-02

IC 15

DESCRIPTION: This facility provides quarters for officer personnel of grades W01-02.

ASSETS:

1008 CAMP CDR 4 PN (S)

1009 CAMP CDR 4 PN (S)

SUMMARY:

Adequate: 8 PN

O PN

Substandard:

8 PN TOTAL

15 PN BFR

7 PN EXCESS

NOTES: Construct 15 Rm, FIP MC-6010-01, JFY88 (BEO/BOO/Rec Bldg). Bldgs 1008 and 1009 to be converted to cabanas (CC 740-81) unprogrammed.

750 SF CATEGORY CODE: 730-20 IC 16 POLICE STATION

DESCRIPTION: This facility houses the military police force at Camp Henoko, to provide security, law enforcement and detention areas.

ASSETS:

1052 P CAMP CDR

CAMP CDR 1052

1,000 SF (S) 870 SF (A)

SUMMARY:

870 SF Adequate:

Substandard: 1,000 SF

1,870 SF TOTAL

750 SF BFR

1,120 SF EXCESS

NOTE:

CATEGORY CODE: 730-25

164 SF IC 16

GATE/SENTRY HOUSE

designed to

This facility is DESCRIPTION: provide shelter for gate guards.

ASSETS:

81 SF (A) CAMP CDR 1000 P 81 SF (A) 1075 CAMP CDR 68 SF (A) 1087 CAMP CDR 1100 CAMP CDR 30 SF (A)

SUMMARY:

260 SF Adequate:

Substandard: 0 SF

260 SF TOTAL

164 SF BFR

98 SF DEFICIENT

NOTE:

CATEGORY CODE: 730-36 LUNCH/LOCKER ROOM 924 SF IC 16

DESCRIPTION: This facility is generally provided only to support industrial operations and requires specific justification. It is required as a smoke room/lounge for 30 ammunition handlers.

ASSET:

1073 P

924 SF(A)

SUMMARY:

Adequate: 924 SF Substandard: 0 SF

924 SF TOTAL

924 SF BFR

CAMP

O SF DEFICIENT

NOTE:

CATEGORY CODE: 730-65

2,590 SF

FALLOUT SHELTER

IC

DESCRIPTION: The Department of Navy policy on development and utilization of fallout shelters is contained in OPNAV Instruction 3050.21A and is implemented through procedures set forth in NAVFAC Instruction 3050.5B

ASSETS:

 1006
 P
 CAMP CDR
 681 SF (A)

 1013
 P
 CAMP CDR
 1,299 SF (A)

 1015
 P
 CAMP CDR
 1,299 SF (A)

 1018
 P
 CAMP CDR
 1,299 SF (A)

ASSET: 1011

XAWO

100 SF (A)

SUMMARY:

Adequate: 100 SF

Substandard: 0 SF

100 SF TOTAL 400 SF BFR

300 SF DEFICIENT

NOTE: Construct 300 SF, unprogrammed AAFES NAF

CATEGORY CODE: 740-30

100 SF

EXCHANGE AUTO REPAIR STATION

IC 16

DESCRIPTION: The Okinawa Area Exchange (OWAX) requires maintenance facilities to service their vehicles and equipment.

ASSET:

1010D

₽

XAWO

90 SF (A)

SUMMARY:

Adequate: Substandard: 90 SF

0 SF

90 SF TOTAL

100 SF BFR

10 SF DEFICIENT

NOTE: Negligible deficiency.

CATEGORY CODE: 740-54 4,500 SF
RECREATION BUILDING IC 16

DESCRIPTION: This is a multi-purpose facility providing space for morale, welfare recreational activities at installations with military strength of less than 500.

ASSET:

1017

CAMP CDR

2.759 SF (A)

SUMMARY:

Adequate:

2,759 SF

Substandard:

. 0 SF

2,759 SF TOTAL

4,500 SF BFR

1,741 SF DEFICIENT

Construct 4,500 SF, JFY88 FIP, MC-6010-10

CATEGORY CODE: 740-81

units

RECREATION LODGE

IC

DESCRIPTION: This facility supports E1-E5 enlisted personnel at all MCB Camp Butler camps, and all personnel and dependents on accompanied tours.

ASSET:

SUMMARY:

Adequate:

0 units

Substandard: 0 units

0 units TOTAL

0 units BFR

O units Deficient

NOTE: BFR to be developed; pending information from Air Force.

SUMMARY:

Adequate:

4.578 SF

Substandard:

0 SF 4.578 SF TOTAL

2,590 SF BFR

1,988 SF EXCESS

NOTE:

CATEGORY CODE: 730-76

KENNEL

IC 16

A kennel may be provided for DESCRIPTION: station assigned working dogs.

ASSET:

1056 CAMP CDR Р

99 SF (I)

SUMMARY:

Adequate:

0 SF

Substandard:

0 SF

O SF TOTAL

O SF BFR

0 SF Deficient

NOTE:

CATEGORY CODE: 740-09

400 SF

EXCHANGE SERVICE OUTLETS

IC 16

DESCRIPTION: This facility provides exchange services including a barber shop and laundry.

ASSET:

1011

CWAX

100 SF (A)

SUMMARY:

Adequate: 100 SF

Substandard: 0 SF

> 100 SF TOTAL 400 SF BFR

300 SF DEFICIENT

NOTE: Construct 300 SF, unprogrammed AAFES NAF

CATEGORY CODE: 740-30

100 SF

EXCHANGE AUTO REPAIR STATION

IC 16

DESCRIPTION: The Okinawa Area Exchange (OWAX) requires maintenance facilities to service their vehicles and equipment.

ASSET:

1010D Ρ **OWAX** 90 SF (A)

SUMMARY:

Adequate:

90 SF

Substandard:

0 SF

90 SF TOTAL 100 SF BFR

10 SF DEFICIENT

NOTE: Negligible deficiency.

CATEGORY CODE: 740-54

4,500 SF IC 16

RECREATION BUILDING

DESCRIPTION: This is a multi-purpose facility providing space for morale, welfare and recreational activities at installations with

military strength of less than 500.

ASSET: 1017

CAMP CDR

2,759 SF (A)

SUMMARY:

Adequate: 2.759 SF

Substandard:

0 SF

2,759 SF TOTAL

4,500 SF BFR

1.741 SF DEFICIENT

NOTE: Construct 4,500 SF, JFY88 FIP, MC-6010-10

CATEGORY CODE: 740-81

RECREATION LODGE

units IC

DESCRIPTION: This facility supports enlisted personnel at all MCB Camp Butler camps, and all personnel and dependents on accompanied tours.

ASSET:

SUMMARY:

Adequate:

0 units

Substandard:

0 units 0 units TOTAL

0 units BFR

O units DEFICIENT

NOTE: BFR to be developed; pending information

from Air Force.

CATEGORY CODE: 750-10

5 EA

PLAYING COURTS

IC 16

DESCRIPTION: These facilities provide outdoor courts: a tennis court, volleyball court, basketball court, handball court and badminton court.

ASSETS:

1021 P CAMP CDR 1 EA (A) 1023 P CAMP CDR 1 EA (A)

SUMMARY:

Adequate: 2 EA Substandard: 0 EA

2 EA TOTAL 5 EA BFR 3 EA DEFICIENT

NOTE: Construct three each, unprogrammed NAF.

CATEGORY CODE: 750-20 2 EA PLAYING FIELD 1C 16

DESCRIPTION: This facility provides two softball
fields.

ASSET:

1022 T CAMP CDR 1 EA (A)

SUMMARY:

Adequate: 1 EA Substandard: 0 EA

1 EA TOTAL

2 EA BFR

1 EA DEFICIENT

NOTE: Construct 1 EA, unprogrammed NAF.

APPENDIX L-2

BASE LOADING: PROGRAMMED STRENGTH

	Mar	ines	Otl	ner	Civ		
Non-Rotational Units	Off	Enl	Off	Enl			
3RD MAR DIV							
HQ CO 4TH MAR	21	200	1	3:			
1ST TRACK VEH BN HQ	44	800	2	8			
3RD RECON BN	22.	218	2	13,			
C CO (+), 3RD LAV BN	9	150					
3RD FSSG							
AMMO COMPANY, 3RD SUPPLY BN	16	290					
C CO, 3RD MED BN			1	33			
3RD DENTAL CO			5	4			
TAFDS, WES-17, 1ST MAW		6.		- 16 f			
MCB CAMP BUTLER	3	56					
RED CROSS					15		
USO					1		

	Mari	nes	Otl	1er		
Rotational Units	Off	Enl	Off	Enl	Civ	
1ST TRACK VEH BN	21	545				
4TH.MAR						
INF BN	43	781	2	30		
INF BN	43.	781	2	30		

TOTAL BASE LO	DADING 2063488 HENOKO	17 193 1
CAMP SCHWAB	HENOKO	

NOTE:

Under the planned Unit Deployment Concept, 1/4 is home based at Twentynine Palms while 2/4 and 3/4 is home based at Camp Lejeune. Infantry battalions will rotate from the Second Marine Division Rotation Base on a six month TAD basis.

CAMP SCHWAB/HENOKO SUMMARY

4	Unaccompanied													
	T	otal	λασοι	mpanied	Non-Ro	tational	Rota	tional	Transients/	Billeting				
Grade	MC	Navy	MC	Navy	MC	Navy	MC	Navy	Civilians	Requirements	Notes			
03+	74	15	26	7 7	20	4	28	4	4	60	1			
WO-02	118	2	11	0	28	2	79		· 5	114	2			
	192	17	37	7	48	6	107	4	9	174				
E6-E9	330	19	102	9	. 62	2	166	8	•	238				
E5	339	18	56	6	93	7	190	5		295				
E1-E4	2660	82	17	6	892	33	1751	45		2721	4 A			
	3329	119	175	21	1047	42	2107	58		3254	3			

NOTES:

- 1. BOQ space is also required for one Red Cross and one USO employee and approximately two transient officers (O3 and above).
 - 2. BOQ space is also required for approximately five transient officers (WO-O2).
 - 3. BEQ space requirements for transient enlisted personnel to be determined.

CAMP SCHWAB/HENOKO SUMMARY MARINE CORPS PERSONNEL (NONROTATIONAL)

					OFFI	CERS							ENL	ISTED			
Unit	07+	06	05	04	О3	02/01	WO	Total		E9	E8	Е7	E6	E5	E4	E3-E1	Total
4th Mar, HQ Co		1	2	4	7	3	1	18		1	3	5	25	22	42	107	205
3rd Recon Bn			1	3	9	7	1	21		1	4	4	13	25	48	135	230
1st Track Veh			1	3	41	7	2	17		3	5	7	16	29	46	113	219
3rd LAV, A Co			1	1	2	6		10		1	2	11	12	26	41	123	216 ·
3rd Sup Bn, Ammo Co				1	4	4	7	16		1	5	13	19	38	49	165	290
Wes-17, TAFDS								0					1	1	2	2	·· 6
MCB Butler			1	1		1		3		1	2	4	• 5	8	11	25	56
Total Marines		ī	6	13	26	28	11	85		8	21	44	91	149	239	670	1222
Accompanied		1	5	8	12	6	5	37		7	15	29	51	56	17	-	175
Unaccompanied		ō	1	5	14	22	6	48	4	ī	6	15	40	93	222	670	1047
Married (Info only)		(1)	(5)	(11)	(20)	(14)	(9)	(60)		(7)	(19)	(38)	(72)	(86)	(29)	-	(251)
					MARI	ne core	PS PER	Sonnel	(RO	ratio	NAL)						
Inf. Bn (2/2)		•	1	1.	9	31	1	43		1	8	12	34	64	151	511	781
Inf. Bn (2/6)			1	1	9	31	1	43		1	8	12	34	64	151	511	781
1st Track Veh. Bn				2	4	14	1	21			8	16	32	62	143	284	545
Total Marines			2	4	22	76	3	107		2	24	40	100	190	445	1306	2107

NAVY PERSONNEL (NONROTATIONAL)

					OFFI	CERS						ENL.	ISTED			
<u>Unit</u>	07+	06	05	04	03	02/01	WO	Total	<u>E9</u>	E8	Е7	E6	E5	E4	E3-E1	Total
4th Mar, HQ Co	•			1	2			3		1	•			1	1	3
3rd Recon Bn	•		4,		1	1		2		•	1		2	3	7	13
1st Track Veh. Bn HQ				1	1			2			1		1	1	5	8
3rd Med Bn, C Co						1,		1		1	1	6	9	13	3	33
3rd Den Co				1	4			5					1	. 1	2	· 4
Total Navy				3	8	2		13		2	3	. 6	13	19	18	61
Accompanied				2	5	0		7		2	3	4	6	4	24	19
Unaccompanied				1	3	2		6		ō	ō	2	7	15	18	42
					1					3						
Married (info onl	γ)			(3)	(6)	(1)		(10)	i	(2)	(3)	(5)	(8)	(6)	٠	(24)
						NAVY P	erson	NEL (ROTAT	'IONAL)							
Inf. Bn (2/2)				1	1			2	٤.	i	2	2	3	6	19	32
Inf. Bn (2/6)				1	1			2			2	2	2	5	15	26
Total Navy				2	2			4			4	4	5	11	34	58

/ Facility Support Requirements

Unit: 4th Marines, HQ Co.

	Exist	1a-		jec-		om-	rojected Unaccom-	
Grade	tion MC		tion			ied	pan.	
Grade	MAC	Navy	MC	Navy	MC_	Navy	MC	Navy
07-10								
06	1		1					
05	2		2					
04	5	1	4	1				
03	8	2	7	2				
01/02	4		3					
WO	$\frac{1}{21}$		_1					;
	21	3	18	3				
77.0	-				4		_	· ,
E9	. 1	-	1		1		0	_
E8	2	1	3	1	2	1	1	0
E7	.3		5		3		2	
E6	15		25		14		11	
E5	13		22		8		14	
E4	25	1	42	1	3		39	1
E1-3	64	2	107	1	·		107	1
	123	4	205	3	31	1	174	2

Unit: 3rd Recon. Bn.

	Exist Popu tion	la-	FS: Pro: tio:	jec-	roject Acco pani	m	Projec Unac	
Grade	MC			Navy	MC	Navy	MC	Navy
07-10							•	
06 '								
05	1		1					
04	2		3					
03	6		9	1				
01/02	5		7	1				•
WO			1					
	14		21	2				
E9	1		1		1		0	ì
E8	4		4		3		1	
` E7	3	1	4	1	3	1	. 1	
E6	11		13		7		6	
E5	22	2	25	2	10	1	15	· 1
E4	42	4	48	3	4	1	44	· 2
E1-3	118	8	135	7			135	7
	201	15	230	13	28	3	202	10

Unit: 1st Track Veh. Bn. HQ

	Exist Popu tion	la-	FSR Proje tions	ec-	roject Acco pani	m-		cted ccom- nied
Grade	MC	Navy	MC I	lavy	MC	Navy	MC	Navy
07-10								
06								
05	1		. 1					64
	1		1					
04	4	_	3	1				
03	5	1	4	1				
01/02	8		7					
WO	3		2				,	
	$\frac{3}{21}$	1	17	2				
E9	3		3		, 2		. 1	
E8	7		5		3		2	
E7	9	1	7	1	. 5	1	2	•
E6	20		16		9		: 7	
E5	37	2	29	1	11		18	. 1
E4	59	3	46	ī	3		43	
E1-3	145	10					113	· 1
12.T?	280	$\frac{10}{16}$	$\frac{113}{219}$	<u>5</u> 8	33 ⁽⁵	<u> </u>	186	5 7
	Z00	10	413	0	23		T00	,

^{*} Marine Corps distribution is based on the Bn. $HQ^{\dagger}s$ T/O vice the existing population.

Unit: 3rd LAV Bn., A. Co.

	Existing* Popula- tion		FSR** Projec- tions	Projected Accom- panied		Projected Unaccom- panied		
Grade	MC	Navy	MC Navy	MC	Navy	MC	Navy	
07-10								
06								
05			1				ē	
04			1					
03			2 .					
01/02			6					
WO								
			10		•			
E9			1	1		0		
E8			2	2		0		
E7			11	7		· 4		
E6			12	7		5		
E5			26	10		16		
E4			41	3		38		
E1-3			123			123		
			216	30		186		

^{*} Quantities unknown; not currently assigned to Okinawa.

^{**} Quantities developed by assuming distribution will be similar to 1st Track Veh. Bn.

Unit: 3rd Supply Bn, Ammo Co. (Henoko)

•	Exist Popu tion	1a-	FSR Proje tions		om- Unac	ted com- ied
Grade	MC	Navy	MC N	avy MC	Navy MC	Navy
07-10						
06						
05	•					
04	1		1	1	0	
03	4		4	2	2	
01/02	4		4	1	3	
WO	8		7	. 3 7	<u>4</u> 9	
	17		16	7	9	
E9			1	1	0	
E8			5	3	2	
E7			13	9	4	
E6 .			19	10	9	
E5			38	14	24	•
E4			49	3	46	
E1-3			165		165	
			290	40	250	

^{*} Distribution approximated based on the distribution of the entire 3rd Supply Bn., which is also located at Camp Hansen and Kinser.

Unit: 3rd Med Bn., C. Co.

	Existing Popula- tion	FSR* Projec- tions	Projected Accom- panied	Projected Unaccom- panied		
Grade	MC Navy	MC Navy	MC Navy	MC Navy		
07-10						
06						
05				,		
04						
03						
01/02		1				
WO						
		1				
				17		
E9						
E8		1	1			
E7		1	1			
E6		6	4	<u>; </u>		
E5		9	4	t, 5		
E4		13	. 3	: 10		
E1-3		_3		_3		
		33	13	20		
				,		

^{*} Distribution approximated based on known conditions and the distribution of the entire 3rd Med. Bn., which is also located at Camps Hansen and Courtney.

Unit: 3rd Dental Co.

Existing Popula- tion		la-	FSR* Projec- tions	Proje Acc pan		Projected Unaccom- panied		
Grade	MC	Navy	MC Navy	MC	Navy	MC	Navy	
07-10								
06								
05								
04			1					
03			4					
01/02								
WO								
			5					
E9								
E8								
E7								
E6						7 4		
E5			1		1			
E4			1				1	
E1-3			$\frac{2}{4}$		1	• • • • • • • • • • • • • • • • • • • •	$\frac{2}{3}$	

^{*} Distribution approximated based on known conditions and the distribution of the entire 3rd Den. Bn., which is also located at Camps Foster, Kinser, Courtney and Hansen.

Unit: TAFDS, WES-17, MAW

	Existing Popula- tion		FSR* Projec- tions	Projec Acce pan	om-	Projected Unaccom- panied		
Grade	MC	Navy	MC Navy	MC .	Navy	MC	Navy	
07-10	,							
06								
05								
04								
03,								
01/02								
WO						*		
E9								
E8								
E7								
E6			1	1		0		
E5			1			1		
E4			2			· 2		
E1-3			$\frac{2}{6}$	ī		<u>2</u> 5		

^{*} Distribution approximated based on the distribution of the entire WES-17, which is also located at Camp Foster.

Unit: MCB Camp Butler

	Exist Popu tion	la-	FSR* Projec- tions	Projec Acco pan:	om-	Proje Unac pan	com-
Grade	MC	Navy	MC Navy	MC	Navy	MC	Navy
07-10 06							
05			1 .				
- 04			1				
03							
01/02			1				٠.
WO			3		-		
E9			1	1			
E8			2	2		0	
E7			4	2		2	
E6			5	3		2	,
E5			8	3		5	
E4			11	1.		10	
E1-3	* :		25			25	
			56	12		43	•

^{*} Mar. Off. distribution approximated based on known conditions; assumed Mar. Enl. distribution is similar to distribution of HQ Bn., 3rd Mar. Div., personnel.

Unit: 1st Track Veh. Bn. (- HQ)

	Exist Popu tion	la-	FSR Projec tions	- Ac	ected ecom- enied	Projec Unac pan	
Grade	MC	Navy	MC Na	vy MC	Nav	y MC	Navy
07-10							
06							
05	ı						11 1
04	2		2				- 3
03	4		4				
01/02	17		14				70.0
WO	2		1.				
	25		$\frac{1}{21}$		V		
E9						1	
E8	10		8	1		8	ċ
E7	21		16			16	
E6	41		32	•		32	i .
E5	79		62			62	1,2
E4	183		143			143	
E1-3	364		284		•	284	م. او د
,	698		545			545	

^{*} Marine Corps distribution is based on the Bn. HQ's T/O vice the existing population.

Unit: 4th Marines Inf. Bn. (2/2)

	Exist	ing	FSR	1	Projec	ted*	Proje	cted
	Popu	la⊶	Pro	jec-	Accom	-	Unacc	om-
	tion		tio	ns	panie	d	panie	d
Grade	MC	Navy	MC	Navy	MC	Navy	MC	Navy
07-10								
06								
05	1		1				1	
04	1	1	1	1			1	1
03	9	1	9	1			9	1
01/02	31		31				31	
WO	$\frac{1}{43}$		1				_1	
	43	2	43	2			43	2
E9	1		1				1	
E8	7		8				.8	
E7	11	2	12	2			12	2
E6	31	2	34	2			34	2
E5	58	3	64	3			64	3
E4	138	6	151	6			151	6
E1-3	466	19	511	19			511	19
	712	32	781	32	•		781	32

^{*} No accompanied tours since the Battalion is rotational.

Unit: 4th Marines Inf. Bn. (2/6)

	Exist Popu tion	la-	FSR Proj tio	ec-	Projected Accom+ panied	Projec Unac pan	com-
Grade	MC	Navy	MC	Navy	MC Navy	MC	Navy
07-10 06							
05	1		1			1	
04	1	1	1	1		1	1
03	9	1	9	1		9	1
01/02	31		31			31	
WO	1		1			1	
	$\frac{1}{43}$	2	43	2		43	2
E9	1		1			1	
E8	7		8			8	•
E7	11	2	12	2		12	2
E6	31	2	34	2		34	2
E5	58	3	64	2	•	64	2
E4	138	6	151	5		151	5
E1-3	466	<u>19</u>	<u>511</u>	<u>15</u>		<u>511</u>	15
	712	32	781	26		781	26

^{*} Quantities not included in the 3rd Mar. Div. "Personnel Status Summary", therefore, used 2nd Bn., 2nd Marines information.

CAMP SCHWAB/HENOKO EXISTING ASSETS

				<u>c</u>	onfigura	tion							Air Con	ditioning	
Bldg.	Year		Billeting		Single	Two-Room	No. of	Room	Module		throoms		Window	Central	
No.	Built	Cond.	Area (GSF)	Bay	Rooms	Modules	Rooms	Size (SF)	Size(SF)	Indiv.	Shared	Gang	Unit	System	Note
										*					
BEQ:	1050	~	1 250					100						•	
1002	1959	s	1,352		х		4	180			Х		· X		1
1003	1959	s	1,352		х		4	180			X		х		1
1004	1959	ន	1,352		X		4	180			x		X		1
1005	1959	s	1,352		X		4	180			Х		x		1
1007	1959	S	1,352		X		4	180			X		x		1
1014	1959	s	11,975	X	х		11	200				X			2,3
1016	1960	S	12,275	X	Х		11	200				, X			2,3
1019	1960	S	12,475	X	X		11	200				Х			2,3
3304	1959	S	6,420	X								Х			3
53306	1959	S	6,420	Х								X			. 3
3307	1959	S	6,420	X								Х			3
3314	1959	S	6,420	Х								Х			3
3316	1959	S	6,420	Х								Х			3
3318	1959	S	6,420	Х								х			3
3323	1959	S	6,420	x								X			3
3326	1959	s	(6,420)	x								Х			3,4
3327	1959	s	6,420	x					· .			Х			3
3330	1983	A	62,700		×		126	70	• •	x	¥.			x	
3332	1985	Ä	62,724		X		125	270		X				x	
3404	1959	S ·	(6,420)	х						. •••		x			3,4
3406	1959	s	6,420	x								x			3
3407	1959	5	6,420	ж								x		1	3
3409	1959	s	(6,420)	x								X		•	
3411	1959	5	6,420	x								X			3,4
3412	1959	s	(6,420)	X								X			3
3416	1979	λ	24,000	X			100	180							3,4
3421	1959		6,420				100	190				, X		X	_
		s		X								X			3
3422	1959	s	6,420	X				150				X			3
3423	1979	y	24,000		X		100	180				х		х	1
3425	1984	y	62,724		X		125	270		X				'X	•
3428	1959	6	6,420	X								X		,	3
3429	1959	S	6,420	X						i		х	-		3
3431	1959	\$.	6,420	X								X			3
3432	1959	8	6,420	X								, Х			3
3433	1959	S	6,420	X.								х			3
3507	1959	ន	6,420	X				•	•			X			3
3508	1959	S	3,570	х								Х			3
3509	1959	S	6,420	X		•						X			3
3517	1959	S	6,420	X X					•			Х			3
3518	1959	S	6,420	X		•	•					· × ×			3
3521	1959	S	6,420	X								人			3

CAMP SCHWAB/HENOKO EXISTING ASSETS

				. ****	onfigura		_					34	Air Con	ditioning	L··
Bldg.	Year		Billeting	Open		Two-Room	No. of	Room	Module		Bathrooms		Window	Central	
No.	Built	Cond.	λrea (GSF)	Bay	Rooms	Modules	Rooms	Size(SF)	Size(SF)	Indiv.	Shared	Gang	Unit	System	Note
pro.															****
BEQ: 3522	1959	ຣີ	6,420	х								x			3
	1959		6,420	X			•					X		•	3
3523		S										X			- 3
3524	1959	s	6,420	X								v	:		3
3528	1959	S	6,420	X								X		ě.	3
3529	1959	S	6,420	X						1	F	x	•	5 -	3
3532	1959	S	6,420	X								x		10 mg/	3
3533	1959	ន	6,420	Х								x		:	
3603	1959	ន	6,420	X											3
3606	1959	S	6,420	Х							1	X X		•	
3607	1959	8	6,420	X								15 X		****	3
3608	1959	8	6,420	Х							٠.	X		2 4	3
3609	1959	S	6,420	Х								X			3
3614	1959	S	6,420	Х								Х		+ 4	3
3619	1959	S	6,420	Х								X	4,	N 1 .	3
3621	1959	S	6,420	x								X			3
3622	1959	S	6,420	X								X	74		3
3623	1959	ន	6,420	X								Х			. 3
3624	1959	8	6,420	Х								Х	- 5,		3
3630	1903	Α	62,700		x		128	270'		X		,		X	3
3634	1959	8	6,420	х				,				X		+ =	- 3
3636	1959	8	6,420	X					•			X		. 13	3
3637	1959	B	6,420	х								:X	.,		3
3638	1959	8	6,420	x							,	X	•;		3
3639	1959	B	6,420	х								, X	*1		3 0 3
		Total:	634,463									* 4 ± 1			
		,,,	11					•			ř	3 ₄ ks			
BOQ											4	120 4	1		
1008	1959	ន	1,352		X		4	180			ж		×		1
1009	1959	8	1,352		X		4	180			х		X.		1
3214	1959	S	6,420			x	20	225	580		X	4,	•		. 5
3216	1959	8	6,420			×	20	225	500		x	1 4 4 4 5 T	4.	•	5
3218	1959	S	6,420			ж	20	225	580		х				5
3219	1959	8	6,420			X	20	225	580		x				
3221	1959	5	6,420			X	20	225	580		X	P _{col} t to		•	5 5
3223	1959	S	6,420			×	20	225	580		X	, # · ·			5
3224	1959	S	6,420			x	20	225	580		x				5
3224	1959	s	6,420			X	20	225	580		· •		,		5
3227	1959	S	6,420			X	20	225	580				*	V	5
3329	1959	S	6,420			x	20	225	580		×		,	24 - 15° c	. 5
3349	2000		66,904									a, Singar	-		
		TOCAT	1 001204								\$* ₁	1.5			

NOTES:

- 1 "Hootch" consists of four rooms, two heads, lounge and kitchen. If centrally air-conditioned, the hootch will be suitable for billeting officers or enlisted personnel.
- 2 BEQ is substandard due to gang heads, lack of air conditioning, and the majority of the space being open-bay billeting.
- 3 BEQ cannot economically be upgraded to DOD criteria.
- 4 BEQ currently being excessed; to be demolished by FY86 OK609MS.
- BOQ is substandard due to the building's physical condition and the lack of air-conditioning. Due to MCON funding limitations and economic reasons, it is advisable to replace the facility vs. upgrade to DOD criteria.

APPENDIX L-3 PLANT INVENTORY

Local Name

Scientific Name : Pandanus Odorastissimus L.f.

Place of Origin : Asia (The Torrid Zone)

Micronesia

Northern Australia and Okinawa

Amami Island

Morphology

: Evergreen Shrub

Blossoming Season:

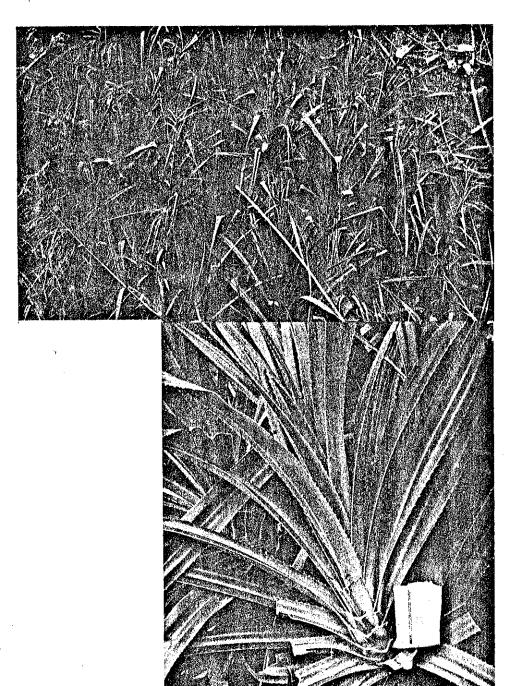
Soil

: Able to Witstand Saline

Environment

Remarks

: Good Wind Resistance



Local Name : Keinubiwa

Scientific Name : Ficus Erecta Thumb

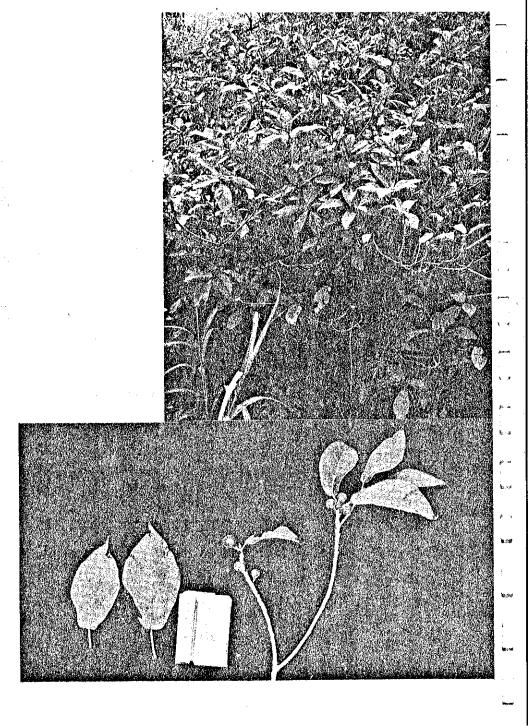
Place of Origin :

Morphology : Evergreen Tree

Blossoming Season: March

<u>Soil</u>

Remarks : Fodder



: Ginnemu

Scientific Name : Leueaena Leueocephalade Wit

Place of Origin : America (The Torrid Zone)

Morphology

: Evergreen Shrub

Blossoming Season: Annually

Soil

Able to Withstand Saline

Environment

Remarks

Green Manure

Decidious (By Strong Wind)



: Gunbaihirugao

Scientific Name : Ipomoea Pes-caprae

Place of Origin : Southern Japan

Morphology

: Vine

Blossoming Season:

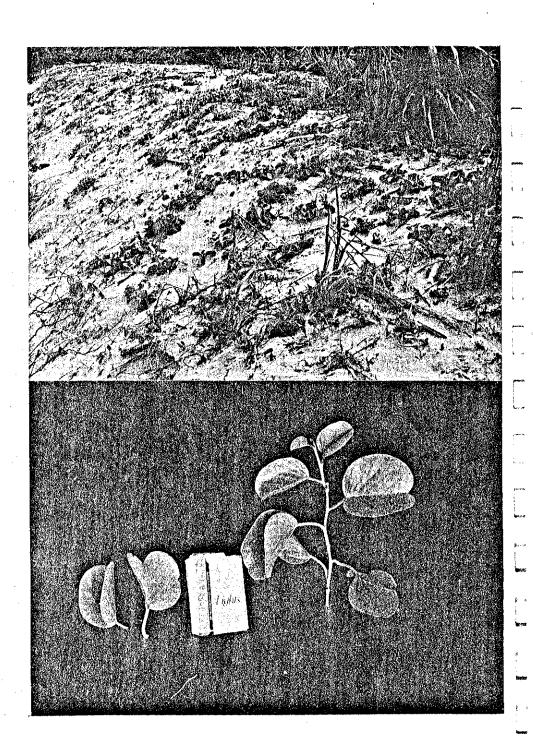
Soil

Sandy

Remarks

: Ground Cover Plant

(Sea Side)



: Hamahisakaki

Scientific Name : Eurya Emarginate Makino

Place of Origin : Southern Japan, Taiwan

Morphology

: Evergreen, Shrub

Blossoming Season: November - December

Soil

Normal Growth

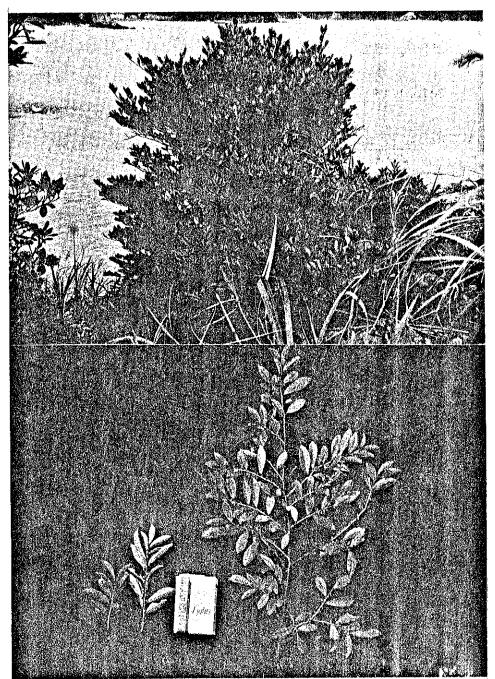
Able to Withstand Saline

Environment

Remarks

: Garden Plant

Green Belt



: Hazenoki

Scientific Name : Rhus Succedanea L.

Place of Origin :

Southern Japan, Taiwan, China,

Thailand, Indonesia, The Himalayas

Morphology

Decidious Tree

Blossoming Season:

April - May

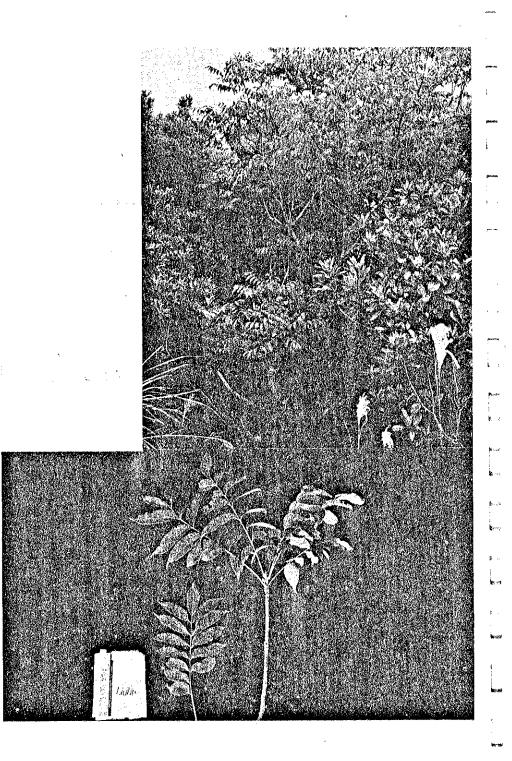
Soil

: Mountainous District

Remarks

: Dyestuffs

Candlewax



Local Name : Himeyuzuriha

Scientific Name : Daphniphyllum Glaucescens
Bl. ssp Teijsmannii Huang

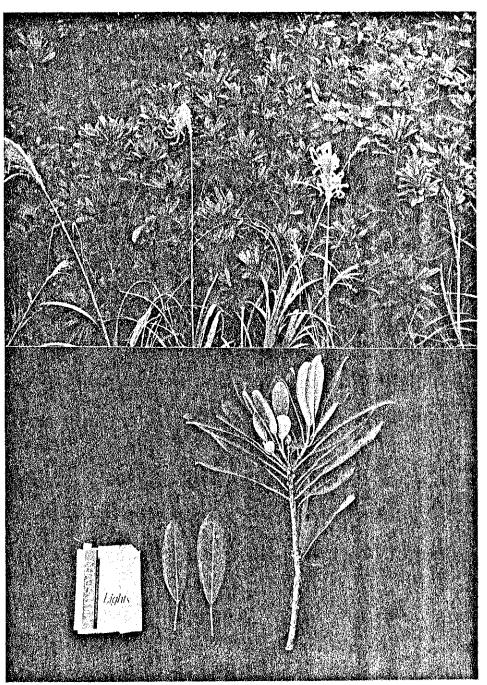
Place of Origin : Japan, Taiwan

Morphology : Evergreen Tree

Blossoming Season: March - May

Soil : Normal Growth

Remarks :



: Hosobawadan

Scientific Name : Ixers Lanceolata Steff

Place of Origin :

Morphology

: Perennial Herb

Blossoming Season: Annually

Soil

Seaside

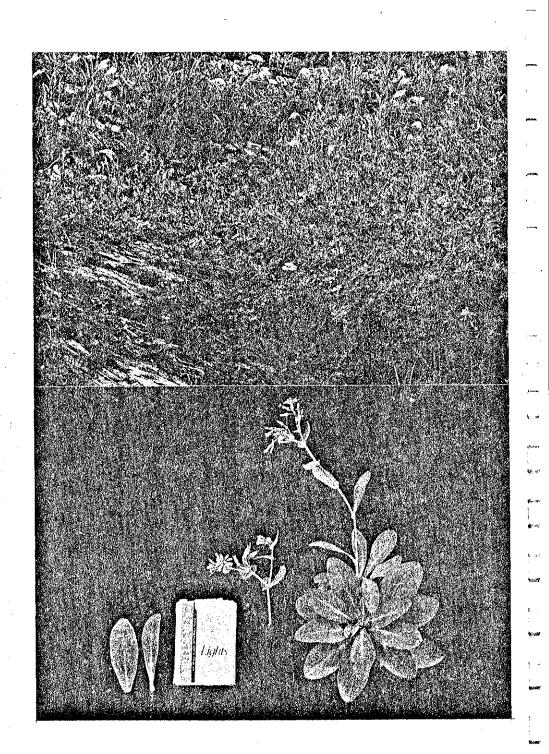
Able to Withstand Saline

Environment

Remarks

Medical Purposes

For Food



: Horaichiku

Scientific Name : Leleba Multiplex Raeusch

Place of Origin :

Morphology

: Grow Gregariously

Blossoming Season:

Soil

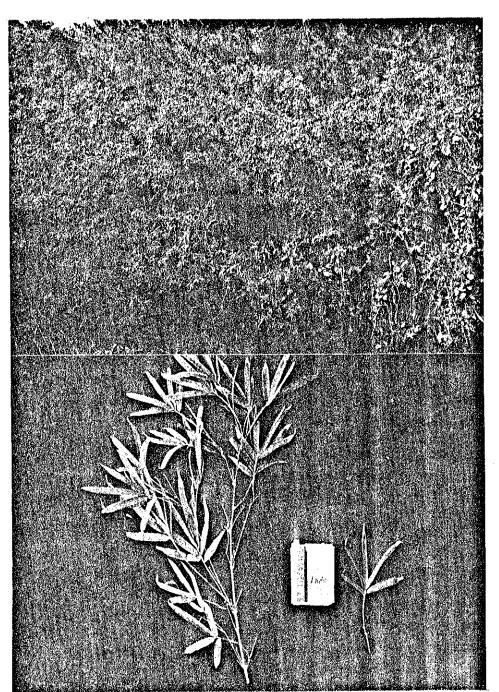
: Normal Growth

Remarks

Good Wind Resistance

Garden Plant

Bamboo Work



: Horutonoki

Scientific Name

: Elaeocarpus Decipens Hemsl

Place of Origin

Japan

Morphology

Evergreen Tree

Blossoming Season:

June - August

Soil

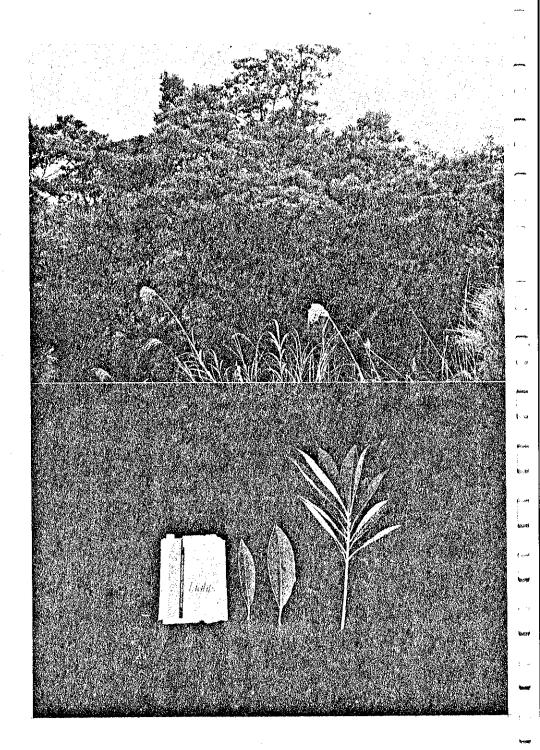
Normal Growth

Remarks

: Garden Tree

Street Tree

Building Materials



: Iju

Scientific Name : Schima Wallichii Korthals ssp.

Liukiuensis Bloemb

Place of Origin : Okinawa, Amami Island

Morphology

: Evergreen Tree

Blossoming Season: April - June

Soil

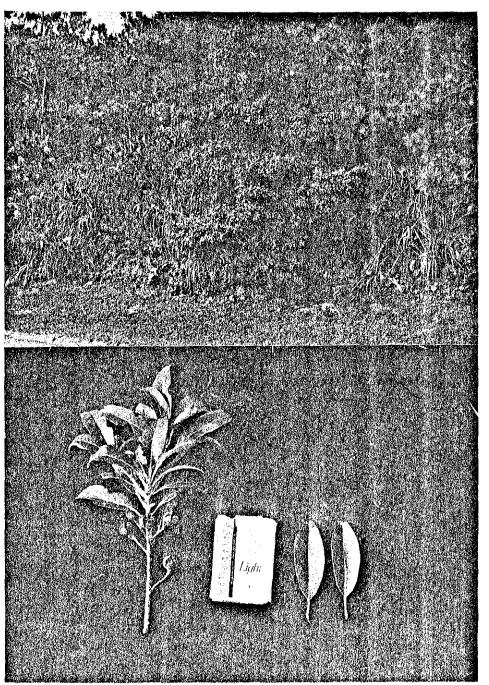
: Affinity, Acidify Soil

Remarks

Garden Tree

Street Tree

Dwarf Tree



Oohamabo

Scientific Name : Hibiscus Tilliacevs L.

Place of Origin : The Torrid Zone

Morphology

: Evergreen Shrub

Blossoming Season: June - August

Soil

Normal Growth

Able to Withstand Saline

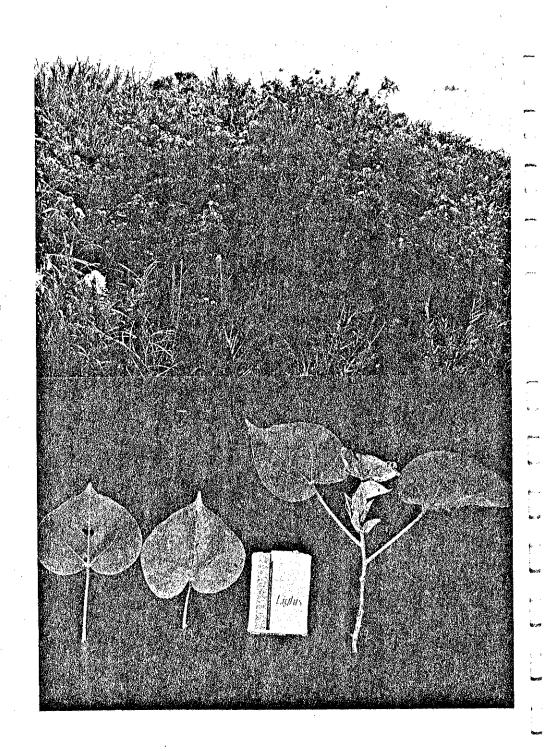
Environment

Remarks

: Garden Plant

Green Belt

Good Wind Resistance



Okinawa Sharinbai (Mokkokumodoki)

Scientific Name : Var Insularis Hatusima

Place of Origin : Southern Japan

Morphology : Evergreen Shrub

Blossoming Season: February - March

Soil : Mountainous District

Able to Witstand Saline

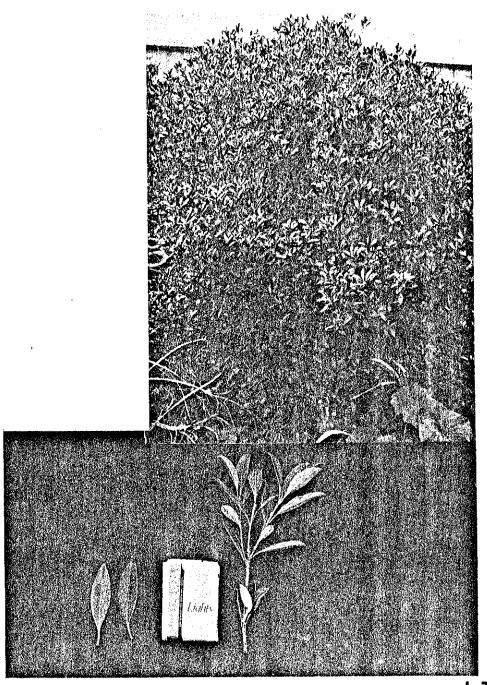
Environment

Remarks

Garden Plant

Green Belt

Dyestuffs



: Okinawagiku

Scientific Name : Aster Miyagii Koidz

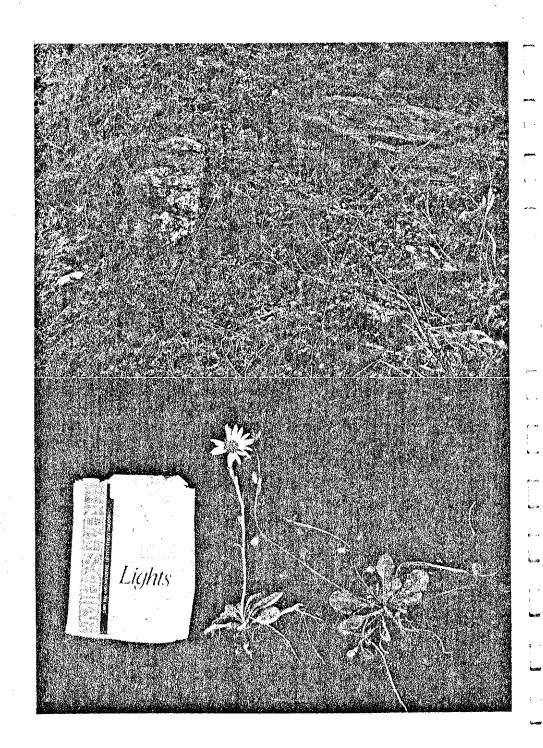
Place of Origin : Okinawa

Morphology : Perennial Herb

Blossoming Season: October - December

Soil : Crack of the Rock

Remarks : Ground Cover Plant



: Ryukyumatsu

Scientific Name : Pinus Luchuensis Mayr

Place of Origin : Okinawa

Morphology

: Conifer

Blossoming Season: February - March

Soil

: Normal Growth

Remarks

Garden Tree

Street Trees

Good Wind and Sand Resistance



: Ryukyu Susuki

Scientific Name : Miscanthys Sinensis Anders

Place of Origin

Okinawa

Morphology

: Grow Gregariously

Blossoming Season: November - December

Soil

: Normal Growth

Remarks



: Shimafujibakama

Scientific Name : Eutatorium Luchense Nkai

Place of Origin :

Morphology

: Evergreen Shrub

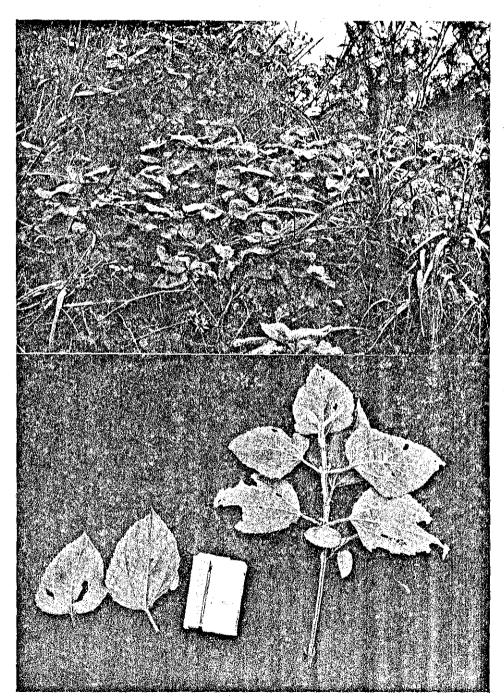
Blossoming Season:

Soil

Seaside

Remarks

Fodder



Local Name Tabunoki

Scientific Name : Persea Thunbergii Kosterm

Place of Origin Japan, Taiwan, China, Southern Korea, Philippines

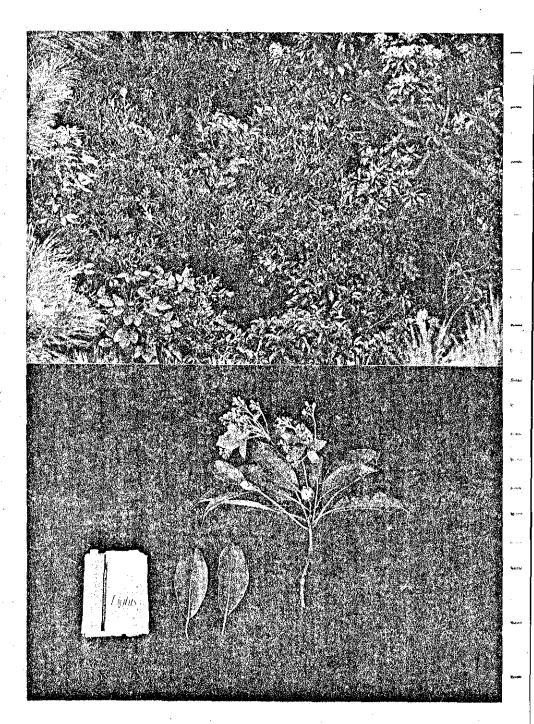
Morphology Evergreen Tree

Blossoming Season: January - March

Mountainous District Soil

Remarks Garden Tree

Park Tree



Local Name : Takawarabi

Scientific Name : Cibotium Barometz j.s.m.

Place of Origin : Southern Japan, Taiwan, Southern

China, Malaysia, Thailand and

India

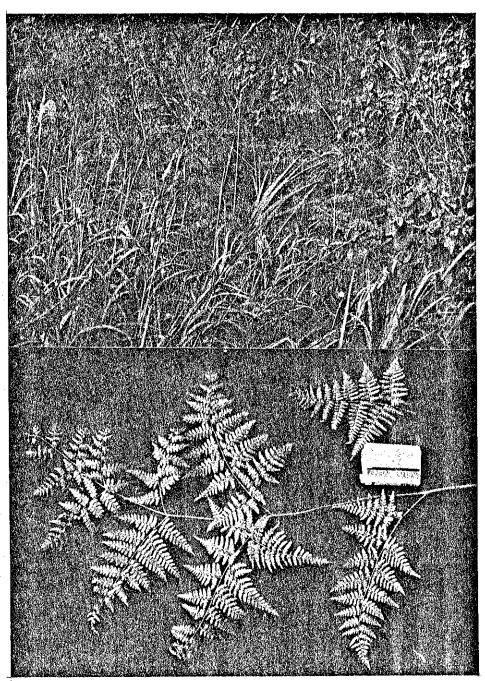
Morphology : Perennial Herb

Blossoming Season:

Soil • : Affinity to Shade

Remarks : Garden Plant

For Food



Takanatamame

Scientific Name : Canavalia Cathartica Throu

Place of Origin:

Morphology

Evergreen Vine

Blossoming Season: June - July

Soil

: Mountainous District

Remarks



: Terihanobudo

Scientific Name

: Ampelopsis Breuipedunculata

Trauts

<u>Place of Origin</u>: Southern Japan, Taiwan, Southern China, Philippine

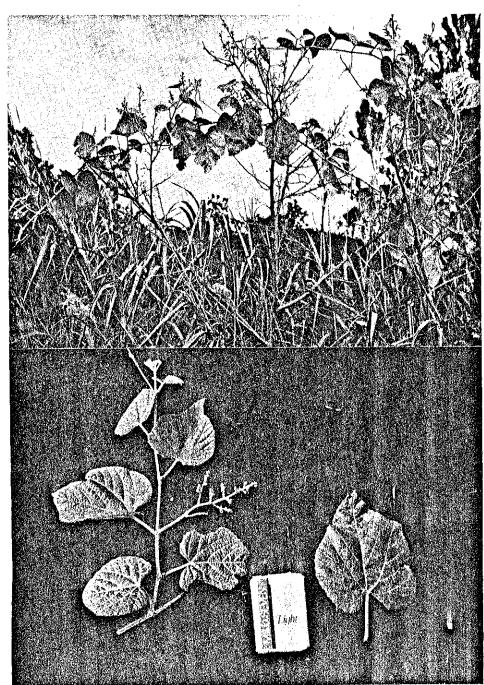
Morphology

Blossoming Season: April - July

Soil

: Mountainous District

Remarks



: Terihakusatobera

Scientific Name : Scaevola Taccada Roxb

Place of Origin

<u>Morphology</u>

Bush

Blossoming Season: March

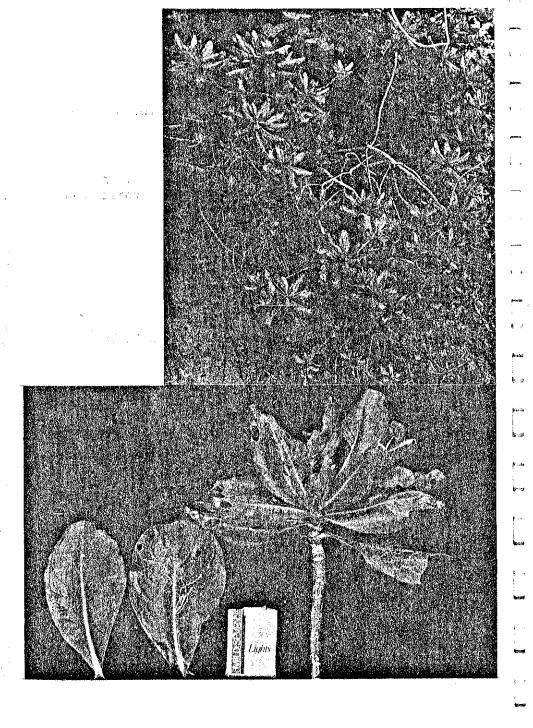
Soil

: Sandy

Remarks

: Good Wind and Sand Resistance

Fodder



Local Name : Tsuwabuki

Scientific Name : Farfigium Japonicum Kitam

Place of Origin : Okinawa

Morphology : Perennial Herb

Blossoming Season: October - January

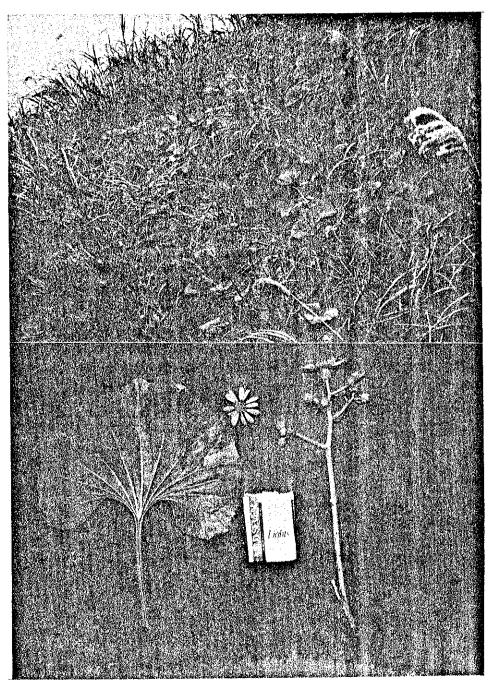
Soil : Normal Growth

Affinity to Sunlight

Remarks : Garden Plant

Medical Purposes

For Food



: Tokiwagyoryu (Mokumao)

Scientific Name

: Casuarino Equisetifolia J.R. & G. Forst

Place of Origin

: Australia

Morphology

: Evergreen Tree

Blossoming Season:

June

Soil

: Sandy - Sandyloam

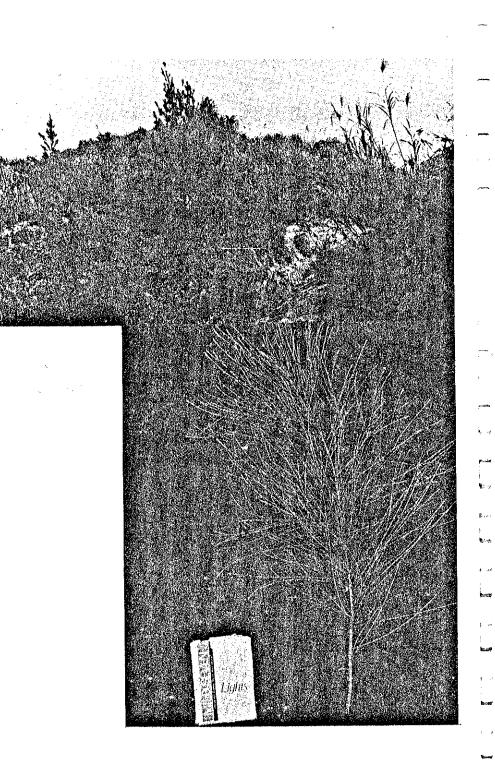
Able to Withstand Saline

Environment

Remarks

Good Wind Resistance

Dyestuffs



Tobera

Scientific Name

: Piftosporum Tobira

Dryand ex Ait.

Place of Origin : Japan, Okinawa, Taiwan, China

Morphology

Shrub

Blossoming Season: February - March

Soil

Normal Growth;

Able to Withstand Saline

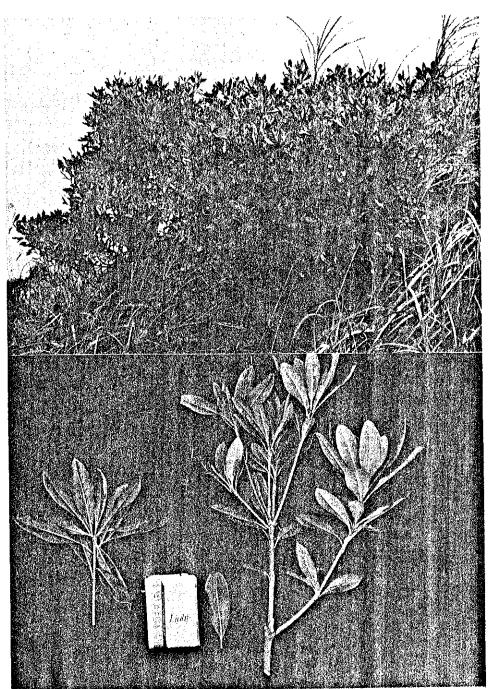
Environment

Remarks

Garden Plant

Medical Purposes

Fodder



: Yabunikkei

Scientific Name

Cinnamomum Japonicum Sieb

Place of Origin

Southern Japan, Taiwan, China,

and Southern Korea

Morphology

: Evergreen Tree

Blossoming Season: March - May

Soil

: Affinity, Acidify Soil and

Sunlight

Remarks

Garden Plant

Park Plant



Local Name : Yoshi

Scientific Name : Phragmites Communis Trin

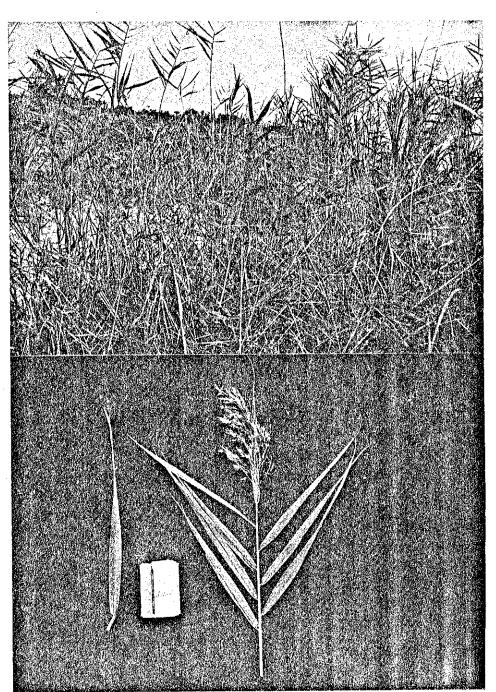
Place of Origin : Southern Japan

Morphology : Perennial Herb

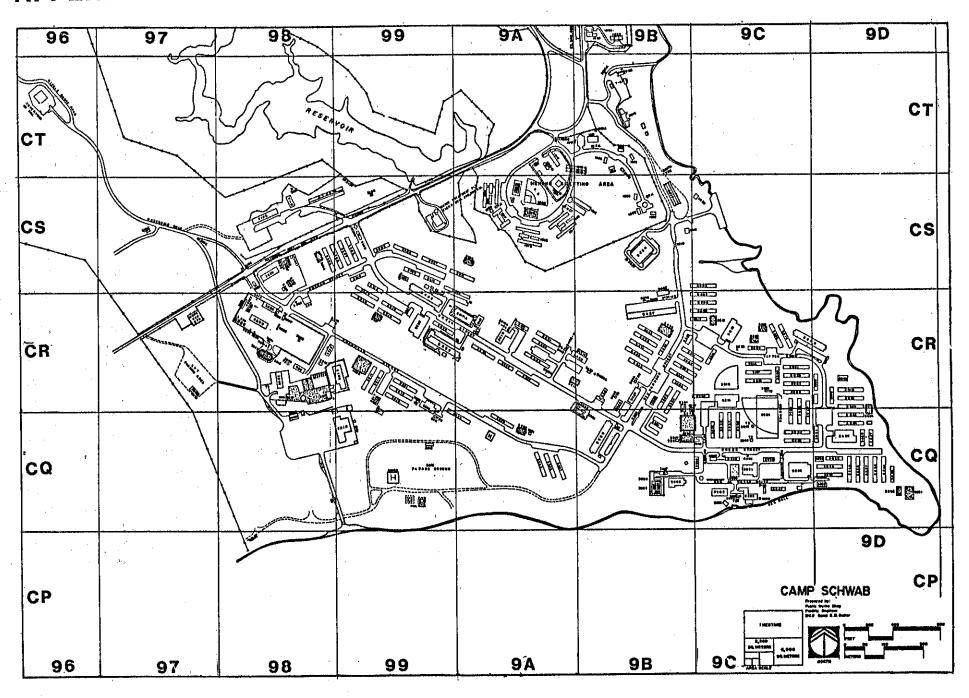
Blossoming Season: November - December

Soil : Seaside Damp Ground

Remarks : Fodder



APPENDIX L-4 MAP KEY AND BUILDING INDEX



PA	GE 142				QUARTE		TESTENGINEER REPORT #02 HOW NUMBER A		•		B1111 DATE	4 1 UCT 19) \$6
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03	magamilitated in stransactions with the co			1959	. الروب بيرية والمحادث المحادث	<u>LF</u>	51,948	84210	WTR/OIST/LM/PUT	1520	FAC MAINT	202164	27.070_
03	•			1959	,	LF	219,517	81230	ELEC DIST LINE	1520	FAC MAINT	202166	27680
03				1959	F 4 10 44 44 44 44 44 44 44 44 44 44 44 44 44	L.L	10	13520	TELEPHONE LINES	1520	EAC_MAINT	202163	27090
Ų3				1959		LF	*1,987	83210	SANITARY SEWER	1520	FAC MAINT	202169	27100
03		======	in i si costa cit sa marteria, altantoni de pre	1 #9		<u>UA</u>	1,550	83130	SEPTC TKZDN FLT	1520	FAC MAINT	202170	27,110
03	·		•	1 959	r	ΚĠ	•	83120	DUTFALL SENR LA	1520	FAC MAINT	202171	27120
(43	7 1981 1 4 1 4 4 1 1			1959	9	LF.	5,162	87110	STORM SEWER	1520.	FAC MAINT	202172	27130.
03	,	•		1960		SY	71,052	85210	PARKING AREAS	1520	FAC MAINT	202176	27140
0.3				1959		<u> </u>	35,179	<u> </u>	STREET LIGHTING	1520	FAC MAINT	202201	27150
03				1959		LF	20,378	87210.	SCRTY FNCE/WALL	1520	FAC MAINT	202203	27160
03			* . - • • • • • • • • • • • • • • • • • • •	1959	reconstructed participants described	\$Y	49,164	85220	SIDEWALK	152,0_	FAC_MAINT	202223 .	27170
0,3				1959	•	LF	534	15430	SEAWALLS	1520	FAC MAINT	202224	27175
03	parameter and a single parameter () and ().		e compose se la properación	1965	no servicio del el fre personalizza de labor della	<u>LF</u>	1,624	87120	DRAINAGE DITCH	1520	FAC MAINT	202815	27180
03				1979		LF	1:065	87215	INTERLOR FENCE	1520	FAC MAINT	207151	27190
0.3	•	\$ -		1,403		<u>Ļ</u> Ą		17960	PARADEZDRL FLD	1520.	FAC MAINT	202610	27210.
03				1.965	4	LA	152	72361	OTHR DET FAL	1520	FAC MAINT	204023	27220
03	, and the second second			1974	 If a living of physical manufacturing high-payages. 	<u>LA</u>	15	83330	GARBAGE STAND	1520	F/C MAINT	204269	27230_
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=1	U3 -	26A		CT98	1980		EA		69010	FLGPL/GDRD/MRKR	1650	SPEC_SER	20,7836,	27241
:A	03	2.7A	•	GF9 _G	1985		SF	50	72320	LATRINE, DET	1650	SPEC SER	207837	27 2+2
•	03	3 162		C\$ 95	Toon	13 - f 1 - 144 12 102 104 42 42 42 42 42 44 44 44 44 44 44 44 44	SF	120	73066	MISC WITHR SHLTR	1901	CP CO SCHWAU	201851	27250
of	٤٥	3 104		C S	1997	F	٦F	409	61010	ADMIN UFF	1210	RANGE DET	20 1947	27260
,	03	310 4A		C\$ 97	1973		<u>EA</u>		69010	FLGPL/BBKD/MKKR	1903	CP CU SCHWAB	<u>204138</u>	27270
	บ3	3 107	2.0	6095	1985	•	MG	1.009	84335	RSRVR FIRE PROT	1530	FIRE DEPT	20/865	27271
	03	3440		CV95	1959		SF	559	73075	PUBLIC TOILET	1210	RANGE DET	_202152	21294
	03	3.110		UV95	1959		SF	450	61010	ADMIN OFF	1210	RANGE DET	20 21 52	27360
	03	3110		CV 95	1959	net management is annual consideration of	SF	340	17110	ACD/GEN_INS_BLD	1.41.0	RANGE DET	202192	27.310
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,	03			<u>4596</u>	1959		5F	245	73075	PUBLIC TOILET	1210	RANGE DET	<u> 202153</u>	27320
	03	3112		6095	1959		SF	3,751	44112	STRG MAR CORPS	1210	RANGE DET	202154	27330
-/	U3	3 113		[CV93]	1959	in any come ways a competent	ĽA	., <u></u>	17940	SM ARMS RNGZOUT	1210	RANGE DET	202155	27340
,	03	3115		CO 95	1981		SF	464	61010	ADMIN OFF	1210	RANGE DET	207400	27350
	03	3116	14:50 pm at \$100 man	CU9's	1981	***************************************	EA	1	17940	SM ARMS RNG/UUT	1210	RANGE DET	201399	21,00
raf	03	3 143		CS 9.8	1960		SF	9,997	21910	PW SHOP	1903	CP CO SCHWAB	203020	27390
;	03	3125		C \$99	1904.		EA		17945	TRNG MUCK/UPS	_1200_	DPSCIEN MCB	. 207722	27401
	Ü3	3 145A		رينون	1984	•	ĿΑ	ı	17950	TRAINING COURSE			201768	27402
el'	03	3.420	,	LS99	1985		SF	80	14378	OP HAZ/FLAM STO	1500	FE MCB	207801	27.403
,	03	3127		US 99	1985		SI#	273	17120	APPL INSTR BLDG	1200	UPSETRM MCB	20 786 9	27404

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U3	3132	C4 .	1979	SF	49	73025	GATE/SENTRY HSE	1903	CP CO SCHWAB	207104	2741ú
Ų3	3 133	Ad	1979	LA.	, 1 ,	17945	TRNG MOCKZUPS	. 1 . 1 1	: plaque a majo que majo que majo majo majo majo majo majo majo majo	20,71,05	27420
03	3134	0-4	1980	LA	. 1	17950	PROJECTILE, RNGE	1210	RANGE DET	207335	27421
Ú3	្ត្រី ខ្លួក ់	68.90	1950	EA	<u> </u>	21455	VEH WASH PLATEM	4600	1 TEK VEH DN	292556	27430_
03	3 20 1	CR9a	1959	· EA	1	21456	GREASE RACK	4600	1 TRK VEH BN	202126	27440
03	3202	બાગતું.	1959		210	. ن 2137	AMPH VEH MAINT	4,000	L TRK VEH BN	202127	27450
Ų3	3203	CR 9 n	1959	LA	1 .	21456	GREASE RACK	4600	1 TRK VEH BM	202083	27400
03	÷204	ČR93	1959	Şi -	3,510	44112	STRG MAR CORPS	1500	PE ISCB	202120	2 (470
03	3 205	CR90	1959	UL,	4	:12310	FILLING STATION	4600	-1 TRK VEH BN	202205	27480
Ú3	3 20 6	LR 9 B	1959	SH.	8,216	21,451	AUTU ORGNL SHOP.	4600	1 TRK VEH BN	202129	27.490
U 3	3 207	ut98	1 95 9	514	510	21451	AUTO DRGNE SHOP	4600	1 TRK VEH BN	202202	2/495
U3	3 20 8	CK 9 5	1964	Sł²	7,228	21451	AUTU OKUNL SHUP	+0.00	BRO RECON EN	202515	27510
03.	3209	Caye	1984	ÜL	· 2	12310	FILLING STATION	4600	1 TRK VEH BN	207740	27512
03	3210	CQ9B	1984		22,370	21375	AMPH YER MAINT	1520	FAC MAINT	2077.19	27511
03	3211	UR93	1977	SF	2,400	44112	STRG MAR CURPS	4600	1 TRK VEH BN	206585	27520
03	3213	દ્વાર પછ	1984	SF.	13,428	21710	ELEC COM HTN SH	<u> 1700</u>	CED MCS	_20,7714_	27_23
03	3214	ÜK 99	1959	SF	6,420	72411	UOPH W-1/U-2	1903	CP CO SCHWAB	201988	27540
03	3 41 0	CR99	1959	SF	6,,420	72411	DOSH M-1/0-5	1903	CP_CU_SCHWAB	201989	27550
U 3	٠ 113 د	GK 99	1959	£A	1	75010	PLAYING COURT	1200	OPS THE MCL	202176	27560
U 3	3413	GR 99	1959	SF	6,420	24111	UOPH W-1/U2	1903	CP CO SCHWAR	261990	27570_
03	3219	CR99	1959	SF ·	6,420	72411	UOPH W-1/0-2	1903	CP CO SCHWAU	20 1991	27580

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	****** CAMP CUDE ******	#####################################	ጥ የተመሰቀ ነው። E X የመቀመ የመመመ	स्वयं के केन के स्व 4 AB 11 AB केन्द्रके केन क्ष्म	ቅዩ ## ቅዩዩ - COMS - YEAR # ቀዩ ##	የአቀድሞ ቅልቱ የቀቀቀ ቀቀ UUTGRANT EXPIRES የተቀቀቀቀቀቀቀቀቀቀቀቀ	። ቀ ቀ ቀ ቀ ቀ ቀ ቀ ሀ ነገ ነገ ነገ ነ ነ ነ ነ ነ ነ ነ ነ ነ ነ ነ ነ ነ ነ ነ		******* UNITS ****		*************************************	****** CM() しUU E ******	**************************************	********* RECORD NUMBER ******	********** UPDATE NUMBER *******
i	03	3220	a francisk de a - respec	CR 99	1961		ËA		2	75010	PLAYING COURTS	1650	SPEC SER	202076	27590
	03	3 22 1		CR99	1959		SF		6,420	72411	UOPH W-1/0-2	1903	CP CU SCHWAB	20 19 92	27600
	נט	3 222		CR99	1959	.,,.	' S#		3,615	74060	OFFICERS CLUB	1903	CP CO SCHWAR	202130	27 01 0
4	03:	J 223		LOYA	1959		SF	0) #0VDI: e1-400 0	6,420	72412	UOPH U3 ABOVE	1903	CP CO SCHWAB	20 19 84	27620
	03	3 22 4		CQ9A	1959		: 58		6,420	72412	UUPH 03 ABOVE	1903	CP CO SCHWAG	201985	27630
	03	3 226 🧓		CQ9A -	1959	1.1	sF		6,420	72412	UOPH 03 ABOVE	,1903,,	CP. CO. SCHWAB.	201936	27640
	03	5227		COSA	1959	1	SF		6,420	72412	UUPH U3 ABOVE	1903	CP CO SCHWAB	201987	27650
	נס	3.228	0 1	CR93	1050		ΙέV	100	112	*81212	TRANSFUR STA	1000	МСВ	20,2215	27000
	03	3229		CN99	1959		KV	N.	150	81212	TRANSFUR STA	4210	INF BN #1	202216	27670
	03	3 23 1		rasi	1959	en de la companya de	κV	11.1.	150	81212	TRANSFOR STA	1520	FAC MAINT	20 22 11	27680
	03	3 23 1		CU99	1959	0.00	SF		128	,82610	REFZAIR CON BLD	1610	CLUBS	262211	27685
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	03	3 23 2		CR98	1959		LF		250	81240	PERMTR/SEC LGHT	4600	1 THK VEH BN	202167	27690
	U3	3 23 3	1.5	CR 98	1974		J. SH	e ga lui i kombanan	4,000	44112	STRG HAR CURPS	_4600_	1 TRK VEH BN	20 42 66	27700
	03	\$235		CO9 a	1960		SF		40	73025	GATE/SENT HOUSE	1903	CP CO SCHWAB	207328	27701
•	03	3236		CILLAR	1966		<u> 51*</u>		1,806	74084	INDR PLAY COURT	1,050	SPEC SER	202834	27720
	03	3239		CR 98	1965		SF		66	14378	OP HAZZELAM STO	4600	1 TRK VEH BN	202783	27730
	6.3	3 240		CR 9 8	1964		KV		75	<u>8</u> 1212	TRANSFOR STA	1000	MCB	202524	27740
	03	3.241		URYH	1959		UL		2	12630	TK TRZCR LD FAC	4600	1 TRK VEH 6N	202200 1	27750
	03	غ 241A	••	289.	1959	b. 114 for the six of the section between a six	GN		400	12516	OTHR PIPELN FAL	1000	MC U	202204	21160
	03	3 242		ÇR93	1959	•	GA		42,000	12450	VEH R/FUEL ST	1000	MCB	202597	27770

, در	4GE 140			QUARTERLY BUILDIN	STENGINEER REPORT #02 IG NUMBER A		·	- , , , , , , , , ,	BIN14	1 001 19	36
************************************	፡- ጽሞኞ ቀላ ምዋ ጽሞ ም ፡- 141 ፡- 144 BER ፡- የተቀቀቀ ቀላ ቀላ ቀጥ	**************************************	ወቅ፡፡፡ የመመመመ መመመመ መመመመ መመመመ መመመመ መመመመ መመመመ	##&#\#\#\#\#\#\#\#\#\#\#\#\#\#\#\#\#\#\</th><th>UNITS</th><th>USE</th><th>፟፠፟፟፟፟፟፟፟፟፟፟፟፟፠፟፟፟፟፟፟፠፟፟፟፟፟፠፟፠፞ዹዹዹዹ DESCKIPTION ********</th><th>&本文水水水 【月】 * C∪けE &水水水水水</th><th>**************************************</th><th>********* RECORD NUMBER *****</th><th>本本本本本本本本本 LPDATE HUMBER 本本本本本本本本本本</th></tr><tr><td>03</td><td>3243</td><td>CK98</td><td>1959</td><td>ŲA ,,</td><td>42,000</td><td>12450</td><td>VEH R/FUEL ST</td><td>1000</td><td>MCB</td><td>202596</td><td>27780</td></tr><tr><td>03</td><td>3244</td><td>JR93</td><td>1464</td><td>SF</td><td></td><td>14378</td><td>OP HAZZELAM STG</td><td>4600</td><td>1_TRK_VEH_BN.</td><td>202490</td><td>27790</td></tr><tr><td>03</td><td>3445</td><td>- ११५४</td><td>1964</td><td>, 5F</td><td>49</td><td>21925</td><td>PW SHOP STOR</td><td>1520</td><td>FAC MAINT</td><td>202491</td><td>27500</td></tr><tr><td>C3</td><td>3246</td><td>CRYU</td><td>1965</td><td></td><td>570</td><td>73075</td><td>PUBLIC TOILET</td><td>4000</td><td>1 TRK VEH UN</td><td>202773</td><td>2/810</td></tr><tr><td>03</td><td>3 24 7</td><td>CK98.</td><td>1965</td><td>ul.</td><td>2</td><td>12630</td><td>TK TRZCR LD FAC</td><td>4600</td><td>1 TRK VEH 6N</td><td>20 28 54</td><td>27820</td></tr><tr><td>د ن</td><td>3248</td><td>URRO</td><td>1905</td><td>SY</td><td>400</td><td>85235</td><td>UTHR PAYED AREA</td><td>4000</td><td>1 TKK VEH BN</td><td>202967</td><td>27٥٥٥</td></tr><tr><td>0.3</td><td>3850</td><td>68.93</td><td>1966</td><td>. SF</td><td>25</td><td>12315</td><td>FILLING STA BLDG</td><td>4600</td><td>1 TRK VEH LN</td><td>30 29 20</td><td>27650</td></tr><tr><td>0.3</td><td>32.11</td><td>CR99</td><td>1905</td><td></td><td>. 177</td><td>35235</td><td>OTHE PAVED AREA</td><td>4000</td><td>1 TRK VEH BN</td><td>وه 27 29</td><td>27860</td></tr><tr><td>03</td><td>3 25 2</td><td>CR 90</td><td>1970</td><td>SY ,</td><td>177</td><td>85235</td><td>OTHR PAVED AREA</td><td>4600</td><td>I TRK VEH BN</td><td>204043</td><td>27870</td></tr><tr><td>03</td><td>3 50 0</td><td>CS 9 a</td><td>1971</td><td>56</td><td>96</td><td>73066</td><td>MISC WITH SHLTR</td><td>1903</td><td>CP_CD_SCHWAB_</td><td></td><td>2788.J</td></tr><tr><td>03</td><td>3 391</td><td>CS93</td><td>1,959</td><td>SF</td><td>. 96</td><td>73025</td><td>GATE/SENT HOUSE</td><td>1903</td><td>CP CU SCHWAB</td><td>202131</td><td>27490</td></tr><tr><td>03</td><td>3 303</td><td>£595</td><td>1959</td><td>LA</td><td>1</td><td>75010</td><td>PLAYING COURT</td><td>1650</td><td>SPEC SER</td><td>202179</td><td>27900</td></tr><tr><td>Ŭ3</td><td>3.304</td><td>CSYB</td><td>1959</td><td>\$F</td><td>6+420</td><td>72111</td><td>UEPH E1/E4</td><td>4000</td><td>1 TRK VEH BN</td><td>201925</td><td>27910</td></tr><tr><td>0.3</td><td>3 30 5</td><td>CROS</td><td>1964</td><td></td><td>49</td><td>14378</td><td>OP HAZZELAM STG</td><td>4600</td><td>L TRK YEH BN</td><td>202492</td><td>27920</td></tr><tr><td>ذ ب</td><td>3356</td><td>6599</td><td>1959</td><td>SF</td><td>5.800</td><td>72111</td><td>UEPH E1/E4</td><td>4600</td><td>1 TRK VEH BN</td><td>201,926</td><td>27930</td></tr><tr><td><u>u3</u></td><td>و ناز پ</td><td>(594</td><td>1959</td><td>SF</td><td>620</td><td>72112</td><td>UEPH E5/E6</td><td>4600</td><td>1 TRK VEH UN</td><td>201926</td><td>27940</td></tr><tr><td>****</td><td>安安安安安安 化邻苯甲基</td><td>**</td><td></td><td></td><td>0,420</td><td></td><td></td><td></td><td>**</td><td>*******</td><td>*****</td></tr><tr><td>03</td><td>3.307</td><td>CS 9 9</td><td>1959</td><td></td><td>5,800</td><td>72111</td><td>ULPH E1/E4</td><td>1903</td><td>CP CO SCHWAB</td><td>_201927</td><td>27950</td></tr><tr><td>03</td><td>3 30 7</td><td>6599</td><td>1959</td><td>SP</td><td>620</td><td>72112</td><td>UEPH E5/Eo</td><td>1903</td><td>CP CO SCHWAB</td><td>201927</td><td>27900</td></tr><tr><td>****</td><td>*****</td><td>**</td><td></td><td>n o 1814 illustratura helps her superiore superiore superiore superiore superiore superiore superiore superiore</td><td>6,420</td><td></td><td></td><td></td><td>7k X</td><td>***</td><td>*****</td></tr><tr><td>03</td><td>3 308</td><td>C599</td><td>1964</td><td>ŞF</td><td>3,570</td><td>72111</td><td>UEPH E 1/E4</td><td>1905</td><td>CP CO SCHWAB</td><td>202512</td><td>27970</td></tr></tbody></table>							

jen-19	P A	GE 147	2 - 15 ml + 8 mm of Section Section 18 m takes 2 - 30 m of the resident of Biographic	ally quarter is completely fine	QUARTERLY BUILD	TES ENGINEER REPORT #02 NG NUMBER A	·		**************************************	BIN14 DATE	1 UCT 15	186
	CAMP CUDE	**************************************	6	CONS YEAR	************************************	************************	* የተቀቀቀቀ USE CAT * የተቀቀቀቀቀ	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	************** CND USE CODE ***********	·********** _{L *******	ቀቀቀ ኞፋቀቀቀ KE CUR U. NU MB EK ቀቀቀ ቀቀቀቀቀቀ	******** UPDATE NUMBER *******
: : a	03	3303	67.46	1964	SF	2,850	73020	POLICE STATION	1860 PMO		202512 ******	27980
· #	03	*************************************	6599	1961	SF	6,420 104	73025	GATE/SENT HOUSE		U SCHWAB	201963	27990
rv ~ ¥	03	3311 3311	7K39	1954 1959	SF SF	3,772	44112 14345	STRG MAR CORPS ARMORY		KK VEH BN	_20,2655 20,21,32	28300 28010
- N	03 	3312 T	CS 9 9	1959 1959	SF	4+090 <u></u> 4+090	e1013 e1013	COVETRY HDQ COVETRY HDQ	. 96001 TI 4600 - 1 TI	KVEH BN	.,201993 201994	20070
	03 03	3314 3314	<u>LS99</u> US99	1959 1959	SF ,	5 <u>800</u> 620		UEPH E1/E4 UEPH E5/E6		RK VEH BN RK VEH BN		28080 28090
	halism is	*****			SF	6,420		The root of the state of the st			*****	******
a v	03 	3316	GR99 GR99	1959	SF	5,800 620	72111 72112	UEPH E1/E4 UEPH E5/E6		RK VEH BN R <mark>K V</mark> EH DN	20 1929 20 1929	26100 28110
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٨	03 03	3317	CRAA CRAA	1959 1959	SF	5,800	72111	PLAYING COURT		RK VEH EN	202160 201930	23120 28130
إبرستها	<u>C.3</u>	3318	URV9	1059	SF	620	72112	UEPH E5/E6	4600 1 T	BK_YEH_6N_	201930	26140
	***	*****				6,420						****
• }	03	3319 3319	6899 6899	1959 ; 1950	SF SF.			, BN/SUDRN, HDQ		RK,VEH,BN KK VEH BN	202015 202015	28150 28155
Teacond	· · ·	· · · · · · · · · · · · · · · · · · ·				5,840					·	******
ţ	U 3	3320	UR 99	1964	SF	2,802	61072	BN/SQDAN HOQ	4600 1 T	RK VEH BN	202510	28160

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**************************************	BL OG NUMBER	¤ቀ፟ቝ፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞፞ቝ ይ ፞፞፞፞፞፞ ፟፟፟፟፟፟፟፟፟፟	የመሰተ ተመመቀቀ ባ All ሀ I አመ የመደጽ "ቀ የቀቀ	CONS	ቀቀፍ የተመጠቀው መቀመው መቀመው መቀመው መቀመው መመመር መጠር መጠር መመር መመር መመር መመር መመር መመር መመ	112	******************** UNITS **** ****	******** U SE CAT *****	**************************************	本水 ネ 水 ネ 水	************** \\\\\\\\\\\\\\\\\\\\\\\	*** ****** RE CORD NUMBER *****	******** UPDATE NUMBER ******
03	3 340		GR99	1904	4 - 1 hamalan (SF	2 ,9 10	74043	GYMNASIUM	1650	SPEC SER	202510	28101
03	3 32 0		LR99	1,964		, SE	108	74009	EX SYC OUTLETS	90 14	AAFES	20 25 10	. 26162
****	****	***			T.		5,820				**	***	*****
03	321		U(79	1.959	. Py dang 46-01 ct-u-rig group part is a parameters of high by deter PF	<u> 51</u> -	2,340	55 01 0	MEDICAL CLINIC	4000	1 TRK VEH BN	202011	28 18 0
03	3322		LR99	1959		SF	19,020	72210	ENLST DINIG FAC	4500	1 TRK VEH BN	202018	28190
03	3,323		CRAA	1959		SF	5,800	72111	UEPH E1/E4	, 4600,	1 TRK VEH BN	201931	.20200
ι3	3323		GROA	1959		SF	620	72112	UEPH E5/E6	4600	1 TRK VEH BH	201931	28 210
***	安容积分字 安全年 安本	***			disputati kabulah masa lampampungan pengangan sasa ma		0,420				d: spt	***	****
. 03	3 32 4		CR 9 A	1959	• •	Si²	41070	61073	CUZBIRY HDQ	4600	I TRK VEH BN	201995	28240
0.3	1326	Y	GR9A	1959		عاد ا	5,800	72111	ULPH EVEA	1050	SPEC, SER	. 20 19 32	28260
0.3	3726	γ Υ	CRAA	1989		SF	620	72112	UEPH ESZEG	4600	1 TRK VEH EN	201952	29270
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0.3	3 327		. LK 9A	1959		5 4	5,000	72111	UEPH ELZE4	4600	1 TRK VEH DN	201933	28280
0.3	3.327		CR9A	1959		SF ,	620	72112	DEPH E5/66	. 4603	1 TRK VEH BN	201933	28290
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د ن	3328		CUSA	1989	THE RESERVE OF THE PERSON OF T	A		75010	PLAYING COURT	1050	SPEC SER	20,21,92	28300
03	3329		· CU9A	1959	•	SF	0.420	72412	DOSH GREVENAR	1903	CP CU SCHWAU	201943	28310
03 /	3 3 3 0		U398	1903		SF	62,700	72113	UEPH E7/E9	4210	INF BN #1	207544	28315,
03	3331		CR 9A	1959	+ II	ΚV	112	81212	TRANSFOR STA	1000	мсв	202217	28520
63	3052		<u> </u>	1935		SE	50,174	72111	UEPH E1/E4	4000	L TRK VEH UN	2077.49	28321
0.3	3332:	4	CR 9 9	1,985		SF	12+550	72112	UEPH ES/EG	4600	1 TRK VEH BN	207799	28322
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- 1		GE 1+9				QUART ERL	Y BUIL	DING NUMBER AS	s ignmen'	TS REPORT		DATE	1 UCT 19	986
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: 1	03	4د3 ن	1 4 3 (001-001-1800)	CRYU	1979	····	KG	. 50	83110	SWGE TRANT PLNT	1000	ИСВ	20 71 49	28340
	U3	3 3 3 5		CR 98	1979		SF	176	83109	SWGE TRMNT BLDG	1000	МСВ	207150	28350
4	⊍ 3	3 33.6		LS 95	1908		ĽΑ	1	21456	GREASE RACK	4200	4TH MAK BEG	202994	28351
i resign	C <u></u>	3337	AF - 102 PT - 15-024 19	CS 9B	1203		SF.	210	21451	AUTO ORGINE SHOP	4200	4 TH MAR BEG	202993	26370
	OD .	3.338	* 6	CSNA	1968	•	ĽА	1	21456	GREASE RACK	4200	4TH MAK BEG	202995	28500
1	ر د 0	3 339		CSYU	1966	af page process the page at a settle of	SF	8,252	21451	AUTO ORGNI, SHOP	4200	4TH_MAR_REG	20,29.90	28390_
	03	2 J41		G5.98 j	1968		LA	1	21455	VEH WASH PLATEM	4200	4TH MAR REG	20 2996	28400
	U3	3342		والابارا	1968		ું કેF	479	21451	AUTU ORGNU SHJP	9014	ANPES	20 2991	28410
	03	3 342		6890	1960		SF	100	74031	EX SUPP GAS STA	9014	AAFES	207991	26411
	****	******	**		. •	i Taggaran kanalangan kanalan		579		ر چرېزې د ا د ماللما چې پېښې پېښې او ادايه انځو او د د د د د	~ 118 gr	Section and the second section is	*** ** **	*****
	03	3343	e i i	6598	1960		UL	4	12310	FILLING STATION	1000	MCB	- 202992	28 420
	0.3	3 403		US 99.	1959	od obelia opice kanji namanji meli dali najim meli menin a d ali	SI ²	4,090 -	61073	CU/UTRY HDQ	4600	1 TBK VEH BN	201996	23450_
	Ų3	3404	Y	C\$ 99	1959	•	SF	5,800	72111	UEPH E1/E4	4600	1 TRK VEH DN	201934	28460
	C 3	3404	Y	65.99	1959	r on are no el observe risibilitative	S£	620	72112	UEPH E5/E6	4600	1 TRK VEH BN	201934	28470
•	****	* > ^ * * * * * * * * * * * * * *	**					6,420	,			**	*** ** ** *	****
waini	<u></u>	3.605	çı 19. jejuni		1964	and spirit in the water was been been been been been been been bee	SF	4,090	61073	CU/DTRY HDQ	4600	1 TRK VEH BM	202511	28500
	03	3406		CS 99	1959	,	SF	5,000	72111	UEPH EI/E4	4600	1 TRK VEH BN	201935	28510
(0.3	3406		US 79	1959	1 P S 4 MILES	SF	620	72112	UEPH_E5/E6	4600	I. TRK. VEH. EN.	201935	.28520
	*****	2.4.14.4.14.14.14.14.14.14.14.14.14.14.14	**					6,420			•	**	*****	*****
	03_	3407		C\$ 94	" Fu20	r 1 883 magay jawan wasan a sa 1970 day a 1984 sa a sagarana ma	SF	5,800	72111	ULPH E1/E4	4603	1 TRK VEH EN	201936	23.530
	03	3407		LS99 ,	1959		SF	620	72112	UEPH E5/E6	1500	PE MCB	201936	28540
- Quart	***	*****	妆雅	.		• • •		6,420,	i Grand of China and the Annie	• Pr •			****	******

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- LJ A (2	E 150	(*********************************				STENGINEERT REPORT #02 G NUMBER AS				BIN14 DATE	1 UC f 19	80
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CAMP	BLDG NUMBER	. - - 	474) 1114; ******	CUNS YEAR	OUTGRANT UN EXPIRES AS **********	UNITS	USE CAT ******	DESCRIPTION ***********	CUDE CUDE *****	USER ******	RECORU HUMBER *** *****	UPDATE NUMBER ******
د ن	3408	(C59A	1959	ĹA	. 1	75010	PLAYING COURT	1650	SPEC SER	202183	28550
U3	3 40 9	` Y	CS 9A	1959	· · · · · · · · · · · · · · · · · · ·	5,800	72111	UEPH_E1/E4	1500	EU_MCB	20,19.37	23560
03	3409	Υ	LSYA	1959	SF	620	72112	ULPH ES/Es	1500	FE MCB	201957	26570
****	本於 本方 本法 收水本	***				6,420	······································	· ·····		**	*** ** **	****
<u> </u>	3410		US 99	1960	SF	2,672	61072	BNZSQDRN HDQ	4600	1 TRK VEH BN	20 18 50	28580
03	411 د		US 9A	1959	S/F	5,800	72111	UEPH E1/64	4600	1 TRK VEH BN	201938	28 590
0.3	٠ الماء ت		6594	1959	SH	620	72112	UEPH E5/Eo	4600	1 TRK VEH BN	20 1938	28600
-	***	***			: '	6,420				**	*** ***	*****
03	3412	Υ Υ	LSYA	1959	ŞF	4,800	72111	UEPH E1/84	4600	I TRK VEH BN	20 1939	28510
03	34.2	Y	CS9A	1 259	SF	1,624	72112	UEPH ESE/6	4600	1 TKK VEH BN	20 19 39	25620
****	****	***			Topas III II	6,424				**	*****	*****
03	3+13	•	1,599	1959	SF	4,090	61073	COZBTRY HDQ	4600	1 TRK VEH BN	201997	20040
03	. 3414	. , , , ,	LR 9A	1959	LA	1	75010	PLAYING COURT	1650	SPEC SER	202184	28050
03	3415		LR9A	1983	SF	324	44135	GEN STRG SHED	9003	USO	207695	28 65 1
63 	5416		LRYA		SF	24,000	72113	ULPH E7/89	1903	CP CU SCHWAB	20 7106	28660
د ن	417د		LRYA	1965	51	4,160	74089	BATHHOUSE	1 050	SPEC SER	207370	28670
03	3417A		LK9A	1965	EA	1	17955	CBT TRNG PL/TK	1650	SPEC SEK	207371	28680
03	3418		LR9A	1959	OLC 04 SF	9,308	74028	AMUSEMENT CENTR	9003	U\$0	202022	28690
03	3418A		LR9A	1967	5F	81	83340	GARDAGE HOUSE	9003	0.20	204007	28 700
ده	3-119		UR 9A	1950	いげ	3,510	74009	EXC SVC OUTLETS	9014	AAFES	202134	28720
03	 1 _ب د		UK 9A	1959	SF	6,420	72111	UEPH E1/E4	1903	CP CO SCHWAB	201940	28740

⊼a		ACILITIES ENGINEER REPORT #02	DIVISION	DIN14	والمستقدمة والمستوارية والمراجع والمراجع والمراجع والمستقد المراجع والمراجع والمراع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع
PAGE 15 to a second	QUARTERLY	BUILDING NUMBER AS	SSIGNMENTS REPORT	DĀTĒ 1, U	ICT 1986
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3 422,	LR9A 1959	SF 6,420	72111 JEPH 61/64	1903 CP CD SCHWAB 201	1941 28745
03 3423	CR9A 1979	SF 24,000	72113 UEPH E7/E9	1903 CP CO SCHWAH 207	/107 _{.11} 267.70
3 443A	US98 1984 ·	EA 1	69010 FLGPL/BBRD/MRKR	1903 CP CU SCHWAB 207	1769 20173
., 63	C59B 1984	SF 17,413	44112 STRG MAR CURPS	4000 3RD RECUN BN 200	7720 28771
03 3 62 4	L\$98 > 1984	SF 1,604	14345 ARMORY	4000 3RD RECON BN 201	1720 28772 1
*************************		19,097	and the second s	· · · · · · · · · · · · · · · · · · ·	*******
03 3445	3393 1984	SP 50+174	72111 UEPH E1/E4	4600 1 TRK VEH BN 201	787 28774
0.5 3425	CSOP 1'414	SF 12,550	72112 UEPH E5/E6	4600 1 TRK VEH BN 207	77.07. 287.75.
雅维斯李泽斯安斯 经收款 经收益收益 医水水毒素		62,724	•	本水水市 冰湖	******
03 3426	CR98 1959	ນປຸ 6	54010 DENTAL CLINIC	_3000;F\$\$G202	2135 20781
03 3447	₹R9A > 1959	SF 7,228	35010 MEDICAL CLINIC	3520 B CO 3 MED 202	2136 28790°
03 3428	GC98 1759	SF 5,800	72111 ULPH E1/E4	3000 FSSG 20.	1942 26800
u3 3 <i>4</i> 26	GR9B : 1959	SF 620	72112 UEPH E5/E6	3000 FSS6 20	1942 28610
**************************	a construction of the same	6,420	ngagatinan i nana malah anganan kana dan kana kana angan	· 李本本本	****
03 5449	CR98 1959	SF 5,800	72111 UEPH E1/E4	4216. INF BN #1 201	1943 28620
3929	CR95 1959	SF 620	72112 UEPH E5/E0	4210 INF BN #1 20	1943 20030
**********************		6,420		- 東東東東華	****
03 3430	CR 98 (1968)	SF 4,704	73010 FIRE STATION	1530FIRE_DEPT 20.	3006 28840
03 3434	, GR96 1959	SF 5,800	72111 UEPH E1/E4	4210 INF BM #1 20	1944 - 28850
03	- GR9B 1959	SF 620	72112 ULPH E5/E6	4210 INF BM #1	194428860
*******************		6,420		**************************************	*****

PAG	E 152 (2)	gastin mat. His more transferrance tax commercials) 	QUARTER		TESTENGINEERT REPORT #02 ING NUMBER AS			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	BIN14 DATE	1 UCT 19	80
TARRERY CAMP CUDE VERRERY	**************************************	安安代表 共享 安安的 在 14 447 14 12 201 (12 12 201 201 201 201 201 201 201 201 20	CUNS YEAR	**********************************	ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ ቁ	*******************	******** USE CAT *****	DESCRIPTION *****************	****** CMD CODE *****	*****************************	******** KECURD NUMBLK ******	**************************************
03	3 43.2	Ç11.9B	1959		. · SI÷	5,800	72111	UEPH E1/E4	4210	INF 8M #1	201945	. 28470
03	3432	CK 9 B	1959	se seel process to made-seed to a	SF	620	72112	ULPH ES/E6	<u>4210</u>	INF BM #1	20 19 45	, 25 88 0
***	***************		r	•		6,420				**	****	****
03	3433	LK YH	1959	rad a trade were so try to the delegate departs were garged the West	SF	5,800	72111	UEPH 61/64	4210	INF 8M #1	201946	<u> </u>
03	3433	CR98 =	1959		SF	620	72112	UEPH ES/Eu	4210	INF BN #1	20 1946	28900
****	· 泰安安大大法法安安安安安 ·			energy ned a god to the	n majuring virigital ab i	61420	g gyapan-ndraba caccar-col montmatific		has a la de a d'actica dest	A PARTICIPA DE LA CONTRACTOR DE LA CONTR	*****	****
03	3 434	UR98	:1959	, i	\$F	. 4,090	74088	EDUCATION CNTR	1630	BASE EU	201998	2891U
03	3-36	CROB	Long	:	L; A	1 '	75010	PLAYING COURT	1650	SPEC SER	202198	28920
63	3 43 7 ° s = 3	GR 98	1959		SF	24,690	44112	STRG MAR CORPS	4210	1NF BN #1	202137	28930
03	3437	CR 96	1959		SF	380	14345	ARMORY	4210	INF DN #1	202137	28950
****	*****	•				25,070				**	********	****
03	5437A	Cisya	1967		5Y	16	85235	OTHE PAVED AREA	1903	CP CO SCHWAB	202970	28960
U3 .	3+38	er a	1959		SF	7,228	74070	CPO CLUB	1610	CLUBS	202138	28970
Ų3	3438A	CRYA	1997	A1 - \$ 10 \$550 -411056-10 \$510055 \$166 44	SF	81 	83340	GARDAGE HOUSE	1910	CLUBS	<u></u> 204005	28 <u>980</u>
ا فان	3439	CRYG	1969		SIF	464	13160	MAKS STATIUN	1700	CED ACB	201833	28990
U5 +	34194	6893	1970		ŁA	1	12321	ANT ENN A-CUMM	1700	CED NCB	204013	29000
U3/	34+1	CROA	1959		ΚV	225	81212	TRANSFOR STA	1520	FAC MAINT	202212	29020
U 3	3 442	CRYA	1939	as a special form	KV	150	81212	TRANSFUR STA	1520	FAC MAINT	202218	29031
ادن	3 44 3	· UR9a	1,959		KV	112	81212	TRANSFOR STA	1520	FAC MAINT	202219.	29040
03	٠ به دودی	G(9))	1959	· · · · · · · · · · · · · · · · · · ·	KV ·	112	31212	TRANSFUR STA	1520	FAC MAINT	202213	29050
٤٥	3445	CR9B	1964		SF	189	14378	UP HAZ/FLAM STO	4200	4TH MAR REG	202493	29060

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QUARTERLY BUILDING NUMBER ASSIGNMENTS REPORT BIN14 DATE 1 OCT 1986 PAGE 153 本人 太宗治法法法法宗宗 法者保持法 克 哲學學 按 法法法法法 电电流 非非常 不敢 化水 中安 CUMS YEAR OU CURANT EXPIRES UN MS CAMP MATE USE DESCRIPTION RECORD UPDATE CUDE สบดียยิ่น tal Li UAT CUDE NUMBER MUMBER **************** 0.33447 6545 1979 EΛ 69030 INCIN WO/BLD CL 1903 CP CO SCHWAB 20 7405 29066 03 3444 CROS 1982 4,000 44112 STRG MAR CURPS 42 00 4TH MAR REG 207538 29075 SF U.S 3449 URVA 1985 200 73075 PUBLIC TUILET 1903 CP CU SCHWAB 207846 29016 03 3 50 0 **LP93** 1901 69010 FLGPL/BBRD/MRKS 4200 4TH MAR REG 202030 29080__ **63** 3 30 1 611913 1459 SF 12:075 61071 REG/GROUP HOQ 29100 4200 4TH MAR REG 202139 SF ĊÜ 3502 **CR 26** 1454 1,800 61073 CO/BTRY HDQ 4211 HGS CO BN #1 202012 29110.... 3502 SF UK.96 1000 540 55010 MEDICAL CLINIC MRMC 202012 29115 2,340 ***** 03 3 50 3 SF O146 1959 6,420 21710 ELEC COM MTN SH 4211 HGS CO BN#1 202140 29130 03 3504 CRAB 1959 SF 6,420 17110 ACD/GEN INS BLD 4201 HQ CO 4 MAR. 2021+1... 29140. 63 3500 CRPS 1959 SF 4,040 21710 ELEC CUM MTN SH 4200 4TH MAR REG 29160 20 1999 úЗ 3507 CRAG 1059 72111 UERH 61/64 5,000 4201 HQ CU 4 MAR 202142 29170 03 3507 CRUS 1959 SF 620 72112 UEPH E5/E6 29180 HU CU 4 MAR 202142 海水水水水水水水水水水水水水水水水水 6,420 ***** **U**3 3 10 8 08.93 1959 S۴ 3,570 72111 UEPH E1/E4 4201 HU CU 4 MAR 29190 202143 **63** 3508 1959 2,850 55010 MEDICAL CLINIC J200 29200 6,420 **U**3 3509 UK 9B 1959 SF 5,800 72111 UEPH EL/E4 29210 4201 HQ CO 4 MAR 201951 03 3 50 9 CK94 1059 SF 620 72112 ULPH E5/E6 TRI CU 4 MAR 20 1951 29215 6,420

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03	7 21 1	CR 98	1959	و سوی و درستان سیو بر ۱۹۵۰ کام به در و بست و پودون بنده	SF	175	13115	COMM CENTER	1700	CED MCB	20 20 16	29245
***	***********					5,820	ndans to be been book on the one seems			**	***	*********
บร	3512	CR 91V	1959		5F	2,340	61072	BNZSODRN HDQ	1120	CCPO	202013	29250
03	3513	Citac	1959	DEC 84	SF.	2,337	74018	BANK	9011	_AMEX	202000	29270_
03	3513	CR 9 C	1959		SF	1,753	61073	CU/BTRY HUQ	1700	CED MCB	202000	29280
****	****						nulear , a production and	hnodonym s sport i kryti dany 194 minopoly, assanisma kaji daks	*11.4*	· not being a court of court agree years of its models.	*****	*****
03	3514	CityC	1961		ĿA ·	7 - 1 - 1 - 1	75020	PLAYING FIELD	1650	SPEC SER	202074	29290
03	3516	しRソビ	1989		SF	4,090	14345	ARMURY	4210	INF BN #1	20,2001	29300
.03	3517	UR YC	1.480		SI=	5,800	72111	UEPH E1/E4	4211	HGS CU BN #1	20 19 52	29310
03	3 517	UK9C	1959		SF	620	72112	UEPH_E5/E6	4211	HGS CO BN #1	20 1952	,2932 U.
本本學》	F 雅 琴 李子 法字 改准办案 华 本	•		•	,	6,420		•		· 本:4	****	*****
C 3	3518	LK9C	1.252		∴ SF	5,800	72111	UEPH E1/E+	4221	HES LO BN //2	201953	ـ9330
03	3519	LR 90	1,959		SF	620	72112	UUPH E5/E6	4221	HES CO BN #2	201953	29340
***	多方吨吨% 经复杂净净净净净	A* 10			#5 #P #1 10 ##10# 100 10	6,420		(B. old jäjping är videl hit brygge Alb ynggelij tidir-1865)	Mark 11 1 15 1 21 2	**	***	*****
U.3	3 320	CR90	1909		٦F	4,090	61073	CJZBTRY HDQ	4211	HLS CO BN #1	20 25 20	29370
63	3521	FK at	1 95 9		Sr	5,800	72111	ULPH E1/E4	4200	4TH MAR REG	201934	29380
03	3521	CR9U	1959		S#	620	72112	UEPH 65/66	4200	4TH MAK KEG	20 1954	29390
***	******		•	4 4.	1	6,420	s 50 or every le			**	****	*****
03	3522	UK 90	1959		SP	5,800	72111	UEPH E1/E4	4200	4TH MAR REG	201955	29400
03	3 52 2	じれやし	1,959		SF	620	72112	UE2H E5/E6	4200	4TH MAK KEG	201955_	29410_
****	· 法按按公司公司 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)					61420	,					*****

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03.	3523	CHOC	1959		SF	5,800	72111	UEPH E 1/E4	4200	4TH MAR	REG	201956	29420
03	3 52 3	CRSC	1959		SF.	620	72112	UFPH E5/E6	4200	4TH MAR	REG	201956	29430
***	(水水水水水水水水水水水水水					6:420		•			**	*******	*****
()	3544	UK 91.	1950	:	SF	5,800	7, 111	UEPH E1/E4	4200	4TH MAR	REG	201957	29440_
03	3524	CR 9 L	1959	*	SF	620	72112	UEPH E5/L6	4200	4TH MAR	KEG	201957	29450
****	****					6,420		d pangla d Mg gai 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		. s de en seedy in	* *	***	****
دں	1545	CRAC	1964		SF	4,090	61073	CO/BTRY HUQ	4200	4TH MAR	REG	202521	29480
٤٥	3526	URPU	1959		SF	2,340	14345	ARMURY	4200	4TH MAR	REG	202014	29496
Ų3	3 52 7	CR 94	1 95 9		SF	5,616	61072	BN/SODEN HOO	4200	4TH MAR	REG	202017	29500
03	3547	CR 9	1959	****	SF.	204	13155	CIR_DIS_ANT_AR	R_4200_	ATHNAR	"REG.	202017	29505
* * * * * *	******					5+820					* *	****	*****
0,3	3 52 0	CK9C	ا برزن		نان	3,570	61073	COZBTRY HOQ	420 0	4TH MAR	KEG_	_اور19	29510
٤.	3 52 8	CR96	1959	* * * * * * * * * * * * * * * * * * * *	SF	2,850	61 072	BNZSQDRN HUQ	4200	4TH MAR	REG	20 19 58	29520
****	*****	,				6,420					***	*****	****
03	J#49	ntac	Loive		58	5,800	72111	UEPH E1/E4	4.200	4TH MAR	KEG	201959	29530
03	3529	utyc	1959		SF	620	72112	UEPH 65/E6	9200	4TH MAR	REG	291959	29540
***	\$元本水本市水水水土水水水土水水水水					6,420	•				**	****	******
U3	3531 · ·	, 609G	1959		51-	4,090	61073	COZBIRY HUQ	4200	4TH_MAR	REG	202002	29570_
U3	3552	66.50	1959	1 2	58	000ء د	72111	ULPH 61/64	4200	4TH MAR	REG	201960	29580
03	3.502	CONC.	1959		5F	· 62v	72112	UEPH E5/E6	9200	4TH_MAR	_REG_		29,590
***	*****			$(x_{ij}, x_{ij}) \in \mathcal{C}_{ij} \times \mathcal{C}_{ij}$		6,420					1 00	****	****

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C VWN C ODF C ODF A MANA 4	#####################################	፡	ተቀቀም የሚቀቀም UKIU ሁለጀችሁ የተቀቀም የተቀቀ	********** **************************	PARTES COTORNATION EXPIRES PARTER PARTER PARTER	**** UN US US	*****	*********** UNITS *****	ቅ#ጳጳጳጳጳጳጳ BSU CAT ፍጻጳጳጳጳጳ	**********************************	****** ****** *****	**********************************	********* Recuru Number Number	********* UPDATE NUMBER ******
03	3533	1 111 111-11 14-1 14	cqyc	1959	hard a thing are purifying the desired by the desired and the finders	SI ²		5 .800	72111	UEPH E1/E4	4200	4TH MAR REG	201961	29600
د0	3533		いけるい	L959	4,0	SI [±]		620	72112	UEPH E5/E6	4200	ATH MAK REG	201961	.29610
***	· ** ** ** ** ** ** ** ** ** ** ** ** **	* * *		, , ,				6,420				***	***	*****
03	3534		្តប្បទដ្ឋ	1,960		LA	m tilathaminaan		75020	PLAYING FIELD	1,50	SPEC SER	202662	29620
V3	3 5 3 6		LUUC	1950		SF		0,420	74043	GYMNA SIUM	1650	SPEC SER	202144	29630
03	3537	- Nichara	CHPC	1959	a see a see a see a see a	SF	ne e see	6.420	74043	GYMNASIUM	1650	"SPEC SER.	202145	29641
L3	3 53 8	*****	LUGE	1959	en e	SF		6,420	74009	EXC SVC OUTLETS	9014	AAFES	202146	2967u
ذه	3539 *		ي بوړي	្តរួទ្ធទប	a provider the repercel (Browsthele problem)	<u> </u>	27 - 12 - 14 - 1 - 14 - 14 - 14 - 14 - 14	3,120	73013	ISSZRTL CLTH ON	1990	CP CU FUSTER	202003	
03	3539		C491	1959	n de la companya de La companya de la co	SF		409	74019	CREDIT UNION	9012	· NFCU	202003	29690
U 3	3539		CQ 9 Ç	1959		SH	i. Kananan	551	74012	RD CRSS/NVY RLF	9001	RED CRUSS	202003	2969 L
*****	*****	***	* ale in		\$ 1 × 1 € € 1			4,000	•	C)		**	****	****
دں	3 %4 u	, d Company	LUDD	1963	proj a 18 speking rosa nggaparatop ja kriippjas kriippjas ij pag	JF.		875	21920	PAV/GRNUS EQ \$H	1800	P110	207372	29700
دن	3540A		L496	1962	ericani. Profesional Section Sec	SY		1+148	85235	OTH PAVED AREAS	1860	PMQ	207373	29710
03	3541		UR94	1959	17.4 2 1 1 1 1 1 AP	JF.		9.068	74001	EXCHANGE RETAIL	9014	AAF ES	20 20 19	29720
03	2541	*	URME	1959		SF		3.38	74009	EXC SVC UUTLETS	9014	AAFES	202019	29730
<u> (-3</u>	آ ۽ 44 ل	telt kadden je agel	LK9L	1 95 o) 	SF		3,055	74004	EXC CAFE	3014	AAFES	202019	29740
03	3 54 1	0.5	CRYC	1 95 9	•	SF		1,989	74028	AMUSEMENT CENTR	9014	AAFES	202019	29750
*****	******	***						19,450	, , , , , , , , , , , , , , , , , , ,	which is the same of a same of		, ,	*****	*****
0.3	3,542		しにソビ	1959	T.	٥P		4+090	61073	COZBTRY HDQ	4200	4TH MAR REG	202004	29760
<u>C3</u>	3 543		CK 16	1961	(1775). P. Elkinskihöldelli sindendi kini 6-431	LÅ	rhadno (gá os þygags q o	2	75010	PLAYING COURTS	1020			29 78 0
Ė٧	4 44 د		JR 911	1.958	:	ĽA		1	75010	PLAYING COURT	1650	SPEC SER	20 21 60	29781

· ·		e sa a serescipio de la composição de la c		. [4]	they are provided up to the Edding Southern South of the Assessment and the Assessment of the Assessme		TENGINEER REPORT #02	DIAISID		 	917814	and represent a such it is not only the fifty or the street of the stree	
	PAG	E 157			QUARTERL	Y BUIEDING	NUMBER AS	s ignment	'S REPORT		DATE	1 UCT 19	86
r.end	*************************************	**************************************	የጽቁጥጥጥ ጥጥተ የለ P ነቃኒ I D የቁቀፋተ የ ጉቀቀ	************************************	xxxxxxxxxxxx OUTGRANT EXPIRES xxxxxxxxxxxxx	************ UN US ********	UNITS	************************************	አቶ አቀላ የተቀቀፉ የተቀፉ የተ	***** CMU CUUE *****	*************************	********* RECORU NUMBER ******	******** UPDATE RUMBER *******
	U3	3 54 5	CH9B	1982	angapang kangungang ay ay pumu and pabelul di Arecoup. Spillion	SF	539	44135	GEN STRG SHED	1903	CP CO SCHWAB	207533	29795
•		3 54 G.	CO 90	1959	. 41.11	EA	2	75010	PLAYING COURTS	1650	SPECSER	202177	29800
ned.	U.3	2347	COSI	1959		KV	112	81212	TRANSFUR STA	4210	INF BN #1	202214	29810
	د ٥	3.5-18	6496	1959		Ky	150	81212	TRANSFOR STA	4210	INE ON #1	_ 202205,	2982u
4 3	03]	3549	CH9C :	1959		KV	50	31212	TRANSFUR STA	4210	INF BN #1	202220	29830
inal/q	03	3 3 3 1	LR9C	1959		KV	100	81212	TRANSFOR STA	4210	INF BN #1	. 20 22 16	29 840
	63	3552	C6) 9 C	1959		ΚV	100	01212	TRANSFOR STA	4210	THE BU ST	20 2209	29850
. ,	03	3604	CR9C	1950	Controller for a language specification to the state of t	<u>LEA</u>	1	75010	PLAYING COURT	1650	SPEC SER	252107	29860
Jia ani	43	3 60 4	CR9C	1959		LA	- 1	75010	PLAYING COURTS	1650	SPLC SER	202108	29870
	U 3	3.603	U\$ 9 Ç	1959		SF	5,800	72111	UEPH 6.1/64	4200	, 4TH, MAR REG.	201965	2988U.
a ?	0.3	3.603	6896	1959		SF	620	72112	UEPH E5/E6	4200	4TH MAR REG	201965	29890
tiolet	****	· · · · · · · · · · · · · · · · · · ·	a kap o jegog bagilpans		i kan majangkan peringan kanawang penering ni semplesi seri		6,420		- 10 201-7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	pq	ų A	****	******
Nezista	u3	3604	UK90	1959		SF	4,090	61073	COZUTRY HDQ	4200	4TH MAR REG	202005	29930
4 .134	03	.3605	CRAC	1960		SF	120	73000	MISC WIHR SHLTR	.4200	4TH MAR REG	201852	29940
prochibi	03	3606	CityC	1959		SF	5,800	72111	UEPH E1/E4	42IU	INE ON #1	201906	2995u
tat iai	<u></u>	3000	しんりし	1 95 9	npark) \$4811 bid aldereler on occupy; polety de	<u> Şi:</u>	<u>620</u>	72112	UEPH E5/E6	4210	INF BN AL	201906	29960
Et (14g	***	· 法未放款 老台 海南海水南海	• •				6,420		•		**	*****	*****
giag	03	3 UN 7	Ckyb	1959		SF	5 <u>∎8</u> 00	72111	UEPH E1/E4		"INF.BN.#I	20 1967	29970
الودد	03	2007	いくがし	Laka	ě	SIF	620	72112	UEPH ESZE6	4210		201967	29980
-	****	·海安安年供益安保市安安安 *********************************	ar streets shee	. q (c. 41949)	a constitute provides y participate activation of spike of		61420					****	*****
- a	43	/ 3 GOU	ÇR90	1959	•	SF	ÿ₁800	72111	UEPH E1/E4	4210	INF BN #1	201965	29985

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CANP CUUL *****	enanananan OL UG NUMBU NUMBU	マネネネネネス TO(17 大	******* CONS YLAK *****	ዩ አያር አያር የመመር ነው።	************************	# የተና ተዋ ቀዳ USE CAT ተቀቀቀቀቀቀ	**************************************	አጽቆዳቶል የ	***********************	ቀቀ ቀቀ ቀቀ ቀቀ ቀቀ ቀቀ የ E CORU MUMB ER ቀ፡፡ ቀቀ ቀቀ ቀቀ ቀ	***********************************
US	3608	しれなし	1959	SP	620	72112	ULPH E5/E6	4210	INF BN #1	20 19 65	29986
***	****	1		The distribution of the profit blooms of the bloom of the desired by the desired by the bloom of the desired by the desired by the bloom of the desired by the desired by the bloom of the desired by the desired by the bloom of the desired by	6,420	platight of the plantage profit as	1842 ft. silvif es la monoglamora considença a canada gepelaga		Li ella si munos simbilos segui i està cinace estane più panace i	****	******
υ 3	3009	Citte	1983		5,800	72111	UEPH E1/E4	4210	INF BN #1	20 19 69	29990
03	3609	Little Little	1903	<u>\$1</u>	62u	72112	UEPH E5/E6	4210	IHF IN #1	201969	وويون
****	· 表示表 法方 25名 公本市 26名市				6,420				•	****	***
03	3610	CS9B _	1962		. 1,240	61010	AUMIN DEF	0068	US ARMY	204003	30000
03	3611	CRAC	1059	SF	4:090	61075	COZUTRY HDQ	4216	1NF UN #1	202006	30030
<u>u3</u>	3012	CR96	1950	EA		75 v 1 0	PLAYING COURTS	1650	SPEC SER	202189	30040
0.3	3 11 3	CR9C	1959	SF	19:020	72210	ENLST DINING FA	4210	INF BN #1	202020	30050
03	3614	GROW	1959	5cm 5f	5,800	72111	UEPH E1/E4	4210	1NF BN #1	201970	30060
03	3614	GR96	1959	۵۴	620	72112	UEPH ES/EG	4210	INF BN #L	201970	0070 د
****	*****	enders the second benegative to the	Miledratic and the second and a color and	d Paragular (1964) be the sales of the sales	0,420				·	****	****
U3	3615	6190	1975	SF	6,390	74078	RECEATION PAV	1650	SPEC SER	204305	30082
03	30154	CT 96	1.981	SF	64	14378	OP HAZZELAM STU	1650	SPEC SER	207431	30085
د ن	3 017	(503	1978	SI	8,800	74007	BOATHOUSE	1650	SPEC SER	206565	30100
03	3617n	ut 90	1991	5.14 Crace to a recommendation of the speciment	<u>04</u>	14373	OP HAZZELAM STO	1500		20.74.52	30105
03	3018	CR90	1959	SF	4.090	61073	COZBTRY HDQ	4201	HQ CD 4 MAR	202007	30130
63	3619	GR95	1959	se	5,800	72111	ULPH E1/E4	4201	HQ CO 4 MAR	201971	30140
03	3619	CR9D	1959	SF	620	72112	UEPH E5/Eo	4210	INF BN #1	201971	30150
*****	·李欢☆松生珍幸 安全 本中本年本出) Pileter a	es Casadri Targas Minamada ne sire II e i i de decental El miciliar (m. 11 de de	0,420	****	rikan rok we w ikan e spo. De pameran ny ne da l ynyggog ny hypy yyd, asynolyk y			****	
03	3620	CS 90	1962	SI	1,240	61010	AUMIN OFF	8300	US ARMY	204004	30100

		: 159			. 3411944411959 2 4 22	•		Y BUIL	TIESTENGINGERT REPORT #02 DING NUMBER AS		•		BIN14 BATE	1 00 7 1	936
	************************************	BLUG NUMBER	ቅዩት⊹ቅቅ 	ማ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ	本本本本本本本 CDMS YEAR 本本本本本本本本	የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ የ	ANT LES	UN MS	**************************************	USE CAI ****	**********************************	****** CMD CODE *****	*************	******** RECORD NUMBER ******	**************************************
	U3	3621		CR 9D	1959	***************************************		SF	5,800	72111	UEPH E3/E4	4210	INF BN #1	201972	30170
	<u> 03</u>	3 62 1	:	CROD	1.959		********	_Sr	620	72112	UEPH ESZE6	4210	INF BN #1	201972	30180
		****	in the						6,420		·		神 坤	*** ** **	****
	03	3632		ենցո	1959			. الأو	5,800	72111	UEPH L1/E4	4210	INF BN #1	20 19 7.3	30151
	03	3 022		しになり	1959		*	SF	620	72112	UEPH E5/EG	4210	INF BN #1	201975	30190
	****	****	**		:	and the second of		de loids	6,420		general general promotory (c. et a. v. style pt a by a colonia och style body s		**	***	****
	U3	° >623		COPD	1959		.1	SF	5,800	72111	UEPH EIZE4	4210	1MF WN #1	201974	30200
	U3	3523		' W190	1959			SF	620	72112	<u> </u>	4.10	111F Nic 1111	201974	36220
	*****	***	**	,				•	6,420				*4	*****	*****
	_ 03	3624		G190	1959	2.19		SF	5,800	72111 _.	UEPH EVE	4210.	LINE BN #1	.201975.	. 30230 ,
٠,	03	3624		6090	1.95.9			SF	6.20	72112	UEPH E5/E6	4210	INF BN #1	20 19 15	30240
	*****	****	44						<u>0,420</u>				**	******	****
1 -	¢٥	3620		LKYD	1959			ĿA	1	75010	PLAYING COURTS	1650	SPEC SER	202191	30260
	05	3627		U() 9D	1959			SF	2,920	55010	MEDICAL CLINES.	8300	US ARMY	202008	30270
	0.3	3027		0098	1999	4. ·		SP	1,170	14345	ARMURY	8300	US ARMY	202008	30280
	***	***	4 # ·						4,090		,	Table Specifical and 4 : help		***	空电景影声中电影
	03	3 62 8		CQYD	1959			٦F	4+090	61073	COZBTRY HUQ	4210	INF BN #1	202009	30290
	03	3629	t - 1	CQ 90	1959			SF .	14,050	72210	ENLST DINIG FAC	1310	FOOD_SER BR	202021	30300.
	03	3650	4	UKYU	1983			. SF	62,700	72111	JEPH E1/E4	4210	INF UN #1	207639	30301
	: د٥	3.034		CUYU	<u>, 1959</u> 3			44	<u> </u>	75010	PLAYING COURT	1050	STEC SER	202199_	30510_
	03	3632		CけるD	1959			ĽA	1	75010	PLAYING COURT	1650	SPEC SER	202192	30320

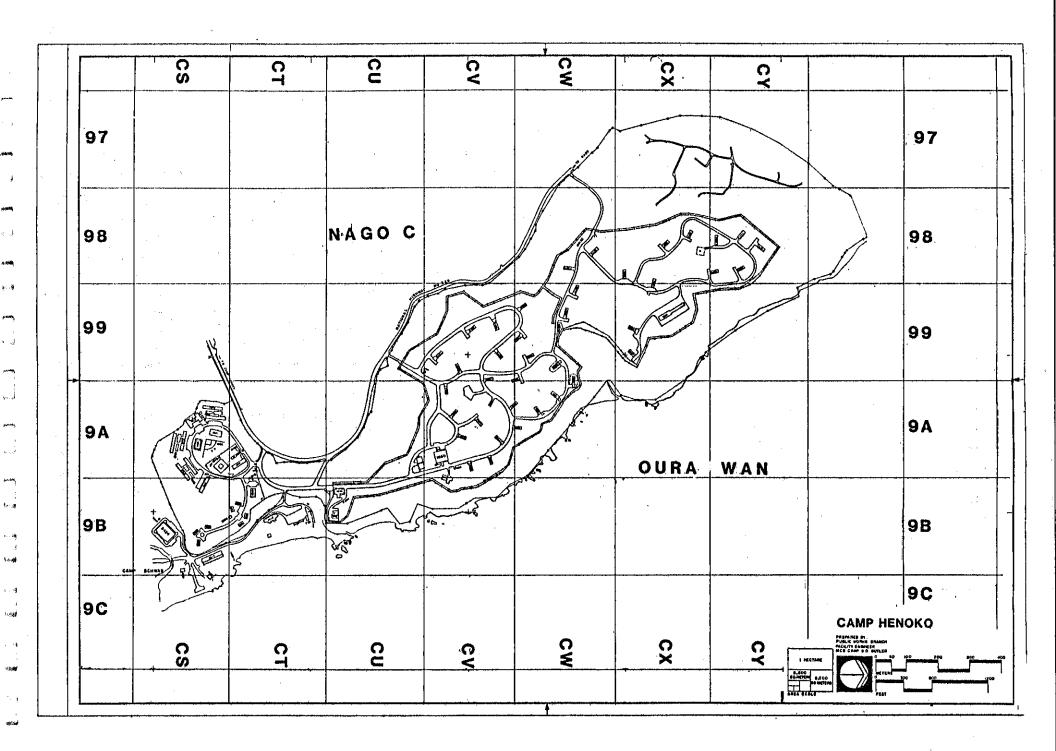
a	as assessed	e 1	200 to 100 cons			0.7,11	'IES ENGINEER T REPORT #02	748 F 1 F 150			8111	4	
PA	vE 160				QUARTER	LY BUILD	ING NUMBER AS	I GNMEN	TS REPORT		DATE	1 OCT 19	36
CUUC ****	BLUG NUNDER	. ******* . X . *******	######################################	****************************	OUTGRANT EXPIRES	######################################	UNITS	USE LAT		CUDE CUDE *****	************ USEK ******	********* RECURD NUMBEK *******	UPDATE NUMBER
03	3 0 3 4	10 5 21 Steel	L() 91)	1959		SF	5,800	72111	ULPH E1/E4	4210	INF UN #1	201976	3330 ك
0.3	4 لـ ن لـ		COAD	1959	40 V89	SF	620	72112	UEPH E5/E6	4210	INF BN #1	20.1976	30340
****	*****	學攻					0,420				*	****	1水香水水水水水水水
03	3035		Cyan	1 404	Take to the same of the same	SI:	2,450	55010	MEDICAL CLINIC	0200	NRMC	202522	3035U
03	3635		COSD	1464		5F	1,040	61073	CU/BTRY HUQ	4210	INF BN #1	202522	30355
****	*****	r de vite			e comment to a		4,090					*********	****
03	3 03 6		C(19)	1959	392	SF	6,420	21710	ELEC COM MTN SH	4210	INF BN #1	201977	30360
υ3	3637	2 (4) 4	6.2.10	1950		SI:	5,800	72111	UEPH E1/E4	4210	INF BN #1	201978	3U 380
03	3637		COSD	1959		SF	620	72112	UEPH E5/E6	4210	INF UN #1	201975	30390
****	****	***			(2.7)		ó,420					****	****
03	3638		CHAN	1959		SF	5,806	72111	UEPH E1/E4	4210	INE BN #1	201979	00400
₹3	3638	* 1 * 0.000000	Cศักก	1050		SF	620	72112	UEPH ES/E6	4210	INF BN #1	201979	30410
******	***	4.称本					0,420	9				*****	******
03	3639		Cran	1959	er energe sommer en er	SF	800 رځ	72111	UEPH E1/E4	4210	INF BN #1	201930	30420
03	3639		6990	1620		5 F	620	72112	UEPH E5/E6	4210	INF BN #1	201950	30430
****	****	***		TOTAL CONT. SEC.		**********	6,420					*****	*****
03	3640	6	CS 90	1973		SY	. 71	85120	VEHICULAR BRUG	1520	FAC MAINT	202531	50440
03	3641		69.40	1959	T & 44 - 20-20-20 - 20-	SF	3,210	21710	ELEC COM MTN SH	1700	CED MCB	201981	30450
03	3 64 1		UQ 9(1	1059		SF	5,210	44112	STRG MAR CURPS	1700	CED MCa	201961	30400
***	* * * * * * * * * * * * * * * * * * * *	***					6,420					****	*****
03	3642		CHAD	1959		SF	6,420	61073	COZBTRY HDQ	4210	INF BN #1	201982	30 461

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PA	GE · 161				QUARYERI	Y BUIL	DING NUMBER AS	S IGNMEN	TS REPORT		DATE	1 DCT 19	186
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03	ä 6+3	Third of the Line and the second section (ยนุรุย	1959		SF	3,940	61072	BNZSQDRN HDQ	4210	INF UN #1	202010	30490
03	3443		CQ 9D	1959		SF	150	13115	COMM CENTER	1730	TELE COM	202010	30495
***	erika siya siya siyarina siyarina rika siya siyarin	** *					4,090				**	****	****
د ن	3044	• .	, 549 <u>0</u>	1959		EA	1	75010	PLAYING COURTS	1650	SPEC SEK	402194	30500
03	3045		CR 9h	1966		SF	3,569	74084	INDR PLAY COURT	1650	SPEC SER	202835	30510
u3	3 04 6		CHAC	1959	4 4 4 7 11 11 11 11 11	اب	17,290	74056	<u> CHEATER</u>	1650	SPEC SER	20,2147	33520.,
03	3647		しはっし	1961	* , *	SI ⁴ .	2,350	74076	LIBRARY	1650	SPEC SER	201962	30530
<u>03</u>	3648	e i japane	نا ۽ اِپ	1969	n que reprinci ha um archefermantes que aperprincipa françois Mais	SF.	2,900	74037	ISSUE IM	1650	SPEC SER	203046	30540
. 03	3649		6496	1960		SF	120	73066	MISC WTHR SHETK	1000	MLB	201653	30550
03	0 ڏن د		r 6 40	1984	a trynnika a toskupus uk	56	4,005	21175	PARAZSURV EQ SH	4000	3RD RECON BN	201717	1660
03	3 05 1		6496	1950		515	10,174	74043	GYMNASIUM	1650	SPCC SER	20 21 48	30560
0.5	3652		0496	1959		5IF	y,360	74065	TW 2AC CTOT	1610	CLUBS	_د20202_	30570
03	3652A		COST	1967	3	SF	81	83340	GARBAGE HOUSE	1610	CLUBS	204006	30580
0.3	3454		Citac	1 95 9	The second secon	<u>ş</u> e	2,925	74 043	GYMNAS IUM	1050	SPEC SER	202149	30590
03	3 oS 4		លា១៩	1959	•	SF	585	74009	EXC SVC OUTLETS	9014	AAFES	202149	20600
* ***	1974年1974年1974年1974年1	μ. 1 _{4.14} .	; I	I manual by a majority to progression		-	<u>0 المر</u> 3				**	****	***
0.3	3656		CHAC	1959	* * * * * * * * * * * * * * * * * * * *	SF	1,770	73085	POST OFFICE	1130	PUSTAL NCB	202024	30620
03	3658		CHAC	1959	e still to descript out their	SF	2,761	13140	TEL EX BLDG	1000	МСВ	202150	30630
03	a 65 B		00.90	1.459	•	56	209	13140	TEL EX BLDG	8300	US ARMY	202150	30640
***	**********	* * *		entre d'asse	1-1 1-de servicement de la		2,970				78.4	****	***
03	3659		CO 9 C	1 95 9		EA	1	75010	PLAYING COURTS	1650	SPEC SER	202260	30650

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PAGE	E 162				quart eri	Y BUILDI	NG NUMBER AS	1GNMEN	TS REPORT		DATE	1 DCT 1	y8 u
**************************************	********* OL DG NUADEA ****	********* {} X *********	東京中央大学 14 Alt 14 まり 14 まり 中央中央中央	********* CDNS YEAR ******	PARKERS OUTGRANT LXPIRES LXPIRES PARKER PARKER	******** UN US *******	***********************************	******* USE CAT *****	ቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅቅ	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	*****************************	********************************	本本本本本本本本本 UPDATE NUMSER 本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本
030 47	: 366 U		CQ 98	1982		SF	1,470	03169	SWGE TAMT BLUG	1520	FAC MAINT	207409	30655
C3	3601		LUYB	1982		KG	451	83110	SWGE TRNT PLANT	1520	FAC MAINT	207530	30056
6.3	3662		GQ96	1964		SF	U,996	73083	CHAPEL	1900	CP CO FOSTER	202509	30660
. 03	3000		CHAC	1800	e a company of a constraint of the contract of	5F	8,064	74040.	BUWLING ALLEY	1650	SPEC SER	202800	30680
03	3666	•	Cano	1983		GM	50	83230	SEWAGE PUMP STA	1520	FAC MAINT	207721	50661
	3 668		CUPC	1959	and the explanation of the	KV	300	81212	TRANSFOR STA	1520	FAC MAINT	202207	30 69 5
03	3069		ርብቁር	1 95 9		KV	112	31212	TRANSFUR STA	1520	FAC MAINT	202222	30710
U 3	<u> [</u>		6598	1961		SF	3,000	21977	PH MTN STRG	1903	CP CO SCHWAU	201904	30 /20
03	T 9		ارج فال	1961	. •	SF	1,000	21925	PW SHUP STRG	1540	PWO	2019,64	30721
***	****	***				· date is a relative	4,000	erk og det gledge	ta digin kassis in pagabbin bapanganan in	de mai i kansin	**************************************	***	****
ا دن	1 > 20		CR 9 ti	1960		SF	4,000	44112	STRG MAR CURPS	4600	1 TRK VEH BN	201706	30750
03	T / Zo		C 196	1971	mar men. Aven dilm er 19 två skådededd S flesskreddedd	- اد	960	14037	PEC SERV CTR	1650	PEC SER	204093	30770_
03	F 27		CT98	1972		Si	960	74087	BOATHOUSE	1650	SPEC SER	204106	30780
03	T 28	Υ,	CHÁC	1974	e ar a second constitution of the second	<u>SI</u>	<u> </u>	74009	EXC SVC DUTLETS	9014	. AAF ES	204300	30790
C3	T 3420		CR 9 A	1979		SF	513	44135	GEN STRG SHLD	9003	USO	207403	30791
101AL #	<u>՝ Թե ՝ Bo i F n</u>	IANGS FOR	LAMH C	กวะ งว	15 272		The Control of the Co			·			

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FACILITIES ENGINEER DIVISION
REPORT #02
GUARTERLY BUILDING NUMBER ASSIGNMENTS REPORT

BIN14 DATE 15 JAN 1986

**** CAMP CUDE		ቀ ተቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ ቀ	**************************************		* **** **** * UNITS * ****	**************************************	#፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡፡	nanananan USER nanananan	*********** RECORD NOMBER *******	******** UPDATE NUMBER *****
- 15	1001	C198	1960	្ត ទទ	5,500	61073 COVETRY HOQ	3630	AMMO CO	206423	49180
· 15	16013	6P TO	1901	E A	1	69010 FLGPL/BBRD/MRKR	3630	AMMO CO	206501	49200
15	1002	CT98	1959	, 5F	1,352	72113 WEPH E7/E9	3630	AMMO CO	206424 .	49210
15	1003	CT9d	1959	5F	1,352	72113 UEPH E7/E9	3630	AMMO CO	206425	49220
15	LuJ4	เป๋า98 🐈	1959	SF	1,352.	72113, UEPH E7/E9	3630	AMMO CU	206426	49230
15	1 00 5	CT9H	1959	SF .	1.352	72113 UEPH E7/E9	3630	AMMO ;CO	206427	49240
15	1606	८११४ (101,0	in GP (James	681	73065, FALLOUT SHELTER	3050	AMMU CO	206429	49250
15	1407	CS 98	1959	SF	1,352	72113 UEPH E7/E9	3630	AMMO CO	206429	49260
15	1 रेक् 8	C\$98	1959	, SF	t,352	, 72411, GEPH ,W-170-2 ; ;	3630	AMMO CO	206430	49270
15	1639	CS 98	1959	SF.	1.352	72411 UUPH W-1/0-2	3630	AMMU CO	206431	49280
. 15	1010	CryA	1959		4,751	. 21451 AUTU ORGNE SHOP	3630	AMMO CO	206432	49290
15	1 0 1 0 A	CTMA	1960	SF	42	14378 OP HAZ FLAM STG	3630	AMMO CO	206433	49310
. 15	10108	CT 94	1,97C	SF	36	14378 OP HAZ FLAM STG	5630	AMMO CO	206434	49320
15	10100	CT 9A	1970	SF	36	14378 UP HAZ FLAM STG	o630	AMMO CU	206435	49330
15	16160	CT.9A	1959	SF		74030 EX SERV STATION	3630	AMMO CO	206447	.49340
15	17106	C196.	1050	L:A	1	21455 VEH WASH PLATEM	3630	AMMO CU	206499	49350
, 15	1101	CT9A	1959	SF	100	74009 LEX SVC OUTLETS	3630	AMMO CO	/ 206436	49360
15	1612	CS 96	1959	5F	5 , 3 47	72210 ENLST DINIG FAC	3630	AMMO CO	206437	49370
1.5	1913	CS9A (1059>	SF	1+299	73065 FALLOUT SHELTER	3630	AMMO CO	206430	49380
15	1014	CS9A	1 757	5F	9,500	72111 UEPH E1/E4	3530	AMMO CO	206439	49390
15	14,14	CS9A	1 99 9	5F	2,475	72112 UE2H E5/86	3630	AMMO CO	206439	49400
.	****	1.7x-14	•		11,975				*****	****

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REPORT #02
QUARTERLY BUILDING NUMBER ASSIGNMENTS REPORT

1 PAGE 259

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**************************************	ቀቀ የተመሰቀ የ	wya aaaa aaaaaaaaaaa OUTGRANT UN FXPIRFS MS waaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	*********** UNITS 	************************** USEDESCRIPTION CAI ***********************	*********** CMD USER CIDE *********	**************************************
15 1015	CS9A 1959	SF	1+299		3630 AMMD CO	206440 . 49410
15 1016	(59) 1960	SF	9,550	72111 UEPH E1/E4	00 0MMA 0666	206+41 49420
15 1016	C\$9A1960	\$F	2,725	72112UEPH E5/E6	3630 AMMO CO	206441 49430
15 1 1016	C59A 1960	SF	200	14345 ARMORY	3630 AMMO CO	206441 49440
*************************************		n e e e e e e e e e e e e e e e e e e e	12,475	p. p. s. et e		*****
15 1017	CS94 1959	SF	2,759	74054 REC BLDG	3630 AMMO CO	206442 49450
15	CS 9A 1 1959	SF.	2,205	.61073 COV8TRY.HUQ	3630 AMMO CO	206442 49460
15 1017	C594 1454	5 F	400	74009 EX SVC DUTLETS	9014 AAFES	206442 49470
******************************	ere programme de la companya de la		5,354	and the same		本本本小市内本本本本本本本本本本本本本本本本本
15 34 1017A	CS9A 1963	SF	81,	83340 GARBAGE HOUSE	3630 AMMO CO	207682 49471
1618	659A 1959	SF	1,299	_73065FALLOUT_SHELTER	3630 AMMO CO	206443 49480
15 1019	C59A 1960	SF	9,750	72111 UE2H E1/E4	3630 AMMO CO	206444 49490
15 1019	_ CS9A _ 1.960 _	SF	2,725	72112 UEPH E5/E5	3630 AMMD CO	206444 * 49500
水安布斯 化双克克 中北 电压电流 医水杨素	4		12,475			*********
15 1040	CS 9A 1 1950		160	83340 GARBAGE HUUSE	3630 AMMO CO	207688 49501
15 1421	C59A 1960	EA ·	1	75010 PLAYING COURT	3630 AMMO CC	1 206503 49510 `
15 1022	_ CS9A19A0	LA especial energy and the second second energy and the second e	1	75020 PLAYING FIELD	3630 AMMU CC	206502 49520
15 4023	CS9A 1960	EA	ï	75010 PLAYING COURT	3630 AMMO CO	206504 49530
15 1050	ู้ ดูบอน1 กรด	SF	3 +2 33	14320 ORD OPER BLDG	3630 AMMO CL	20644549540
15 1052	CU98 1959	SF	1,870	73020 POLICE STATION	3630 AMMU CC	206446 49550
15 1054	CU98 1963	, SP	120	14378 OP HAZ FLAM STG	3680 AMMO CC	205447 49560

FACILITIES ENGINEER DIVISION REPORT #02

PAC	SE PUC	e tradestate a		" QUARTEREY" BUTEDIN	REPORT #02 S NUMBER A	2 ASSIGNMENT	S"REPORT"			BIN14 DATE 15 JAN 198	36
***** CAMP CODE *** ******	enandria DLEG TNUTSER Enandria	12 12 13 14 15 15 15 15 15 15 15	CLIMS YEAR		** ** ** ** UN [[§ ** *****		· ** ** ** ** ** ** ** ** **	kurrer CMU CODE Sarrer	***********	**************************************	******** UPDATE NUMBER *******
15	1056	0098	1965	SP.	99	73076	KENNEL	3630	AMMO CO.	206448	49570
15	1.059	CAAV	1959	SF	100	14378	OP HAZ FLAM STG	3630	AMMO CO	206449	49580
15	1000	GV9A	1960	SESE	9,423	42132	THER STOREH	3630	AMMO CO	206450	. 49590
15	1.050	CV 4A	1900	SF	1,200		ACD/GEN INS BLD		CO OMMA	208450	49600
15	1 000	LV.9A	1960	S.F.	3,510	21610	AMMO REWRK OZH .	3630	AMMO CO.	206450	49610
15	1.050	CV9A	1980	SF	2,800	81159	STO-BY GENR BLD	3630	AMMO CO	206450	49620
****	. 44 44 4 WWW WW WW WW			gygg grug, ammet opmom als die offspelinke jagen wie die bestellt en eine die de klose en de stelle en des gebe	16,933	g . m.):	reference terminatures by the organization of the first		رس الأخرية	*******	
15	1061	QV 9A	1.959	SF	.2,425	42148	S ARMS/PYRD MAG	3630	AMMO CO	206451	49630
15	1 (m)	LVVA	1056	Comment of the American State of the Comment of the Comment	2+426	42172	MISSILE MAGAZIN	3630	AMMD CO.	206452	49640
15	1,102	CV 9A	1959	5F	2+426	42172	MISSILE MAGAZIN	3630	AMMO CO	206453	49650
15	1 66 4	CV1/A	1959	· · · · · · · · · · · · · · · · · · ·	2,426	42142	SMUKEDRUM_ST	3630	AMMO CO	200454	49660
15	1005	CAOV	1959	\$F	2:426	42172	MISSILE MAGAZIN	3630	AMMU CO	206455	49670
15	1006	(44)	1955	A T I A THE RESIDENCE OF THE A COMPANY OF THE SECOND PROPERTY.	2+426	42172	MISSILE MAGAZIN	3630	AMMO CO	206456	49080
15	1007	CA 8.4	1959	SF	2,426	42152	SMUKELESS/P/P/M	3630	AMMD CO	206457	49690
15	1.68	CANA	1950	SF	2,426	42172	MISSILE MAGAZIN	3630	AMMO CO "	206458	49700
15	11669	UV9A	1959	SP	2,426	42112	FUSEEDET MAG	3630	AMMO CO	206459	49710
15	1.07 C	CV GA	1960	SP principal designation of the second secon	2,426	42122	HIGH EXP HAG	3630	AMMO CO	206460	49720
15	1671	CV 9A	1960	SF	2,426	42122	HIGH EXP HAG	3630	AMMO CO	206461	49730
15	1 272	CVPA	1960		2,426	42152	SMUKELESS/P/P/M	3630	AMMO CO.	206462	49740
1>	1073	CAAV	1 45 3	SF	4,481	44112	STRG MAG CURPS	3630	AM 4U CU	206463.	49750
15	1073	CVVA	1953	SF	924	73036	LUNCHZLOCKER RM	3630	AMMO CO	205463	49760
**************************************	医维氏性病 克洛特 化二甲基	¢	•	·	5+405					** *****	****

FACILITIES ENGINEER DIVISION REPORT #02 QUARTERLY BUILDING NUMBER ASSIGNMENTS REPORT

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BIN14 DATE 15 JAN 1986

PAGE 201			QUANTERLY D	OTEDING ISSUER	#3210/MUSA F2 MCLOVI		DATE	12 JAN 170	, 0
**************************************	######################################	######################################	oxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx			******* CMD CUUE *****	*****************************	********** RECORD NUMDER ******	********* UPDATE NUMBER *******
CAMP HENOKO.	નીરે LA	236.00	ACRES	L. C. Land Grandstone in pricing developed long-self-up an operand 3-4 L. C. E. E. C. E. E. C. E. E. C. E. E.	in the second se			. ,	
15	0-4	1963	SY	1,773	45110 OPEN STORAGE AR	1520	FAC MAINT	206500	48780
15		1960	LF	213,793	81230. ELEC. DISTR LLINE	1520	FAC MAINT .	. 206505	48990 .
15 000		1.96.0	LF	59,933	81240 PERMTR/SEC LGHT	1520	FAC MAINT	206506	49000
15		1959		36,000	83130 SPETC TK/ON FLD	1520	FAC MAINT	206507	49010
15	V .	1959	LF	5,176	83210 SANITARY SEWER	1520	FAC MAINT	206510	49040
15	The state of the s	1959	LF	9,466	84210WTR/DIST/LN/POT	1520	FAC MAINT	206512	49050
15 a.v	Cog Se	9 1961	SY	72,351	85110 ROADS	1520	FAC MAINT	206513	49060
15		1961	SY	12,819	_B5210PARKING AREA	1520	FAC: MAINT	. 206514	49070 ·
15	,i ·	1 40 1	SY	4,830	85220 SIDEWALK	1520	FAC MAINT	206515	49080
15		1961		9,067	87110STORM_SEWER	.1520.	FAC. MAINT	206516	49090
15		1501	LF	28,529	87120 ORAINAGE DITCH	1520	FAC MAINT	206517	49100
15		1761	LF	724	87135 RETAINING WALL	1520	FAC MAINT	206518	49110
16 54		1961	LF	54,702	A7210 SCRTY FNCE/WALL	1520	FAC MAINT	206519	49120
15	r Street of the temperature relation with the	196C	.,, 	6,643	81220STREET.LIGHTING	1520	FAC MAINT.	206520	. 49130
15		1.49.1	L.A	1	88030 AIR RAID AL SYS	1520	FAC MAINT	206522	49150
15		1983	ŢΑ	Lamera Carlos Company	UBOBO JAIR RAID AL SYS	\$ 1520	FAC MAINT	207635	49155
15 "		1960	£: A	4	83330 GARBAGE STAND	1520	FAC MAINT	207689	49156
你你我看个大会你没看你呀	****		processor in the second of	515,838	e e e e e e e e e e e e e e e e e e e			* *** ** * * * * * * * * * * * * * * * *	*****
15 - 100	0 0194	1 95,0	51	81	73025 GATE/SENTY HSE	3630	AMMO CO	206376	49160
15 - 16	QA CT93	1959	5.6	156	21920 PAVZGRND EQ SH	3630	AMMO CO	204277	49 170

PACILITIES ENGINEER DIVISION
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QUARTERLY HULLDING NUMBER ASSIGNMENTS REPORT

BIN14 DATE 15 JAN 1986

本サウタイタル CAMP CUDE を必要をつかな	事業等を必要が必要を表現 はしては NUMPER	**************************************	本本本の表示。 CTIV 2 本本本のである。	ቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀቀ	本代本名称本本本本本本 「N2 「N2	UNITS	USE CAT ****	*******************	(*******	****** -00E -00E	USEK	RECORD Saendo Seendo Se	UPDATE NUMBER *******
15	1074	CVOA	1968		SF , page	1,880	21610	AMMO KEWRK	UZH :	3630	AMMO CO	. 206464	49770
15	1076	CUBA	1981	. :	Së i	· 48	73.056	MISC WTHR S	HLTR :	3630	AMMO CO	207687	49781
15	1680	CW(CVOA	1953	and the second of the second o	, \$F	2,475	42142	_SMOKEDRUM_S	T	3630 .	AMMO CO.	206466	49790
15	1(81)	eW (CV) JA	1967		SF	2,475€	42122	HIGH EXP MA	١G ,	3630	AMMO CO	206467	49800
15 .67 .	1.663	CM (C)	1963		SH	2,475	42152	SMOKELESS P	- M/4/	3630	AMMD CO	206468	49810
15	1 0 8 3	CW CV94	1983		SF	2,475	42152	SMOKELESS P	/P/M :	3630	AMMU ÇU	206469	49 820
15	1084	CM (CV) W	1903	a a waa a lag sag sa a sa a sa ment de a s	Sr Jan Law	2:475	42152	_SMUKELESS_F) M/4/	3630 .	AMMU CO	206470	. 49830
15	1085	CW (CY ON	1008		SF	2,475	42152	SMUKELESS F	12/M	3630	AMMO CO	206471	49840
15	1 11.17	CW91	1956		5F	68	72025	GATE/SENT F	HOUSE .	9630	AMMO CO	206472	49850
15	1090	CX98 -	1 964		SF	2,455	42142	SMUKERUM ST	Г	3630	AMMO CO	206473	49860
15 .	1041	CX98	1984	and the same of the first	\$8	2,455	42122	"HIGH EXP"MA	A G	3630	AMMU CO	206474	49870
15	16.45	4998	1986		SF	2,455	42122	-НІЗН ЕХР М <i>і</i>	A.G	3630	AMMU CO	206475	49880
15	£483	E CY40	1966		\$F	24455	42142	SMOKERUM S	r	3630	AMMO CO	206476	49890
15	1094	CYPO	1966		s#	2,455.	42152	SMOKELSS/P.	/P/M	3630	AMMO CO	206477	49900
1,5	1 101 44	CX9a	1971	and the state of t	SF	1,111	11120	_HESPTR_EDG	PAÜ	3630	AMMO CU	206496	49910
15	1095	СХЧЗ.	1966		5 Y -	2,455	42152	SMJKELESS/	MANA	3630	AMMU CO	206478	49920
15.	1096	CX98	1966		SF	2,455	42122	HIGH EXP M	A G	2630	AMMO CO	206479	49930
15	1097	EX44	1 406	1 man of the Bills of the same and a distance	5F	208	42148	S ARMS/PYR	D MAG	3630	AMMO CO	206480	49940
15	1097	CX 99	1966	an early and the second	SF	1+874	42122	HIGH EXP M	AG	3630	AMMO CO	206480	49950
15	1.797	CX 99	1 766	-	5F	2,082	42112	FUSE & DET	MAG	3630	АММО СО	206480	49960
	**************	*		•		4,164		412.3				** * ** **	*****

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REPORT #62
QUARTERLY BUILDING NUMBER ASSIGNMENTS REPORT

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C AMP C (1) F 1 * * * * * *	""NUMBER"	6.) MAP CINS (MITGRAN X	1 UN	","ŲNITS,	USE	. DESCRIPTIUN	CMO.	USER	RECURD HUMBER	UPDATE NUMBER
15	इंग्लिक	CX99 1966				. HIGH EXP MAG	3630	AMMO CO	206491	49970
15	1099	CX 99 1 966	SF .	2,455	42122	HIGH EXP MAG	3630	AMMO CO	206482	49980
.15	1106	CV991989	\$F	08	73025	GATE/SENTHOUSE	3630	AMMO CO	. 206483	49990
15	1101	GV99 1969	SF	2+455	42112	FUSE & DETO MAG	3630	AMMO CO	206484	50000
15	1.10.7	CA an I no a	5F	. 21455	42148	S ARMS/PYRO MAG	3630	AMMO CO	206485	50010
15	1103	CA60 1000	SIF	2:455	42149	S ARMSZPYRO MAG	3630	AMMO CO	206486	50020
15	1.104	LINE CHARLES TOOK		2+455	42148 .	"S ARMSZPYRO MAG	3630	AMMO CO	206487	50030
15	£205	CM 44 1 959	SF	2,455	42148	S ARMSZPYRU MAG	3630	AMMU CO	206488	50040
15	1.106	CV99 - 1969	\$F	2∓455	42122	HIGH EXP MAG	3630	AMMO CO	206489	50050
15	11.7	CM 04 1 40 4	SF 3 75	2,455	42142	SMOKERUM ST	3630	AMMO CO	206490	50060
15	1136	CW99 1969	\$F	2,455	42148	S ARMS/PYRO, MAG	3630	AMMO CO	206491	50070
15	1100	CM(क्य) पर १ परु १	44	2:455	42152	SMJKELESS/P/P/M	3630	AMMO CO	206492	50080
15	1110	CK(24) 18 1.101	5F		42152	SMOKELESS/P/P/M	3530	AMMO' CO	208493	. 20090
15	1111	CW99 1969 36	\$H	2,455	42152	SMOKELESS/P/P/M	3630	AMMO CO	206494	50100
_ 15	1112	LW94 1004) 41	SF	2 ,455	42152	_SMUKELESS/P/P/M	3630	AMMO CU	206495	50110
15	15 K	CT98 1960	, KV	750	81212	TRANSFOR STA	1520	FAC MAINT	207152	50120
15	TS 10	धीया १७०१	۴V	112	81212	TRANSFOR STA	15/20	FAC MAINT	207153	50130
15	TS 12	CT98 1960	ĸ٧	150	81212	TRANSFUR STA	1520	FAC MAINT	207154	50140
15	TS 13	CF96 1960	KV	112	81212	TRANSFOR STA	1520	FAC MAINT	207684	50141
15	FS 14	0196 1960	ΚV	112	81212	TRANSFUR STA	1520	FAC MAINT	207155	50150
15	- T5 15	C198 1960	ΚV	112	81212	TRANSFOR STA	1520	FAC MAINT	207685	50151

FACILITIES ENGINEER DIVISION REPORT #02 QUARTERLY BUILDING MAMBER ASSIGNMENTS REPORT

BIN14 DATE 15 JAN 1986 ながら、40gia pagia MUARER KEÇOKU NUMAER UPDATE NUMBER 1: f5 16 C 1 9 H 196081212 TRANSFOR STA 1520 FAC MAINT 207665 50152" 15 15 17 CYPR - I Vert 112 01212 TRANSFOR STA 1520 FAC MAINT 207156 50160 15 TS IN 50. 1,460 _81212__TRANSFOR STA 1520 FAC MAINT 207157 50170 TS 21 15 C19e 1960 75 81212 TRANSFOR STA 1520 FAC MAINT 207158 50180 UP-PUILDINGS FOR CAMP CODE IS IS

NAVSEA 8020	/7 (HEV. 11-82) (BACK)				PAGE 2 OF 8
BLOG, NO.	TYPE AND SIZE	STOWAGE ASSIGNMENT AND APPROVED CAPACITY	KIND OF MATERIAL STOWED	AVAILABLE STOWAGE CAPACITY	REMARKS
(1)	(2)	(3)	(4)	(5)	(6)
1067A LRX1	H.E. 66'X150'	MIXED STOW (20,000)	EMPTY	100%	NOTES #1,2,4
1068 1ACX8	H.E. 25'X80'X12'	MISSILES (NO LIMIT)	EMPTY	100%	
1069 1ACX9	H.E. 25'X80'X12'	PRIMERS (NO LIMIT)	PRIMERS FIRING DEVICES	50%	NOTE #6
1070 1ACX10	H.E. 25'X80'X12'	SEMI-FIXED (NO LIMIT)	MORTARS	70%	
1071 1ACX11	H.E. 25'X80'X12'	SEMI-FIXED (NO LIMIT)	MORTARS PRAC ROCKETS	90%	NOTE #3
1072 1ACX12	H.E. 25'X80'X12'	MISSILES (6,500)	MISSILES	80%	NOTES #3,6
1080 1ACX13	H.E. 25'X80'X12'	CHEMICAL WP (500,000)	WHITE PHOSPHORUS	25%	NOTES #3,6
1081 1ACX14	H.E. 25'X80'X12'	MIXED STOW (30,000)	MIXED STOW	0%	NOTE #4
1082 1ACX15	H.E. 25'X80'X12'	SEMI-FIXED (500,000)	ARTILLERY	85%	NOTE #3
1083 1ACX16	H.E. 25'X80'X12'	SEMI-FIXED (100,000)	SEPARATE LOADING PROJ	80%	NOTE #3
1084 1ACX17	H.E. 25'X80'X12'	MISSILES (55,000)	GUIDED MISSILES	0%	NOTE #3

HAVSEA 8023	7 (AEV. 11-82) (BACK)				PAGE 3 OF 8
BLOG, NO.	TYPE AND SIZE	STOWAGE ASSIGNMENT AND APPROVED CAPACITY	KIND OF MATERIAL STOWED	AVAILABLE STOWAGE CAPACITY	REMARKS
(1)	(2)	(3)	(4)	(5)	(6)
1085 1ACX18	H.E. 25'X80'X12'	MISSILES (30,000)	GUIDED MISSILES	0%	NOTE #3
1090 1ACX19	H.E. 25'X80'X12'	ILLUMINATING PROJ (NO LIMIT)	ILLUMINATING PROJECTILES	15%	
1091 1ACX20	H.E. 25'X80'X12'	DYNAMITE (55,000)	DYNAMITE DEMO CHARGES	70%	NOTE #3
1092 1ATX21	H.E. 25'x80'x12'	HIGH EXPLOSIVE (20,000)	EMPTY	100%	NOTE #3
1093 1ACX22	H.E. 25'X80'X12'	SMOKELESS POWDER (500,000)	PROP CHARGES	30%	NOTE #3
1094 1ATX23	H.E. 25'X80'X12'	LOADED MINES (20,000)	DEMOLITIONS	60%	NOTE #3
1095 1ATX24	H.E. 25'X80'X12'	FIXED AMMUNITION (30,000)	ARTILLERY	30%	NOTE #3
1096 1ACX25	H.E. 25'X80'X12'	LOADED MINES (65,000)	DEMOLITIONS	45%	NOTE #3
1097	MULTI-CUBE	SEE BELOW	SEE BELOW	SEE BELOW	SEE BELOW
CUBE 1 1XC26A	SMALL ARMS 9'X7'X8'	SMALL ARMS (NO LIMIT)	SMALL ARMS	5%	NOTE #6,3
CUBE 2 1XC26B	SMALL ARMS	SMALL ARMS (NO LIMIT)	SMALL ARMS	10%	NOTE #3
CUBE 3 1XC26C	SMALL ARMS 9'X7'X8'	SMALL ARMS (NO LIMIT)	SMALL ARMS	10%	NOTE #3



AMMUNITION COMPANY 30 SUPPLY BATTALION

3D FORCE SERVICE SUPPORT GROUP FLEET MARINE FORCE, PACIFIC FPO SAN FRANCISCO 95604-8810

> 8023 JAN 0 9 1986

From: Commanding Officer, Ammunition Company

To: Commander, Naval Sea Systems Command (Sea-06H)

Department of the Navy, Washington, D.C. 20362

Via: (1) Commanding Officer, 3D Supply Battalion (-) (rein),

3D Force Service Support Group, Fleet Marine Force,

Pacific.

Commanding General, Marine Corps Base, Camp S.D.
er (ATTN: G-4 Facilities).
Commanding General, Fleet Marine Force, Pacific (4GA)
Commandant of the Marine Corps (Code LMG)

AL STORAGE REPORT

NAVSEA OP5 VOL I (Fourth Revision) Para. 9-2.
MCO 8020.1F

Subject Report

references, Enclosure (1) is submitted.

R. L. HAYNES

OR

REPORT Commanding General, 3D Force Service Support Group, Fleet Marine Force, Pacific.

Butler (ATTN: G-4 Facilities).

(4)

(5)

ANNUAL STORAGE REPORT Subi:

Ref:

(b)

Encl: (1)

Per the references, Enclosure (1) is submitted.

ANNUAL REPORT OF STOWAGE DISTRIBUTION OF AND AVAILABLE SPACE FOR AMMUNITION, EXPLOSIVES AND INERT ORDNANCE MATERIAL NAVSEA OP5, VOLUME 1

1-AVSEA 8073/7 (REV 11 82) (FRONT)

S N 0116 LF C	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				PORT SYMBOL NAVSEA 8023
Anmuni'i	iôn Company 3	23 December 1985 PAGE 1 of 8			
TO COMMANDER NAVAL SEA SYSTEM COMMAND (SEA OGH)				REPORT FOR CALENDAR VE 31 December 19	. ,
BLOG, NO	TYPE AND SIZE	STOWAGE ASSIGNMENT AND APPROVED CAPACITY	KIND OF MATERIAL STOWED	AVAILABLE STOWAGE	REMARKS
(1)	131	(3)	[4]	(5)	(5)
1061 LACX1	H.E. 25'X80'X12'	CHEMICAL (40,000)	DOC DESTROYER INCED. GRENADE	95%	NOTE #6
1062 1AC2	H.E. 25'x80'x12'	CHEMICAL (500,000)	EMPTY	100%	
1063 LAC3	H.E. 25'X80'X12'	ROCKET MOTOR (10,000)	MOTORS	80%	NOTE #6
LOG4 LACX4	H.E. 25'x80'x12'	CHEMICAL (500,000)	CHEMICAL (C.S.)	95%	NOTES #2,6
LOG5 LACX5	H.E. 25'X80'X12'	H.E. GRENADES (10,000)	GRENADE, HAND FRAG	55%	NOTE #3
.066 .ACX6	H.E. 25'X80'X12'	MISSILES (25,000)	GUIDED MISSILES	50%	NOTE #3
.067 .ACX7	H.E. 25'X80'X12'	ROCKET H.E. WARHEAD (30,000)	ROCKET H.E.	65%	NOTE #3
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NAVSEA 8023/7 (HEV. 11 82) (BACK)					
BLOG, NO.	TYPE AND SIZE	STOWAGE ASSIGNMENT AND APPROVED CAPACITY	KIND OF MATERIAL STOWED	AVAILABLE STOWAGE CAPACITY	REMARKS
{1}	[2]	151	(4)	(5)	(6)
CUBE 4 1XC26D	SMALL ARMS 9'x7'x8'	SMALL ARMS (NO LIMIT)	EMPTY	100%	NOTE #3
CUBE 5 1XC26E	H.E. 9'X7'X8'	FUZES/DETONATORS (12,000)	BLASTING CAPS	10%	NOTE #3
CUBE 6	FUZES/PRIMERS/ DETONATORS	PRIMERS	EMPTY	100%	NOTE #3
1XC26F	9'X7'X8'	(NO LIMIT)			
CUBE 7 1XC26G	SMALL ARMS 13'X15'	SMALL ARMS (NO LIMIT)	SMALL ARMS	50%	NOTE #3
CUBE 8 LXC26H	SMALL ARMS 13'X15'	SMALL ARMS (NO LIMIT)	SMALL ARMS	50%	NOTE ∜3
CUBE 9	FUZES/PRIMERS/ DETONATORS 13'X15'	DETONATORS	BLASTING CAPS	10%	NOTE #3
CUBE 10	FUZES/PRIMERS/ DETONATORS 13'X15'	DETONATORS	FUZES	50%	NOTE #3
CUBE 11 1XCX26K		SMALL ARMS (NO LIMIT)	EMPTY	100%	NOTE #3
	SMALL ARMS	SMALL ARMS (NO LIMIT)	EMPTY	100%	NOTE #3
CUBE 13 1XCX26M	H.E. 13'X15'	CHEMICAL (2000)	EMPTY	100%	NOTE #3
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BLDG. NO.	TYPE AND SIZE	STOWAGE ASSIGNMENT AND APPROVED CAPACITY	KIND OF MATERIAL STOWED	AVAILABLE STOWAGE	REMARKS
(1)	(2)	(3)	(4)	(5)	(6)
CUBE 14 1XCX26N	H.E. 13'X15'	HIGH EXPLOSIVE (5000)	EMPTY	100%	NOTE #3
CUBE 15 1XCX260	H.E. 13'X15'	HIGH EXPLOSIVE (5000)	EOD MATERIAL HIGH EXPLOSIVE	0.8	NOTE #3
CUBE 16 1XCX26P	H.E. 13'X15'	BLACK POWDER (10,000)	EOD MATERIAL HIGH EXPLOSIVE	08	NOTE #3
CUBE 17 1XCZ26Q	H.E. 13'X15'	CHEMICAL (NO LIMIT)	EOD MATERIAL INCENDIARY	08	NOTE #3
CUBE 18 LXCX26R	H.E. 13'X15'	HIGH EXPLOSIVE (5000)	EOD MATERIAL HIGH EXPLOSIVE	0%	NOTE #3
CUBE 19 LXC 26S	SMALL ARMS	SMALL ARMS (NO LIMIT)	SMALL ARMS	50%	NOTE #3
CUBE 20 LXCX26T	H.E. 13'X15'	HIGH EXPLOSIVE (5000)	HIGH EXPLOSIVE	50%	NOTE #3
CUBE 21	SMALL ARMS	SMALL ARMS	BATTERY	75%	NOTE #3
LXC 26U	13'X15'	(NO LIMIT)	COOLANT UNITS	v	1
	CHEMICAL 13'X15'	CHEMICAL (2000)	EMPTY	100%	NOTE #3
CUBE 23 LXCX26W	H.E. 13'X15'	HIGH EXPLOSIVE (5000)	HIGH EXPLOSIVE	50%	NOTE #3
CUBE 24 LXCX26X	H.E. 13'X15'	HIGH EXPLOSIVE (5000)	ЕМРТУ	100%	NOTE #3

NAVSEA BOZZ	7 (MEV. 11 82) (BACK)				PAGE 7 OF 8
BLDG. NO.	TYPE AŅD SIZE	STOWAGE ASSIGNMENT AND APPROVED CAPACITY	KIND OF MATERIAL STOWED	AVAILABLE STOWAGE CAPACITY	REMARKS
(1)	(2)	(3)	(4)	(5)	. (6)
1104 1AC32	H.E. 25'X80'X14'	SMALL ARMS AMMO (NO LIMIT) (1811765 UNITS)	SMALL ARMS	20%	
1105 1AC33	H.E. 25'X80'X14'	FIXED AMMUNITION (500,000) (583,181 UNITS)	FIXED AMMO SMALL ARMS	10%	N-Carve
1106 1ACX34	H.E. 25'X80'X14'	PRIMERS/FUZES/ DETONATORS (25,000) (12633 UNITS)	FUZES	30%	NOTE #3
1107 1AC35	H.E. 25'x80'x14'	SMOKELESS POWDER (500,000)	SMOKELESS POWDER	10%	u = 1.00
1VC3é 1108	H.E. 25'X80'X14'	PYROTECHNICS (500,000)	PYROTECHNICS	5%	
1109 1ACX37	H.E. 25'x80'x14'	CHEMICAL (500,000) (2000 UNITS)	H.C SMOKE PROJ	30%	NOTE #3
1110 1ACX38	H.E. 25'X80'X14'	SEMI-FIXED PROJ (20,000)	ЕМРТҮ	100%	NOTE #3
llll lacx39	H.E. 25'X80'X14'	FIXED AMMUNITION (500,000)	FIXED AMMO ARTILLERY	20%	NOTE #3
1112 1ACX40	H.E. 25'X80'X14'	SEMI FIXED PROJ (500,000)	SEMI FIXED	75%	NOTE #3
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MAVS SAA 8023/7 (HEV 11 82) (BACK)					
BLOG. NO.	TYPE AND SIZE	STOWAGE ASSIGNMENT AND APPROVED CAPACITY	KIND OF MATERIAL STOWED	AVAILABLE STOWAGE CAPACITY	REMARKS
(1)	. (2)	(3)	(4)	(5)	(6)
CUBE 25 1XCZ26Y		PYROTECHNICS UNSERVICEABLE (NO LIMIT)	PYROTECHNICS	8.0.8	NOTE #3
CUBE 26 1XCZ26Z	SMALL ARMS 9'X7'	SMALL ARMS UNSERVICEABLE (NO LIMIT)	SMALL ARMS	80%	NOTE #3
CUBE 27 1XC26AA	SMALL ARMS 9'X7'	SMALL ARMS UNSERVICEABLE (NO LIMIT)	SMALL ARMS	15%	NOTE #3
CUBE 28 1XCY26B B	SMALL ARMS 9'X7'	CHEMICAL UNSERVICEABLE (NO LIMIT)	CHEMICAL	100%	NOTE #3
1098 1ACX27	H.E. 25'X80'X14'	SEMI-FIXED PROJ (25,000)	SEPERATE LOADED	8%	NOTE #3
1099 1ACX28	H.E. 25'X80'X14'	INERT MATERIAL (500,000)	PROJECTILES	25%	
1101 1AC29	H.E. 25'X80'X14'	SMALL ARMS AMMO (500,000)	SMALL ARMS	10%	
1102 1AC30	H.E. 25'X80'X14'	SMALL ARMS AMMO (500,000) (6723312 UNITS)	SMALL ARMS	45%	
1103 1AC31	H.E. 25'X80'X14	PRIMERS/FUZES/ DETONATORS (500,000) (805709 UNITS)	SMALL ARMS	20%	