

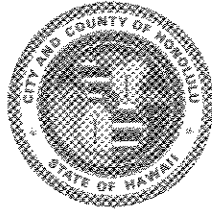
DEPARTMENT OF PARKS AND RECREATION
CITY AND COUNTY OF HONOLULU

650 SOUTH KING STREET
HONOLULU, HAWAII 96813

716

RECEIVED

FRANK F. FASI
MAYOR



'89 DEC 26 12:23

WALTER M. OZAWA
DIRECTOR

HIROAKI MORITA
DEPUTY DIRECTOR

OFFICE OF ENVIRONMENTAL
QUALITY CONTROL

December 19, 1989

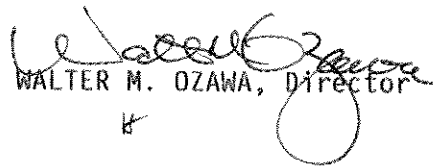
Dr. Marvin T. Miura
Office of Environmental Quality Control
State of Hawaii
Kekuanaoa Building, Room 104
465 South King Street
Honolulu, Hawaii 96813

Dear Dr. Miura:

Subject: Negative Declaration for Construction of
a Bathhouse, Private Wastewater Treatment Facility,
Outdoor Showers and Related Site Improvements
at Kahana Bay Beach Park

We are forwarding for your review and publication in the OEQC Bulletin a Negative Declaration and four copies of the Environmental Assessment for construction of a bathhouse, private wastewater treatment facility, outdoor showers and related site improvements at Kahana Bay Beach Park.

Sincerely,


WALTER M. OZAWA, Director

WMO:js

Attach.

1990-02-23-0A+FR

FILE COPY

Environmental Assessment
for
* Construction of a Bathhouse and Related Appurtenances
at
Kahana Bay Beach Park *
Koolauloa, Oahu

Proposing Agency: Department of Parks and Recreation
City and County of Honolulu

Agencies Consulted: Department of Land and Natural Resources
Department of Health
Board of Water Supply
Department of Public Works
Department of Land Utilization
Department of Transportation Services
Department of General Planning
Department of the Army
Department of the Interior
Hawaiian Telephone
Hawaiian Electric, Inc.
Koolauloa Neighborhood Board No. 28

I. General Description of the Action's Technical, Social and Economic Characteristics

A. Technical Characteristics

The proposed action includes construction of a bathhouse (36' long x 19' wide x 11' high), outdoor showers, a private wastewater treatment facility consisting of an 8' diameter x 8' deep trash and grease tank, 10' diameter x 35' long aeration tank, 8' diameter x 10' deep clarifier tank, 8' diameter x 36' deep drain pit, utility hookups and related site work.

With the exception of the pumping mechanism which will be located within the bathhouse, all components of the wastewater treatment facility will be placed underground and will be covered by a cement slab which will also be used as a walkway/entryway to the new bathhouse.

The new wastewater treatment facility includes both primary and secondary treatment units. An added precautionary feature is the system's capability of recycling any sludge which remains after being initially processed through the system and prior to being pumped into the drain pit.

The new facility has been designed to treat waste loads well above that which are expected to be generated by the estimated 900 weekly park users. (Refer to attached plan for design data.)

Soil type found in the project area is identified as Jaucas sand, 0 to 15 percent slopes. Soil is neutral to moderately alkaline. Permeability is rapid and runoff is very slow to slow. The hazard of water erosion is slight, but wind erosion is a severe hazard where vegetation has been removed. The available water capacity is 0.5 to 1.0 inch per foot of soil.

C. Land Use Policies

Land use designations for the project site are:

State Land Use Map:	Conservation
Development Plan:	Preservation
City and County Zoning:	Preservation
Existing Use:	Park

D. Access

The only means of access to the park site is via Kamehameha Highway.

E. Historic Preservation

There are no recorded archaeological sites on the property. The nearest sites listed on the Hawaii and/or National Register are identified as the Hanawao Heiau (TMK: 5-2-02: 1) and Huilua Fishpond (TMK: 5-2-05: 21). These are on State property and located at a distance from the beach park.

F. Coastal Zone Management

The project area is located within the City and County's Special Management Area. Park development will comply with statutory objectives, policies and guidelines for development within this area.

G. Floodplain Management

Portions of the park site are located in Zone AE (special flood hazard area inundated by the 100-year flood with a base flood elevation of eight feet) and in Zone X (areas determined to be outside the 500-year floodplain).

The specific site for the new bathhouse and appurtenances lies within Zone X.

H. Flora/Fauna

There are no endangered species of flora or fauna on the project site.

Plant species found at the park site include ironwood (Casuarina equisetifolia), false kamani (Terminalia catappa), octopus (Brassaia actinophylla), coconut (Coco nucifera), spider lilies (Paneratium littorale), wedelia (Wedelia trilobata) and pohuehue (Ipomoea pes-caprae).

Animals in the area include many of the species found throughout the island, such as the sparrow, mynah, feral cats and dogs, mongoose, cardinal, doves, bulbul and mejiro.

Huilua Fishpond, located on the southeastern side of Kahana Bay, is a potential habitat for endemic waterbirds such as the gallinule and coot.

I. Noise/Air Quality

At present, the primary sources of noise and air pollutants are vehicular traffic and exhaust emissions from vehicles.

Construction activities will be the direct cause for increases in noise levels and air pollutants.

Noise generated by park users will have little or no impact on residents since most residences are located at a distance from the park site.

J. Water Quality

Kahana Bay waters are designated as Class AA. These waters are to be kept in their natural pristine state as nearly as possible with an absolute minimum of pollution or alteration of water quality from any human-caused source or actions.

The uses to be protected in this class of waters are oceanographic research, the support and propagation of shellfish and other marine life, conservation of coral reefs and areas, compatible recreation and aesthetic enjoyment.

Kahana Bay is primarily used for picnicking, camping and swimming.

K. Utilities

Water, electrical and telephone services are available. The Board of Water Supply's Kahana Wells provide water for this area as well as the Kaneohe, Kailua and Waimanalo areas.

There are no municipal sewers in this area.

III. Identification of Impacts and Mitigation Measures.

A. Construction Activities

Construction activities are expected to produce air pollutants and noise levels beyond normal conditions. Activities will be restricted to normal daylight working hours and confined to specified areas. Contractors are expected to comply with State Department of Health regulations on community noise control and air pollution control.

B. Historic Preservation

Although there are no archaeological sites listed or eligible for listing on the local and/or national register, there is a possibility that subsurface historic remains may be discovered.

The State Historic Preservation Office has indicated an interest in having an archaeologist monitor subsurface trenching. The Department of Parks and Recreation will inform the State of the project's construction schedule.

Should significant artifacts be discovered during site preparation work, construction will cease and a mitigation plan for preservation will be developed.

C. Coastal Zone Management

Kahana Bay Beach Park lies entirely within the Shoreline Management Area. Pursuant to Chapter 33, Revised Ordinances of Hawaii, an SMA permit will be required.

D. Water Quality/Wastewater Disposal

As previously discussed, waters of Kahana Bay are classified as Class AA. This classification is the most restrictive in terms of water quality protection.

Pursuant to Chapter 11-62 of the State Department of Health's Administrative Rules, the use of cesspools as a means of disposing wastewater is prohibited for public buildings. In compliance with this regulation, a private wastewater treatment facility will be provided. This facility has been designed for both primary and secondary treatment and is also capable of recycling any sludge which remains after being initially processed through the system and prior to being pumped into the drain pit.

IX. Identification of Alternatives

The only alternative available is "no action". This alternative is not considered viable for the following reasons:

- A. Kahana Bay is a long linear park. The single comfort station on the Kahuku end is not centrally located to serve park users throughout the park.
- B. There will continue to be a potential hazard caused by park users crossing Kamehameha Highway to use the State's comfort station.
- C. Campers and other park users will continue to use the bushes and the water for their personal needs if a 2nd comfort station is developed. This second facility will relieve the people of a long walk especially at night and eliminate a potential health problem.

V. Determination

Implementation of the proposed action will not result in any detrimental impacts on the environment. Therefore, pursuant to Chapter 343, Hawaii Revised Statutes, an Environmental Impact Statement is not required.

VI. Reasons Supporting Determination

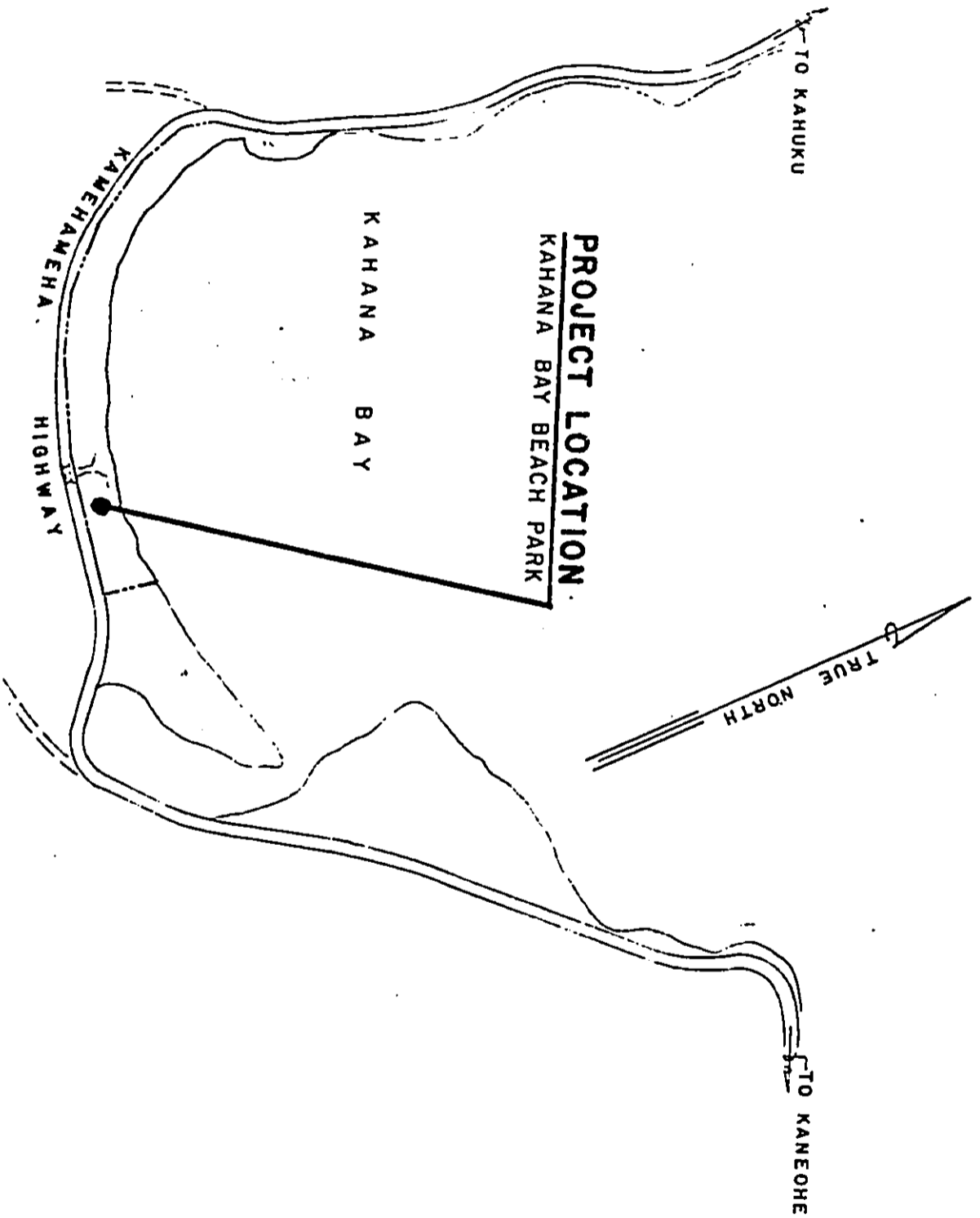
- A. No long-term, negative impacts are anticipated.
- B. Kahana Bay is a long, narrow beach park which stretches approximately one-third mile. At present, there is only one comfort station. This comfort facility is located at the Kahuku end of the park and does not adequately serve park users along the Kaneohe end of the park. Park users on this end are now walking across the busy Kamehameha Highway to use the State park's comfort station. The new bathhouse will be situated approximately 1,200 feet from the existing facility and should eliminate potential hazards of users crossing the highway.
- C. The wastewater treatment facility has been designed to ensure proper treatment of sewerage prior to being discharged underground.
- D. Short-term impacts will be directly associated with construction activities. Increase in noise levels, air pollutants and traffic will be mitigated in accordance with applicable State and County regulations.

VII. Permits/Approvals

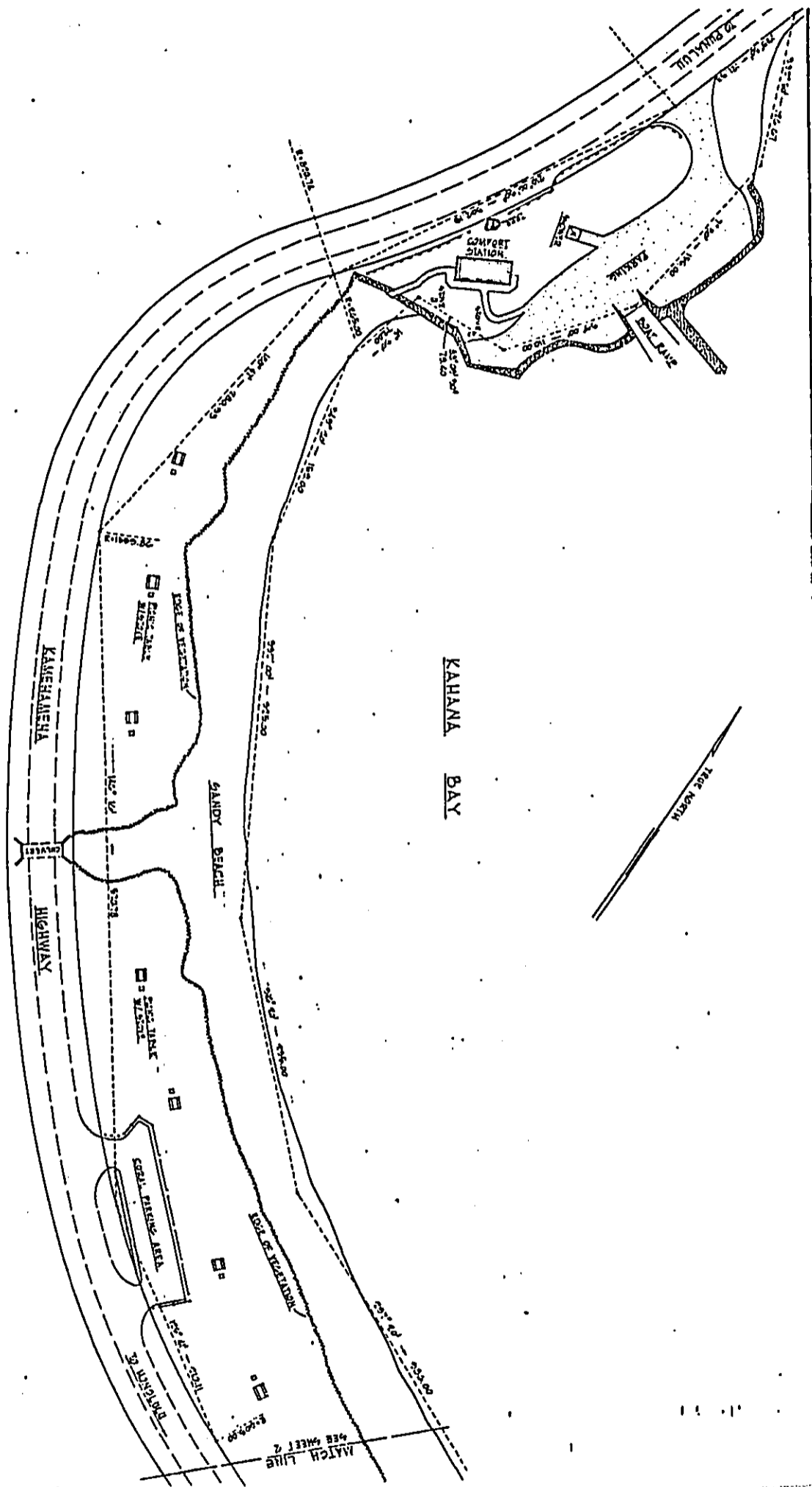
- A. Conservation District Use Permit, Department of Land and Natural Resources, State of Hawaii.
- B. Regulation of Sewerage and Wastewater Treatment Systems, Department of Health, State of Hawaii.
- C. Special Management Area Use Permit, Department of Land Utilization, City and County of Honolulu.

VIII. References

- A. Board of Water Supply, Environmental Impact Assessment for Kamehameha Highway 30-Inch Main Realignment and Relocation at Kahana Stream, December 1986.
- B. Board of Water Supply, Environmental Impact Statement for Kahana "315" Reservoir Project, December 1982.



LOCATION PLAN
NOT TO SCALE



40 0 40 80
SCALE IN FEET
AREA: 8154 Acres

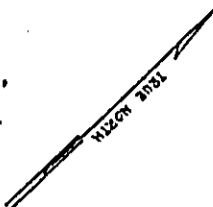
DEPARTMENT OF PARKS & RECREATION CITY & COUNTY OF HONOLULU		DATE: 11-11-11	
KAHANA BAY BEACH PARK SITE IMPROVEMENT		DRAWN BY: []	
DESIGNED BY:	REVISIONS BY:	CHECKED BY:	DATE:
APPROVED BY:	DATE:	DATE:	DATE:
PROJECT NO.:	PROJECT NAME:	PROJECT LOCATION:	PROJECT STATUS:

X MAP NET: 5-2-05-3

MATCH LINE
SEE SHEET 1

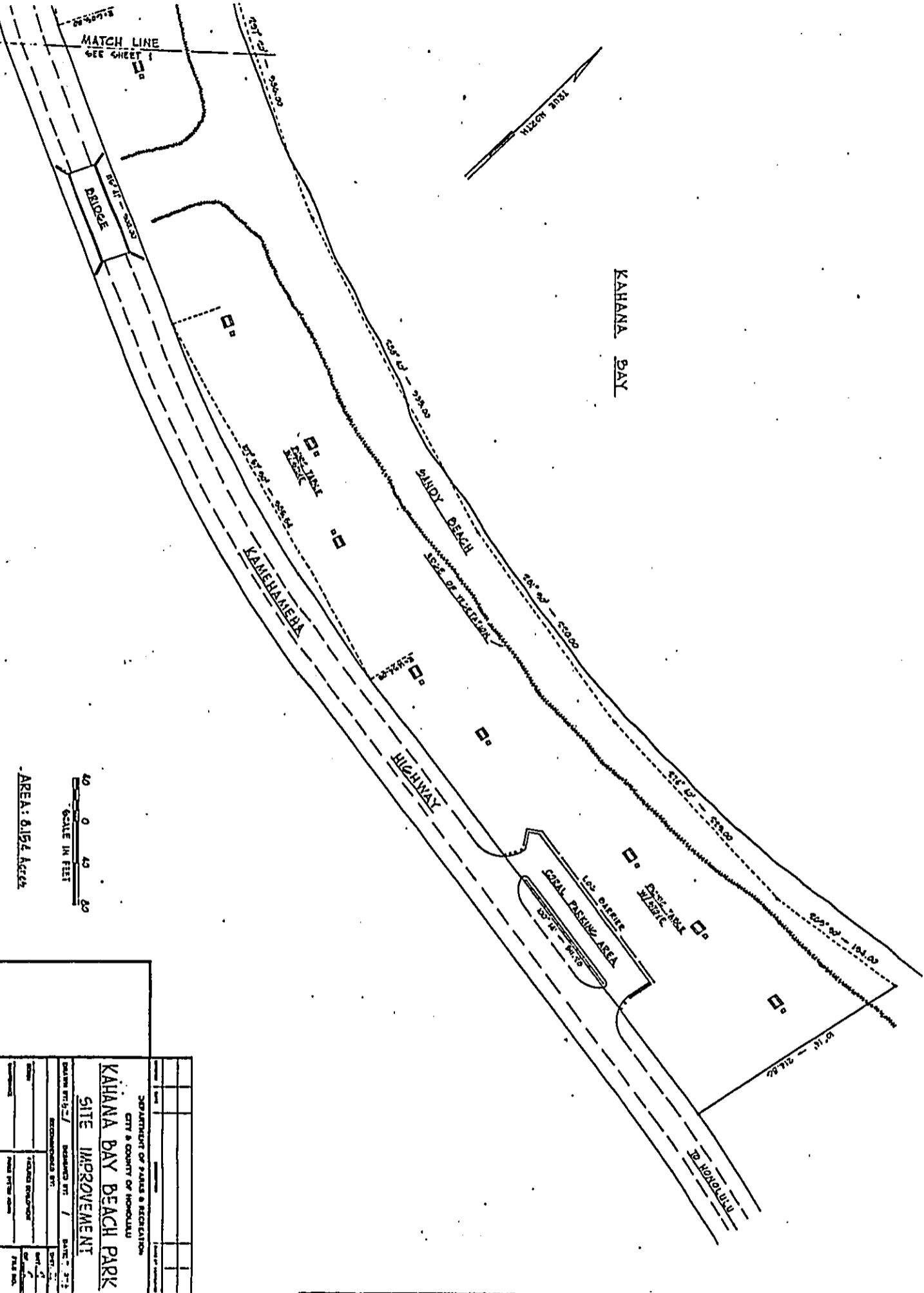
BRIDGE

KAHANA BAY

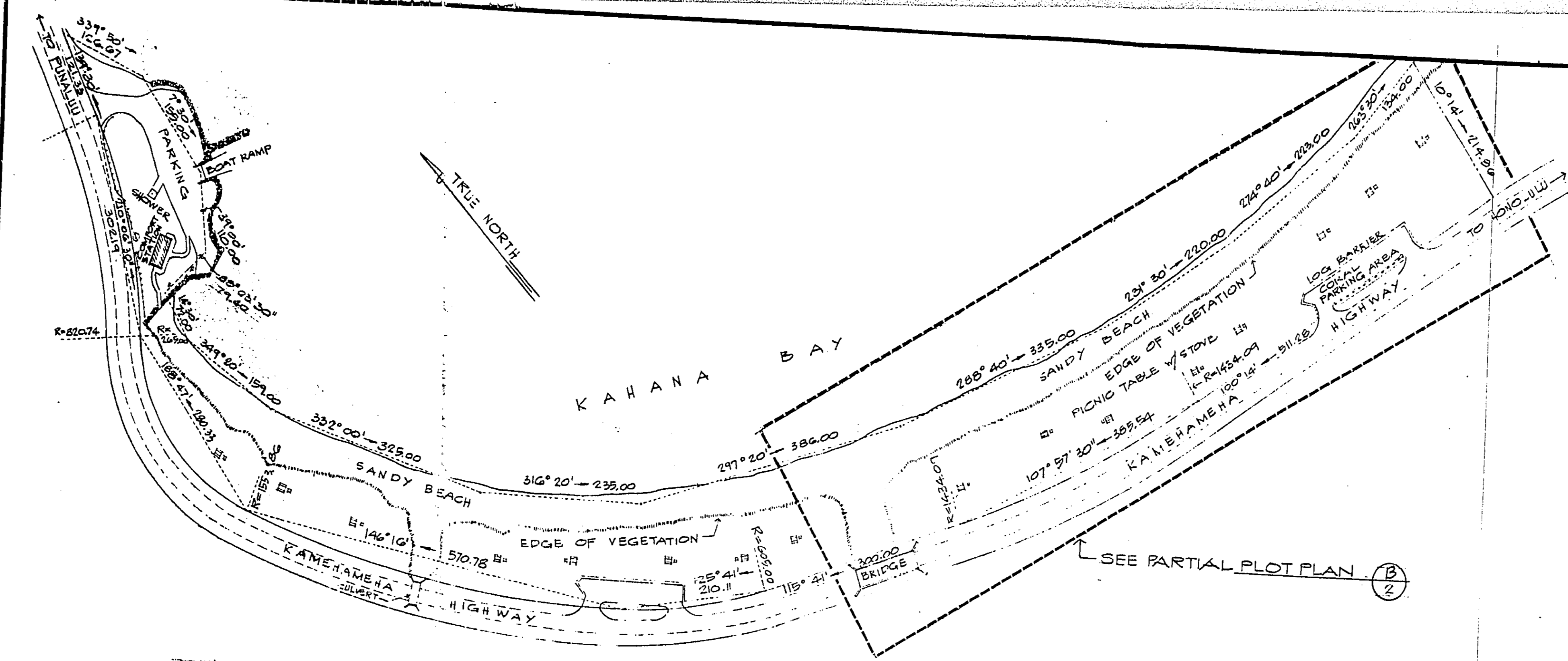


AREA: 8,154 Acres
SCALE IN FEET
0 40 80

DEPARTMENT OF PARKS & RECREATION CITY & COUNTY OF HONOLULU	
KAHANA BAY BEACH PARK SITE IMPROVEMENT	
DATE: 5/2/05	SCALE: 1" = 40'
DESIGNED BY: []	CHECKED BY: []
DRAWN BY: []	DATE: 5/2/05
PROJECT NO: []	SHEET NO: []

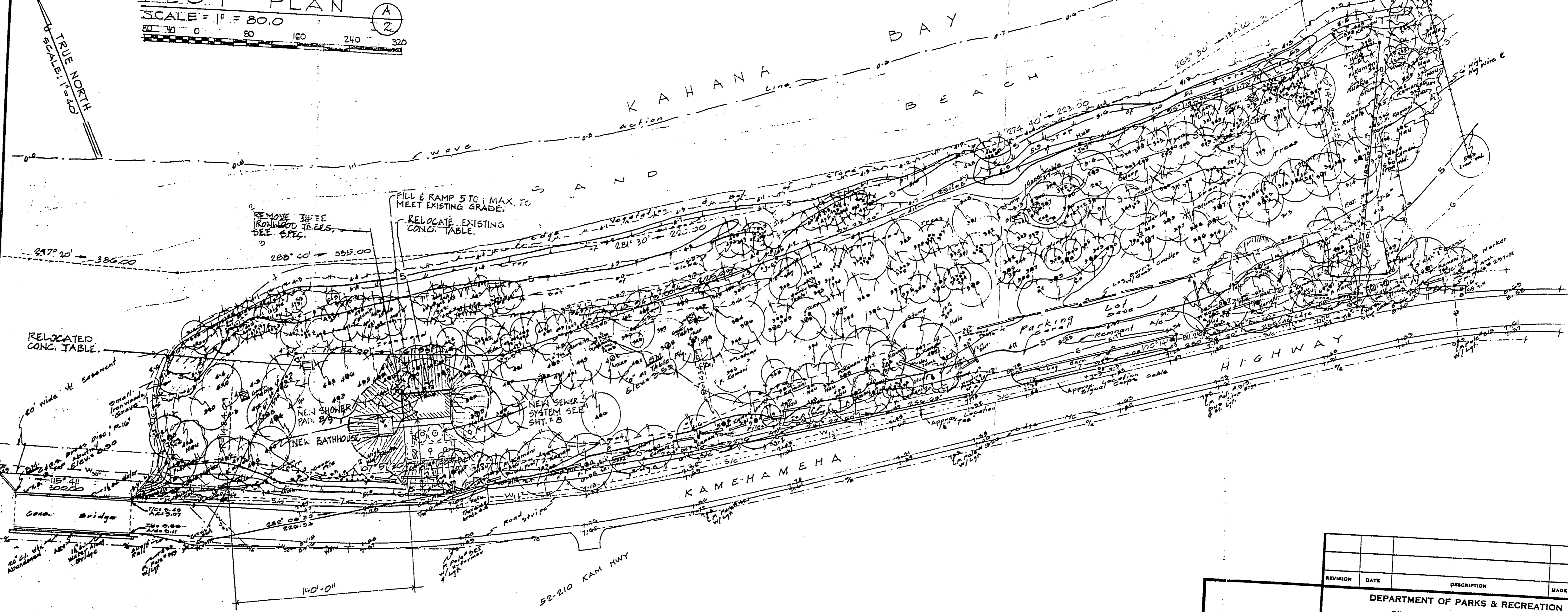


0091F



PLOT PLAN (A)
 SCALE: 1" = 80.0'
 0 80 160 240 320

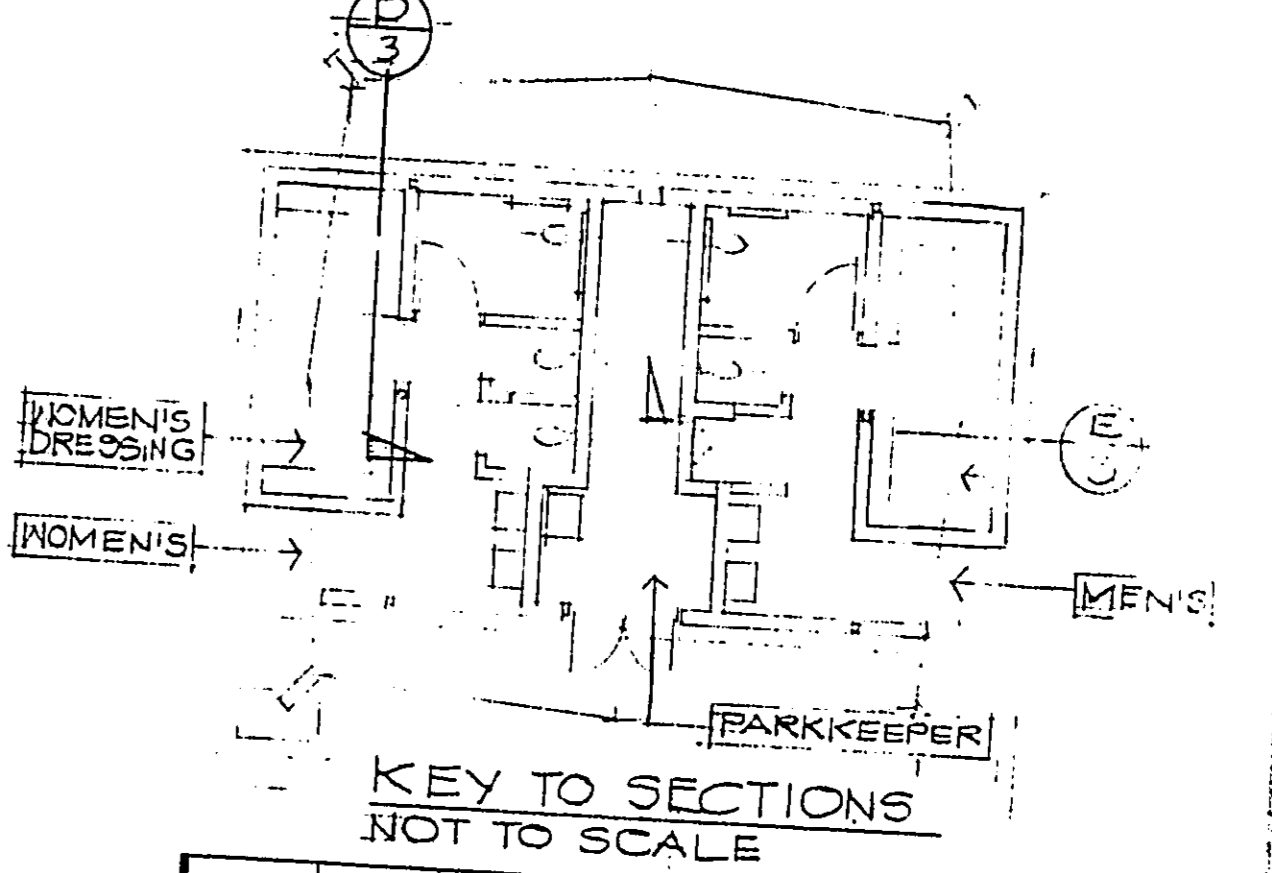
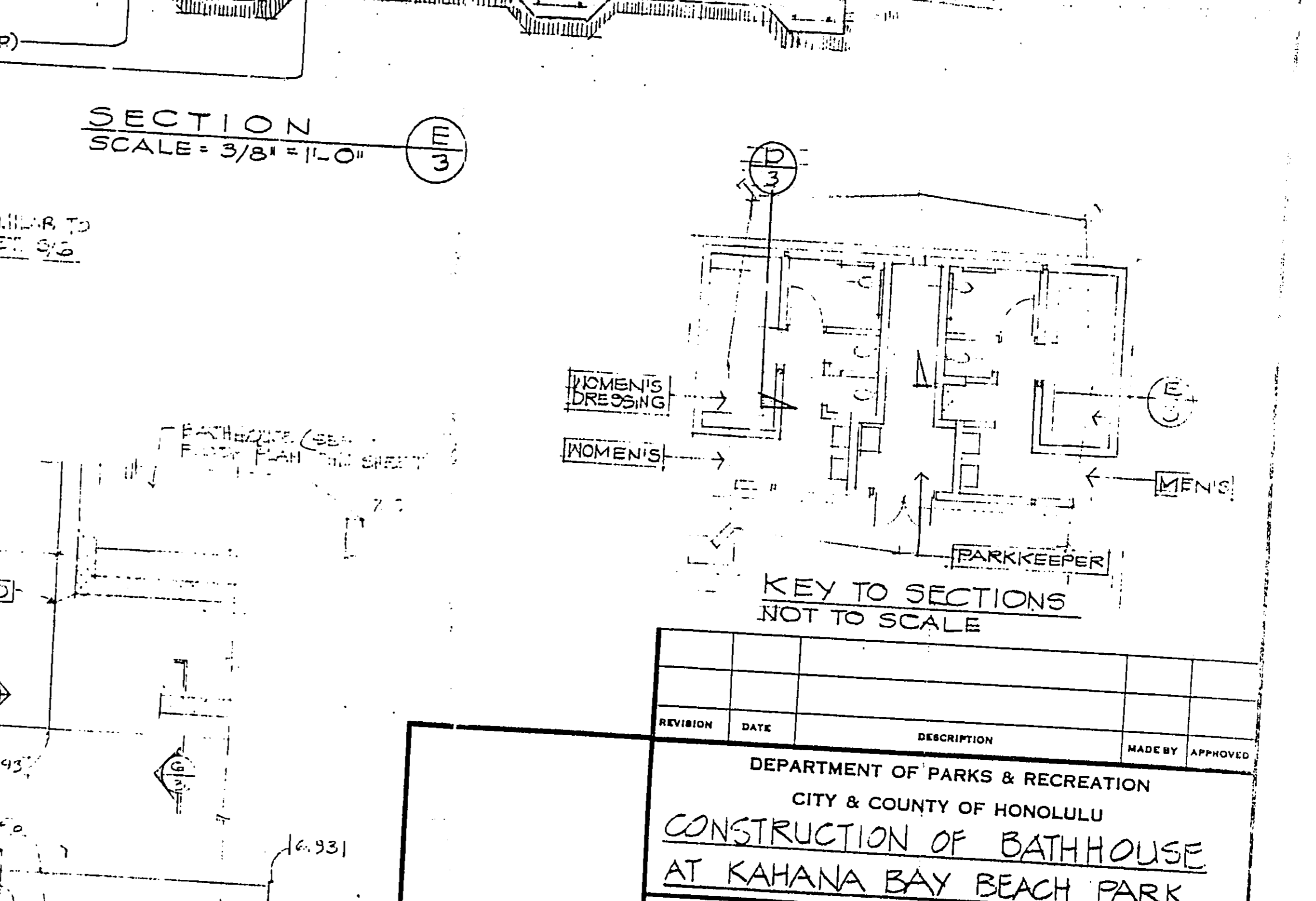
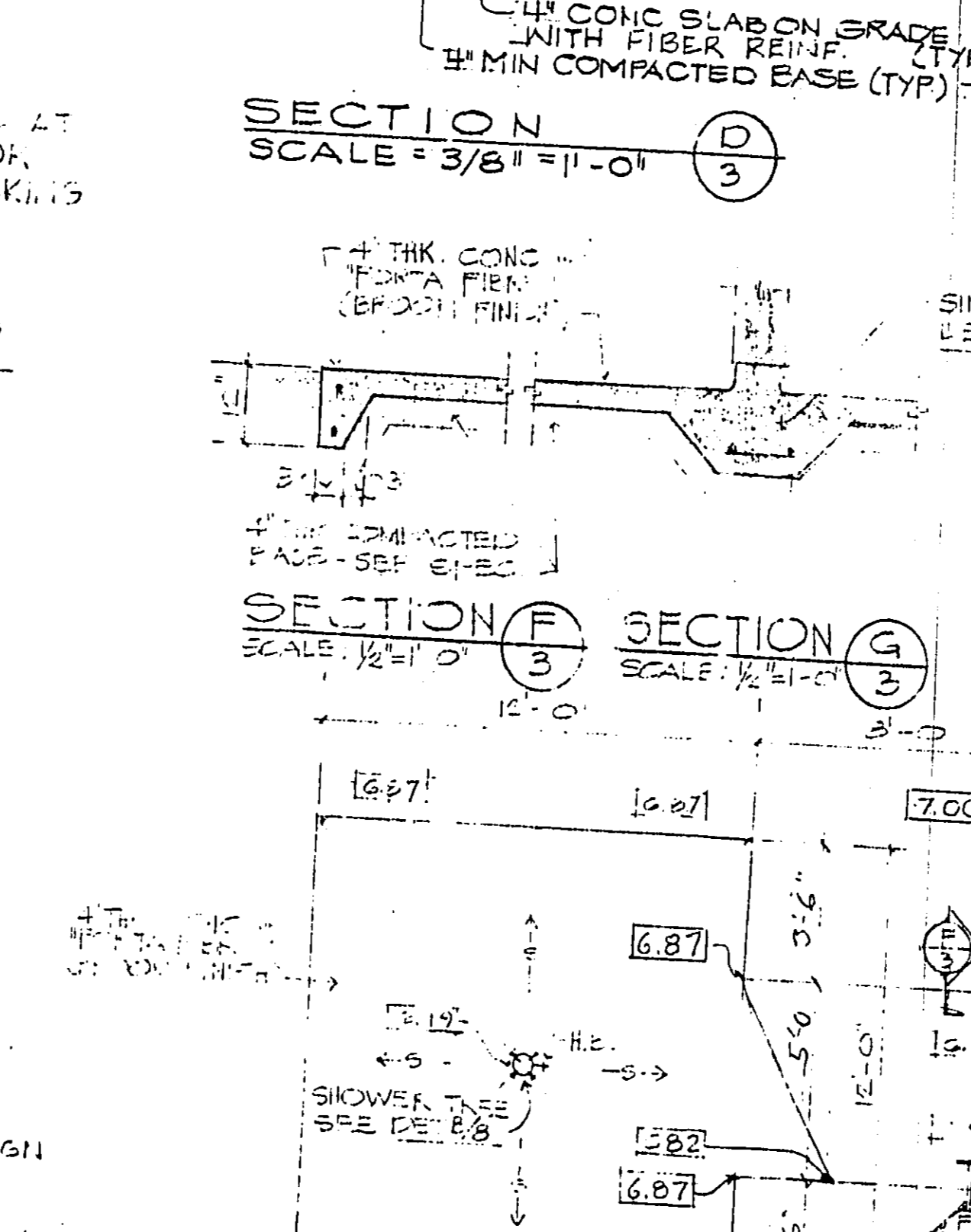
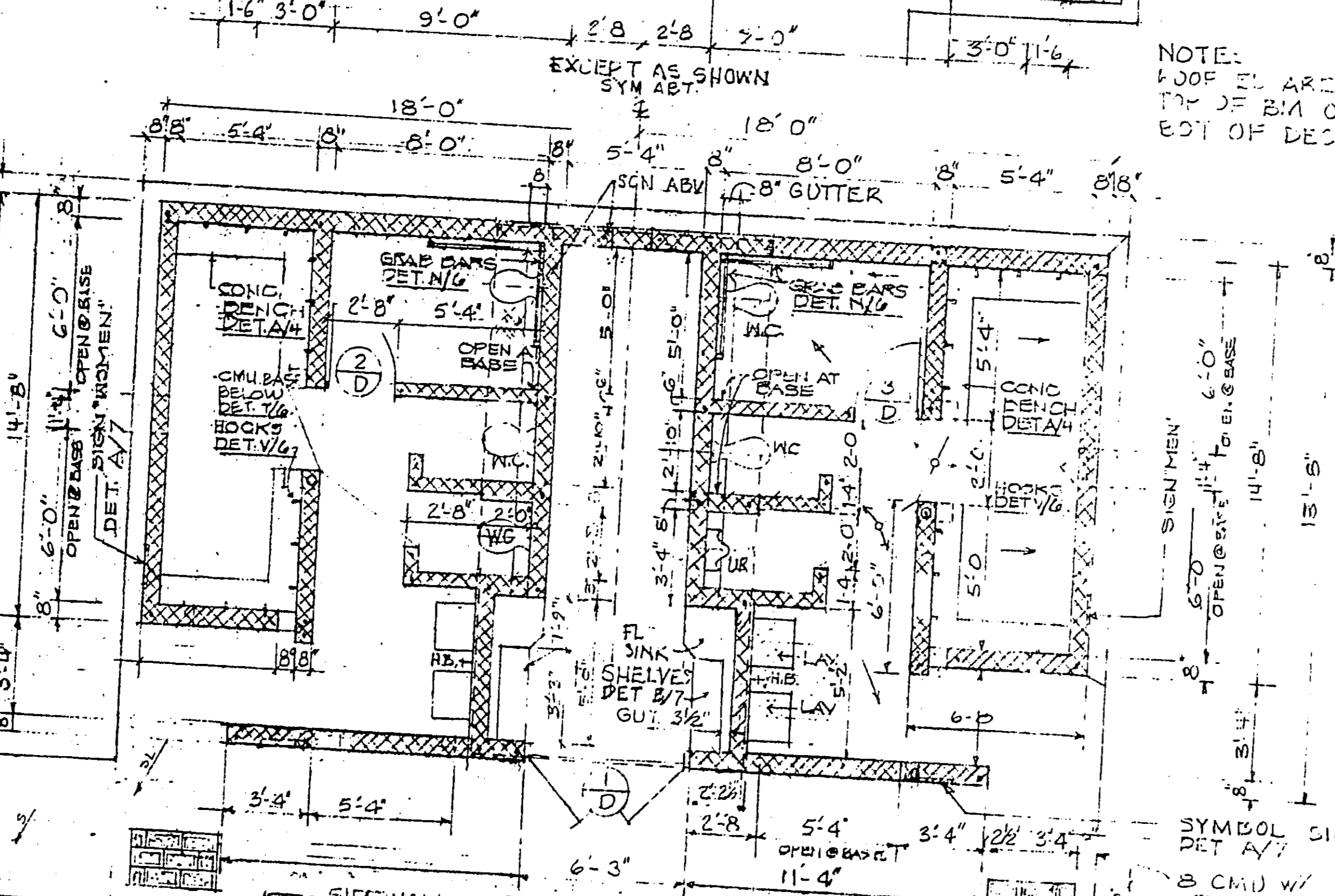
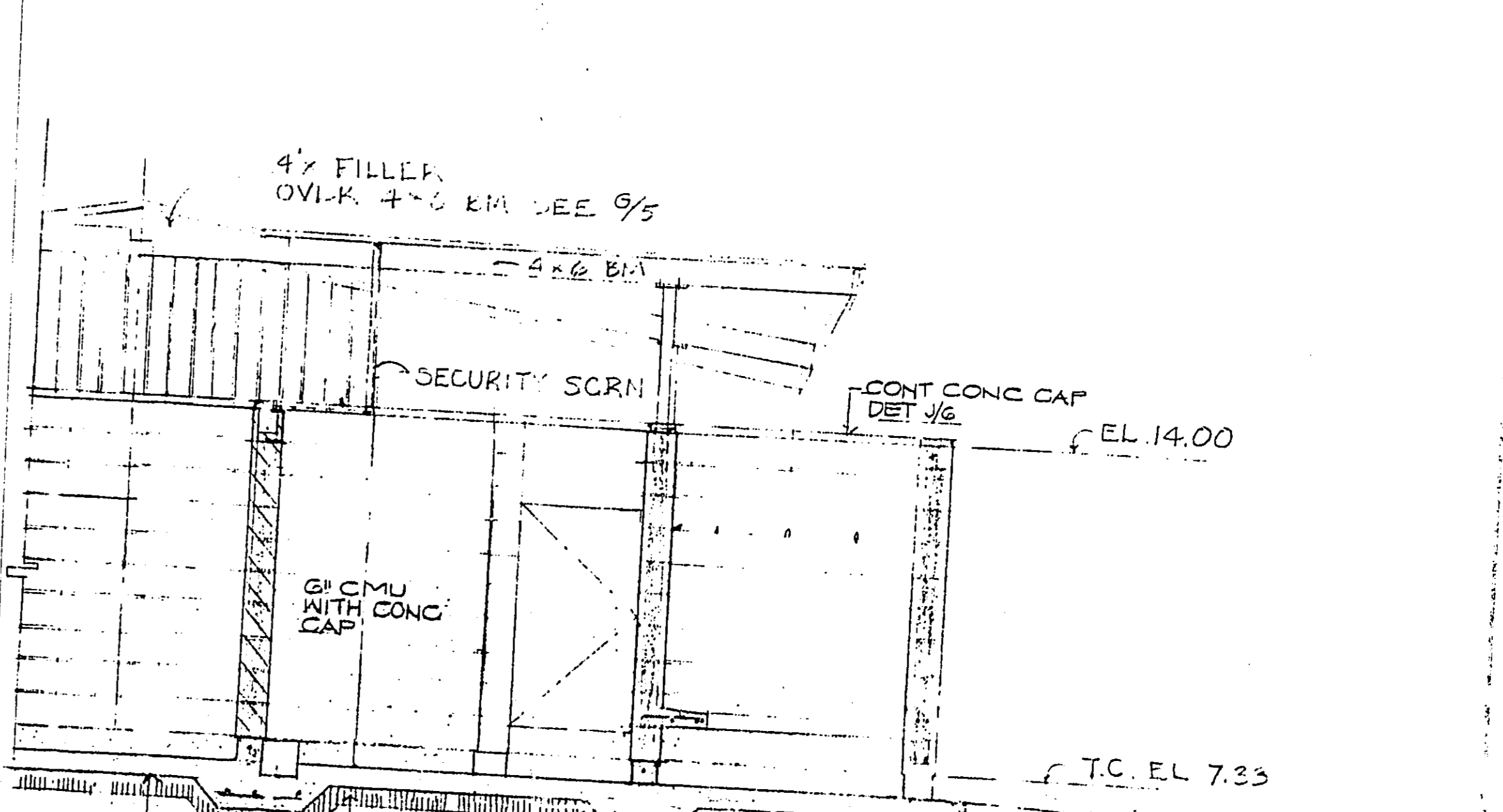
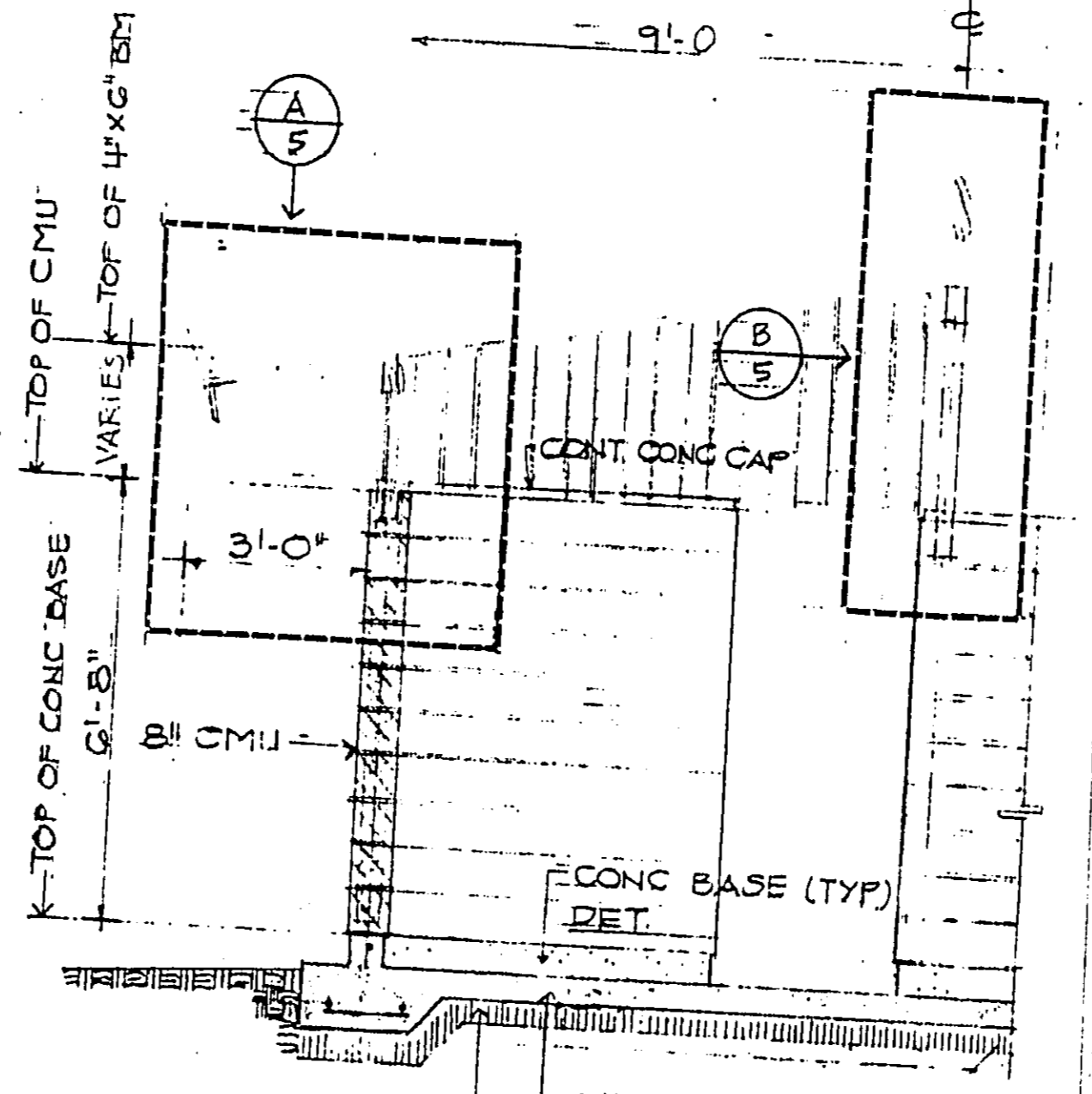
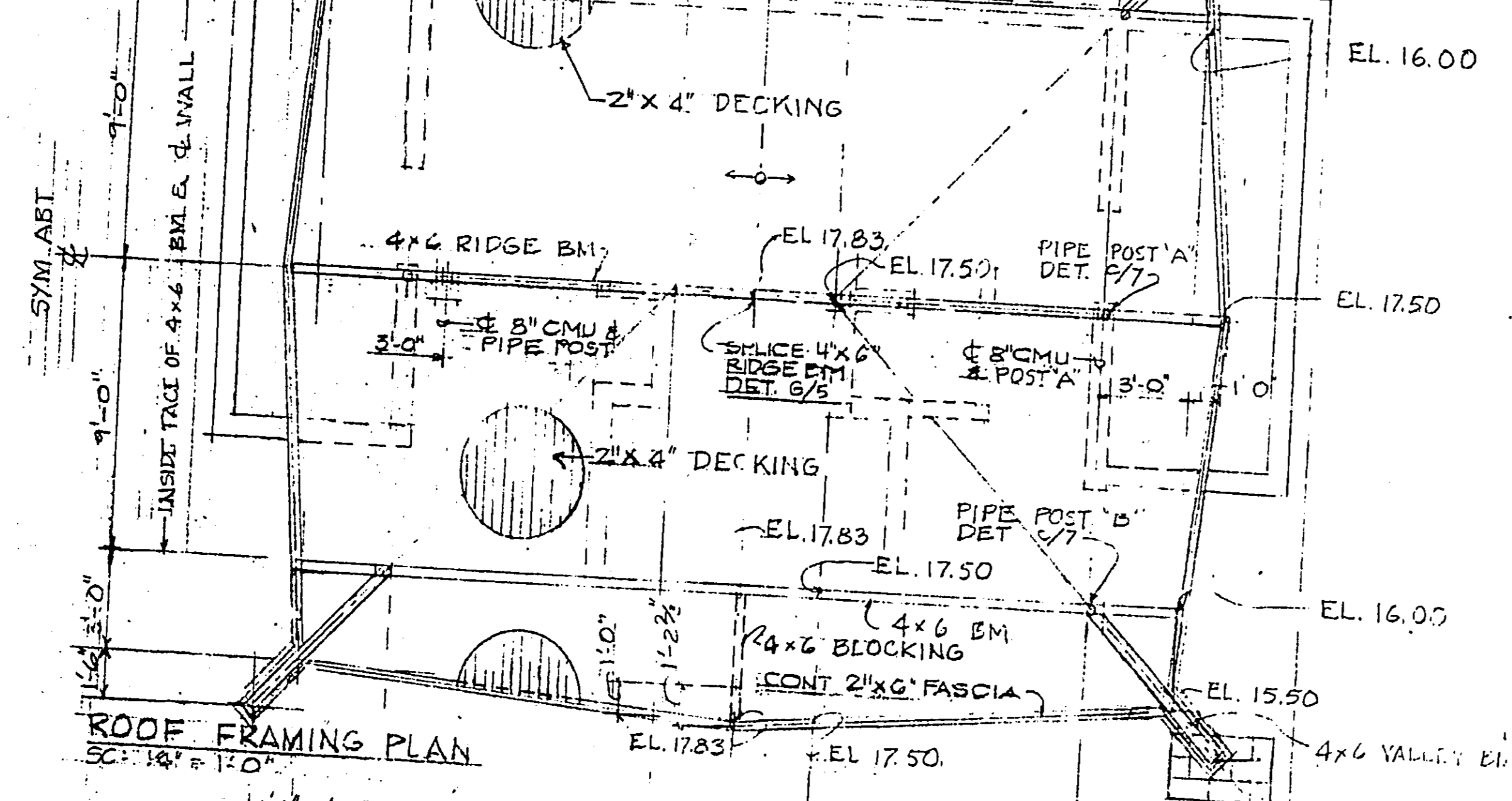
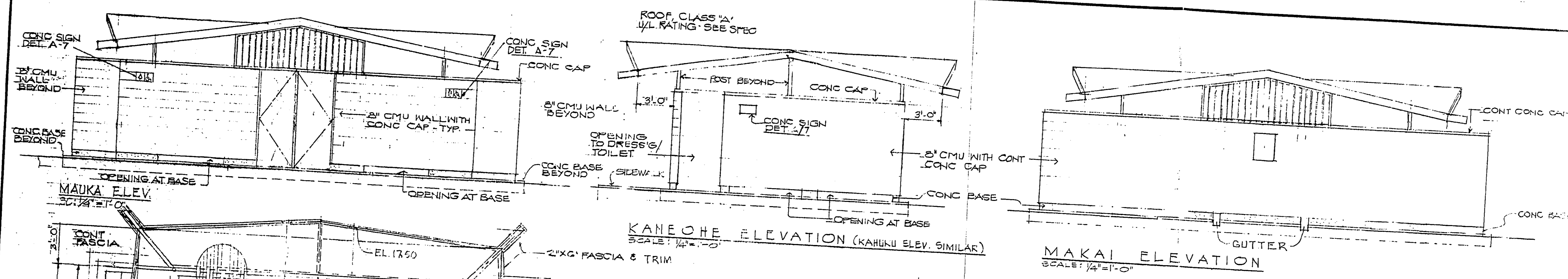
- GENERAL NOTES:**
1. CONTRACTOR TO VISIT SITE, VERIFY ALL EXISTING DIMENSIONS, CONDITIONS, STRUCTURES, SITE IMPROVEMENTS, ETC., BEFORE SUBMITTING BID.
 2. CONTRACTOR TO VERIFY ALL NEW DIMENSIONS AT PROJECT SITE.
 3. CONTRACTOR TO COORDINATE HIS OPERATIONS WITH THOSE OF OTHER CONTRACTORS WHO MAY BE EMPLOYED ON ADJACENT OR RELATED PROJECTS OF THE CITY AND AVOID UNNECESSARY DELAY OR HINDERANCE IN THE PERFORMANCE OF THEIR RESPECTIVE CONTRACTS.
 4. EXCEPT FOR THE PORTION OF THE BEACH PARK AND FACILITIES AFFECTED BY THIS CONTRACT, THE BEACH PARK SHALL BE IN USE BY THE PUBLIC. THE CONTRACTOR SHALL PROVIDE FULL COOPERATION WITH THE DEPT. OF PARKS & RECREATION TO MAINTAIN SUCH USE OF THE BEACH PARK FACILITIES.
 5. CONTRACTOR TO PROTECT ALL EXISTING TREES & VEGETATION WITHIN & SURROUNDING THE LIMITS OF CONTRACT. ANY UNAUTHORIZED REMOVAL OF TREES, SHALL BE REPLACED WITH NEW (SAME TRUNK & HEIGHT SIZE) TO THE SATISFACTION OF THE OFFICER-IN-CHARGE AT NO COST TO THE CITY.
 6. THE CONTRACTOR AT HIS OWN EXPENSE, SHALL KEEP THE PROJECT AREA & SURROUNDING AREA FREE FROM DUST NUISANCE. THE WORK SHALL BE IN CONFORMANCE WITH THE AIR POLLUTION CONTROL STANDARDS & REGULATIONS OF THE STATE DEPT. OF HEALTH.
 7. THE CONTRACTOR SHALL REMOVE ALL SILT & DEBRIS RESULTING FROM HIS WORK & DEPOSITED IN DRAINAGE FACILITIES, ROADWAYS & OTHER AREAS. THE COSTS INCURRED FOR ANY NECESSARY REMEDIAL ACTION BY THE CHIEF ENGINEER, DPW, SHALL BE PAYABLE BY THE CONTRACTOR.



PARTIAL PLOT PLAN (B)
 SCALE: 1" = 40.0'
 0 40 80 120 160

REVISION	DATE	DESCRIPTION	MADE BY	APPROVED BY
DEPARTMENT OF PARKS & RECREATION CITY & COUNTY OF HONOLULU CONSTRUCTION OF BATHHOUSE AT KAHANA BAY BEACH PARK				
PLOT PLAN, PARTIAL PLOT PLAN				
DRAWN BY: <i>MR/EM</i>		DESIGNED BY: <i>1</i>	DATE: <i>Mar 87</i>	
RECOMMENDED BY: <i>1</i>		DIST.:		
DESIGN	FACILITIES DEVELOPMENT		SHT. <i>2</i>	
MAINTENANCE		PARKS ADMINISTRATOR		OF <i>12</i>
DISTRICT SUPERVISOR		DEPUTY DIRECTOR		FILE NO. <i>35-C/13</i>

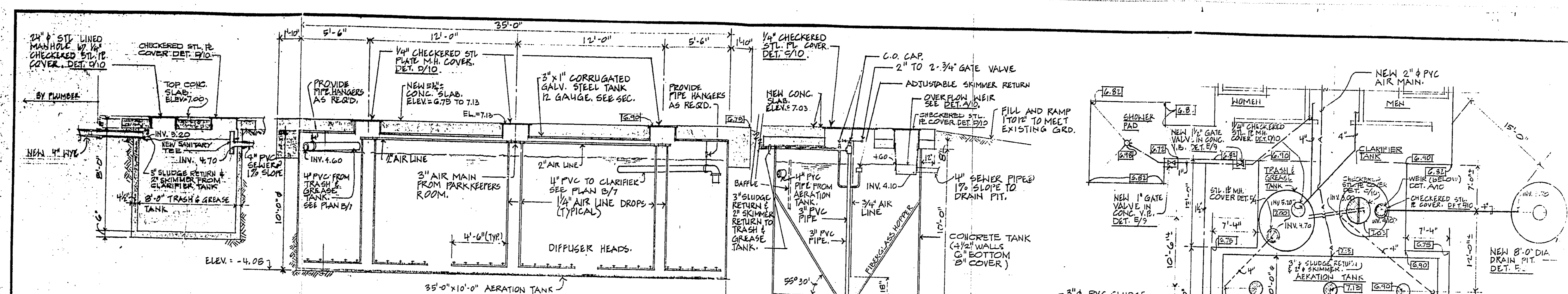
00916



REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
DEPARTMENT OF PARKS & RECREATION CITY & COUNTY OF HONOLULU CONSTRUCTION OF BATHHOUSE AT KAHANA BAY BEACH PARK				
FLOOR PLAN, ROOF FRAMING PLAN, EXTERIOR ELEV., SECTION				
DRAWN BY: EM /		DESIGNED BY: /		DATE: OCT. 67
RECOMMENDED BY:			DIST.	
/			SHT. 3	
FACILITIES DEVELOPMENT			OF 12	
PARKS ADMINISTRATOR			FILE NO.	
DEPUTY DIRECTOR			35-0/12	

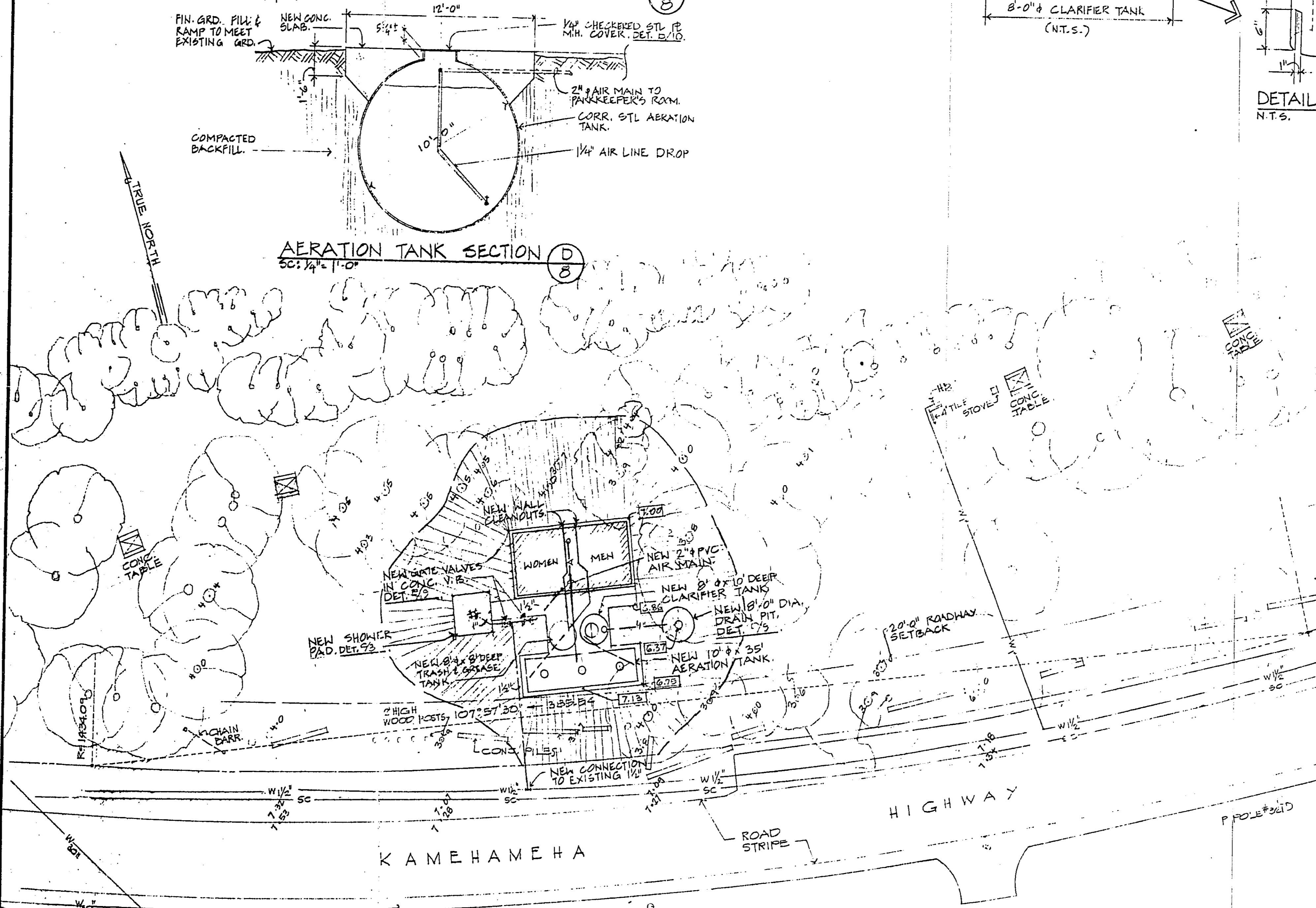
0091 G

0091 H



SEWER TREATMENT SYSTEM PROFILE
SC: 1/4" = 1'-0"

SEWER TREATMENT SYSTEM PLAN
SC: 1/8" = 1'-0"



AERATION TANK SECTION
SC: 1/4" = 1'-0"

PARTIAL PLOT PLAN
SCALE: 1" = 20'

DESIGN DATA

DESIGN LOADING
 MAX WEEK END CAMPERS 150 PERSONS
 ESTIMATED OTHER USERS 150 PERSONS
 3000
 EST. MAX USER FOR SAT & SUN 300 x 2 = 600
 EST. MAX USER FOR FRIDAY = 150
 EST. MAX USER FOR MON & THUR 75 x 2 = 150
 900
 MAX. AVE FOR 5 DAYS = 300 = 150 PERSONS x 200 GPD = 9,000 GALS HYDRAULIC FLOW
 150 x 0.17 LB. BOD = 25.5 LB. BOD
 SEWAGE TREATMENT PLANT SHALL BE MODEL HE 18676 AS MANUFACTURED BY BILL'S CHANE SERVICE INC. OR EQUAL.

VOLUMETRIC LOADING
 AT 12.5 LB. BOD/1000 CU. FT. OF AERATION TANK/DAY MAX
 REQUIRED VOLUME = 322.5 FEET/DAY
 12.5 LB. BOD/DAY x 1000 FT³
 = 242.5 CU. FT. x 1.33 = 322.5 FT

THE AERATION CAPACITY WILL BE SUPPLIED BY ONE 30 FT. SECTION OF 10 FT. TANK, LESS 17" OF AIR SPACE WHICH WILL PROVIDE A TOTAL OF 18,390 GALLONS.

MINIMUM AIR REQUIREMENTS
 AT 8 CFM/1000 GALLONS AERATION CAPACITY 18,390 = 18.7 x 5 = 94 CFM REQUIRED.

PRELIMINARY TREATMENT
 PROVIDE A 8' x 4' CONG. TANK LETS 12' AIR SPACE PROVIDES 1132 GAL.

CLARIFIER
 A MAX. OF 400 GALLONS PER SQ. FT. PER DAY SURFACE LOADING. A MINIMUM DETENT. TIME OF 4 HOURS (1/6 OF THE DAILY AVERAGE FLOW) IF THE RUN OFF PERIOD IS 24 HRS. IF THE RUN OFF PERIOD IS LESS THAN 24 HOURS, A MINIMUM OF 0 1/2 HOURS OF DETENT. IS REQUIRED DURING THE RUN OFF PERIOD.
 REQUIRED VOLUME = 9,000 GALLONS x 24 HRS/DAY
 = 1,800 GALLONS x 24 HRS/DAY
 ONE 8' x 10' DEEP CLARIFIER HOLD 2,088 GALS. AND HAS A SURFACE OVERFLOW RATE OF 179 GALLONS/FT²/DAY. 4 FEET OF WIER IS PROVIDED HAVING AN OVERFLOW RATE OF 2.250 GALLONS PER LINEAR FOOT PER DAY.

REVISION	DATE	DESCRIPTION	MADE BY	APPROVED
DEPARTMENT OF PARKS & RECREATION CITY & COUNTY OF HONOLULU CONSTRUCTION OF BATHHOUSE AT KAHANA BAY BEACH PARK				
PARTIAL PLOT PLAN, SEWER TREATMENT SYSTEM				
DRAWN BY: MHI		DESIGNED BY: /SK	DATE: OCT. 57	
RECOMMENDED BY:		DIST.		
DESIGN		SHT. 8		
MAINTENANCE		OF 12		
SUPERVISOR		FILE NO.		
DEPUTY DIRECTOR		35-C-12		