



STATE OF HAWAII
SURVEY DIVISION
DEPT. OF ACCOUNTING AND GENERAL SERVICES
HONOLULU

C.S.F. No. 21,692

April 7, 1992

KEALAKEKUA BAY STATE PARK

Land adjacent to Hikiau Heiau

Kealakekua, South Kona, Island of Hawaii, Hawaii

Being portion of Royal Patent 7533 and 3607, Land Commission Award 8452, Apana 9 to A. Keohokalole, conveyed to the Territory of Hawaii by Victor B. Harrel by Exchange Deed dated September 18, 1939 and recorded in Liber 1525, Pages 230-237 (Land Office Deed 6349).

Beginning at the southwest corner of this parcel of land, on the boundary between the lands of Kealakekua and Kiloa and on the east side of Government Road, the coordinates of said point of beginning referred to Government Survey Triangulation Station "HAKI" being 1112.50 feet North and 1062.50 feet West, thence running by azimuths measured clockwise from True South:-

1. 156° 10' 214.50 feet along the east side of Government Road;
2. 161° 02' 105.10 feet along the east side of Government Road;
3. 260° 54' 169.90 feet along the south side of Hikiau Heiau;
4. 170° 53' 95.70 feet along the east side of Hikiau Heiau;
5. 270° 38' 320.10 feet along Parcel 3 of Kealakekua Bay State Park;
6. 359° 29' 290.70 feet along Parcel 3 of Kealakekua Bay State Park;

April 7, 1992

7. 70° 54'

375.10 feet along Grant 867 to Preston Cummings to the point of beginning and containing an AREA OF 3.24 ACRES.

SURVEY DIVISION
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
STATE OF HAWAII

By: Glenn J. Kodani
Glenn J. Kodani
Land Surveyor gm

Compiled from CSF 9069 and
Govt. Survey Records.
TMK: 8-2-04:9

1034

JOHN WAIMEE
GOVERNOR

- BR
- PLAN BR
- RES. MGT BR.
- PROJ CONTROL
- SW REC PLAN
- CLERICAL STAFF
- ADMIN. ASS'T.
- ARCHAEOLOGISTS
- FOR:
- CIRCULATE/POST
- COMMENTS & REC.
- DRAFT REPLY
- FILE
- FOLLOW UP
- INFO
- RUSH (DUE _____)
- SEE ME
- SEND COPY TO: _____



DIVISION OF
STATE PARKS

JUL 2 1 35 PM '92

LEONARD K. P. LEONG
Chairperson

STATE OF HAWAII
ENVIRONMENTAL COUNCIL

220 SOUTH KING STREET
FOURTH FLOOR
HONOLULU, HAWAII 96813

TELEPHONE (808) 586-4185

December 23, 1991

In reply, please refer to:

DOCKET 91-EX-1

The Honorable William Paty, Chairperson
Board of Land and Natural Resources
State of Hawaii
Department of Land and Natural Resources
1151 Punchbowl Street
Honolulu, Hawaii 96813

Dear Mr. Paty:

Pursuant to Section 11-200-8 of the Hawaii Administrative Rules (Environmental Impact Statement Rules, Department of Health), and Chapter 201, Title 11, Hawaii Administrative Rules (Environmental Council Rules of Practice and Procedure, Department of Health), the Environmental Council met on December 4, 1991, to deliberate on your request for concurrence on the inclusion of two actions on an amended exemption list for the Division of State Parks. The Environmental Council approved a motion to concur with the inclusion, under exemption class 1 of the Division of State Parks exemption list, of the two actions identified in your October 1, 1991, letter (Ref. No. 91SW-148). The Environmental Council also approved a motion to update the list to reflect current statutory provisions and administrative rules. The Environmental Council has also received your December 10, 1991, letter (Ref. No. 91SW-177). The letter will be placed in our docket file (91-EX-1) for this proceeding.

SUMMARY OF ADMINISTRATIVE ACTIONS

In response to motion 1, Environmental Council Docket 91-EX-1, the May 25, 1978, exemption list of the Division of State Parks, Department of Land and Natural Resources, State of Hawaii, was amended to include the following actions as items 9 and 10 under exemption class 1:

9. Acquisition, but not improvement, of property for park use, and minor subdivision and consolidation of parcels necessary for acquisition of property for park use; and,
10. Subdivision/consolidation of public park lands and their transfer between the State and other public agencies for continuing park use.

In response to motion 2, Environmental Council Docket 91-EX-1, the following amendments were made to the May 25, 1978, exemption list of the Division of State Parks, Department of Land and Natural Resources, State of Hawaii.

EXHIBIT
B

#8273

The Honorable William Paty, Chairperson
Board of Land and Natural Resources
December 23, 1991
Page 2 of 2

1. All references to the "Environmental Quality Commission" were deleted and replaced by "Environmental Council."
2. Obsolete administrative citations were deleted and replaced with current statutory or administrative citations.
3. One action (consolidation of parcels for State Parks use) under exemption Class 6 on the May 25, 1978, list, was deemed by the Council to be inclusive under the new actions receiving Council concurrence. The action was therefore deleted on the concurred list.
4. Exemption class 6 found on the May 25, 1978 list no longer exists under Chapter 200, Title 11, Hawaii Administrative Rules; such class was deleted on the concurred list.
5. Because exemption class 6 found on the May 25, 1978, list no longer exists, the remaining exempt classes of action (7, 8, 9 and 10, respectively) were renumbered to conform with Chapter 200, Title 11, Hawaii Administrative Rules.
6. To conform with Chapter 200, Title 11, Hawaii Administrative Rules, existing actions under the remaining exempt classes of action (7, 8, 9 and 10, respectively) were transferred to the renumbered classes of action.
7. Dates of Environmental Quality Commission and Environmental Council review/concurrence, amendment, revisions, etc., were added after each action.
8. Headers identifying the agency, division, Environmental Council docket number, and date of Environmental Council concurrence and page number were provided for each page (following the first page) of the exemption list.
9. Historical and clarifying notes were added to the text of the list.

A copy of the concurred list is enclosed. If you have any questions or concerns regarding this matter, please call Mr. Leslie Segundo, Environmental Health Specialist, at 586-4185.

Very truly yours,



LEONARD K. P. LEONG, Chairperson
Environmental Council

Enclosure

c: Brian J. J. Choy, Director, OEQC

EXEMPTION LIST FOR THE
STATE OF HAWAII, DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF STATE PARKS
AS REVIEWED AND CONCURRED UPON BY THE ENVIRONMENTAL COUNCIL
(DOCKET 91-EX-1)
DECEMBER 4, 1991

HISTORICAL NOTE

As a result of a review and concurrence proceeding (Docket 91-EX-1) conducted by the Environmental Council on December 4, 1991, this amended exemption list by the Department of Land and Natural Resources, Division of State Parks, supersedes the Division of State Parks exemption list reviewed and concurred upon by the now defunct Environmental Quality Commission on May 25, 1978. Prior to May 25, 1978, the Environmental Quality Commission reviewed and concurred on a Division of State Parks exemption list on February 5, 1976.

Prior to 1984, the Environmental Quality Commission was vested with the responsibility for exemption list review and concurrence. However, Act 140, Session Laws of Hawaii, Regular Session of 1983, abolished the Environmental Quality Commission and created a new Environmental Council. The new Environmental Council was vested with responsibility for exemption list review and concurrence activities of the former Environmental Quality Commission.

DIVISION EXEMPTION LIST

Section 343-6(7) of the Hawaii Revised Statutes authorizes the Environmental Council to establish procedures whereby specific types of actions, because they will probably have minimal or no significant effects on the environment, are declared exempt from the preparation of an environmental assessment. Pursuant to the administrative rules promulgated under authority of section 343-6(7) of the Hawaii Revised Statutes by the Environmental Council, specifically section 11-200-8(d) of the Hawaii Administrative Rules, Department of Health (HAR); the Department of Land and Natural Resources, Division of State Parks, State of Hawaii, has determined that the following types of actions, where they fall within the given classes of action, shall generally be exempt from the preparation of an environmental assessment. The Environmental Council, after reviewing the Department's request to amend the May 25, 1978, Division of State Parks exemption list, has concurred on this amended Division exemption list containing actions under exemption classes 1, 2, 3, 4, 5, and 6.

EXEMPTION CLASS 1

Operations, repairs or maintenance of existing structures, facilities, equipment, or topographical features, involving negligible or no expansion or change of use beyond that previously existing [HAR §11-200-8(a)(1)].

1. Irrigation structure, facilities and waterways -- within developed, maintained portions of State Parks [February 5, 1976].

2. Roads, road structures, roadways and trails -- within developed, maintained portions of State Parks [February 5, 1976].
3. Cabins, pavilions, picnic and trail shelters, utility buildings and shed -- within developed, maintained portions of State Parks [February 5, 1976].
4. Pumps and controls, pipes and channels, dikes, water storage tanks and water sources -- within developed, maintained portions of State Parks [February 5, 1976].
5. Camp and picnic grounds and facilities, scenic viewpoints -- within developed, maintained portions of State Parks [February 5, 1976].
6. Offices, baseyards, and ground -- within developed, maintained portions of State Parks [February 5, 1976].
7. Fences and gates -- within developed, maintained portions of State Parks [February 5, 1976].
8. Revegetation of burned or eroded areas -- within developed, maintained portions of State Parks [February 5, 1976].

NOTE: At the December 4, 1991 review and concurrence proceeding (Environmental Council Docket 91-EX-1), the Environmental Council concurred on the addition of the actions 9 and 10 to exemption class 1 with concurrent deletion of exemption class 6 found in the May 25, 1978 list. Refer to the note at exemption class 6 [December 4, 1991].

9. Acquisition, but not improvement, of property for park use, and minor subdivision and consolidation of parcels necessary for acquisition of property for park use [December 4, 1991; also replaces the action "consolidation of parcels for State Parks use" found under exemption class 6 in the May 25, 1978 division exemption list].
10. Subdivision/consolidation of public park lands and their transfer between the State and other public agencies for continuing park use [December 4, 1991].

EXEMPTION CLASS 2

Replacement or reconstruction of existing structure and facilities where the new structure will be located generally on the same site and will have substantially the same purpose, capacity, density, height and dimensions as the structure replaced [HAR §11-200-8(a)(2)].

1. Cabin, pavilion, picnic or trail shelter, utility building or shed -- within developed, maintained portions of State Parks [February 5, 1976].
2. Pump and controls, pipe, channel or dike -- within developed, maintained portions of State Parks [February 5, 1976].
3. Roads, road structures or trails -- within developed, maintained portions of State Parks [February 5, 1976].

EXEMPTION CLASS 3

Construction and location of single, new, small facilities or structures and the alteration and modification of same and installation of new, small, equipment and facilities and the alteration and modification of same including but not limited to: (A) Single family residences not in conjunction with the building of two or more such units; (B) Multi-unit structures designed for not more than four dwelling units if not in conjunction with the building of two or more such structures; (C) Stores, offices and restaurants, designed for total occupant load of twenty persons or less, if not in conjunction with the building of two or more such structures; and (D) Water, sewage, electrical, gas, telephone, and other essential public utility services extensions to serve such structure or facilities; and accessory or appurtenant structures including garages, carports, patios, swimming pools, and fences [HAR §11-200-8(a)(3)].

1. Construction of enclosures for park trash containers; addition of trash containers [February 5, 1976].
2. Construction of park comfort stations with accommodations of 10 or less toilets and urinals [February 5, 1976].
3. Construction of park pavilion and picnic shelters containing areas of less than 2,000 square feet [February 5, 1976].
4. Construction of park picnic tables [February 5, 1976].
5. Construction of off-street parking facilities having capacities of less than 50 stalls per park [February 5, 1976].
6. Construction of park irrigation ditches, flumes and structures having less than 200 gpm [February 5, 1976].
7. Construction of park water and underground utility systems (waterlines limited to 2-1/2" I.D.) [February 5, 1976].

Exemption List for the State of Hawaii
Department of Land and Natural Resources
Division of State Parks
Environmental Council Docket 91-EX-1
December 4, 1991
Page 4 of 6

8. Overhead utility systems that use existing utility poles within parks [February 5, 1976].
9. Construction of park picnic stoves, cooking grills and BBQ's [February 5, 1976].
10. Construction of park directional, identification, safety and interpretive signs [February 5, 1976].
11. Construction of park caretaker's residence (limited to one residence per park) [February 5, 1976].
12. Construction of attached and detached park caretaker's garage and carport accommodating up to 3 cars [February 5, 1976].
13. Construction of park storage and utility building containing areas of less than 2,000 square feet [February 5, 1976].
14. Construction of park fencing [February 5, 1976].
15. Construction of park drainage swales and structures (where Q less than 500 cfs) [February 5, 1976].
16. Construction of park safety railings and retaining walls of less than 10' height (excluding sea walls) [February 5, 1976].
17. Construction of park roadways with distances of less than 1,000 yards (excluding access roads) [February 5, 1976].
18. Construction of park walkways [February 5, 1976].
19. Construction of park walkways and parking area lights [February 5, 1976].
20. Construction of park outdoor showers [February 5, 1976].
21. Construction of park cabins that contain area of less than 1,000 square feet [February 5, 1976].

EXEMPTION CLASS 4

Minor alteration in the conditions of land, water, or vegetation [HAR §11-200-8(a)(4)].

1. Minor alteration of retaining walls within developed, maintained portion of State Parks [February 5, 1976].
2. Minor drainage ditch within developed, maintained portions of State Parks [February 5, 1976].
3. Cutting or filling that involves less than 1,500 cubic yards of rock and soil within parks [February 5, 1976].
4. New landscaping within existing developed, park where the area landscaped is less than 5 acres [February 5, 1976].

EXEMPTION CLASS 5

Basic data collection, research, experimental management, and resource evaluation activities which do not result in a serious or major disturbance to an environmental resource [HAR § 11-200-8(a)(5)].

1. Topographic and site instrument surveys within park boundaries [February 5, 1976].
2. Walk through archaeological surveys within park boundaries [February 5, 1976].

EXEMPTION CLASS 6

Construction or placement of minor structures accessory to existing facilities [HAR § 11-200-8(a)(6)].

NOTE: At the December 4, 1991 review and concurrence proceeding (Environmental Council Docket 91-EX-1), the Environmental Council concurred on the addition of actions 9, 10 under exemption class 1 with concurrent deletion of the May 25, 1978, exemption class 6 and the action found thereunder ("Consolidation of parcels for State Parks use"). The Council concurred with the deletions, since the class of action under the May 25, 1978 list is no longer existent, and since the action under the exemption class 6 found in the May 25, 1978 list is included as action 9 under exemption class 1 of this list. Actions under exemption class 7 of the May 25, 1978 list are being transferred to exemption class 6 under the current administrative rules [December 4, 1991].

1. Construction or placement within developed, maintained portions of State Parks [February 5, 1976; transferred from exemption class 7, December 4, 1991].

Exemption List for the State of Hawaii
Department of Land and Natural Resources
Division of State Parks
Environmental Council Docket 91-EX-1
December 4, 1991
Page 6 of 6

2. Driveways within developed, maintained portions of State Parks [February 5, 1976; transferred from exemption class 7, December 4, 1991].
3. Exterior lights within developed, maintained portions of State Parks [February 5, 1976; transferred from exemption class 7, December 4, 1991].
4. Water catchments, lines and faucets, within developed, maintained portions of State Parks [February 5, 1976; transferred from exemption class 7, December 4, 1991].
5. Placement or construction in established State parks of all water tanks and of all gas tanks for fueling cooking stoves installed in existing cabins [May 25, 1978; transferred from exemption class 7, December 4, 1991].

NOTE

Pursuant to HAR §11-200-8(b), all exemptions under the classes in this section are inapplicable when the cumulative impact of planned successive actions of the same type, in the same place, over time, is significant, or when an action that is normally insignificant in its impact on the environment may be significant in a particularly sensitive environment.

BENJAMIN J. CAYETANO
GOVERNOR OF HAWAII



5 12 35
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
DIVISION OF STATE PARKS
P.O. BOX 621
HONOLULU, HAWAII 96809
October 4, 2001

GILBERT S. COLOMA-AGARAN
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES


JANET T. KAWELO
DEPUTY DIRECTOR

LINNEL T. NISHIOKA
DEPUTY DIRECTOR FOR
THE COMMISSION ON WATER
RESOURCE MANAGEMENT

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
COMMISSION ON WATER RESOURCE
MANAGEMENT
CONSERVATION AND RESOURCES
ENFORCEMENT
CONVEYANCES
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE
COMMISSION
LAND
STATE PARKS

MEMORANDUM

TO: Ester Imamura
Planning Department
County of Hawaii

FROM: Jon Sasaki, Planner 
DLNR, State Parks Division

SUBJECT: Special Management Area Use Permit Application
(SMA 01-006) Kealakekua Bay State Historical Park,
Tax Map Key 8-2-04:09

This is in response to your letter of September 25, 2001, regarding the Septic Tank System designed for the restroom facility at Kealakekua Bay State Historical Park.

Enclosed is a set of drawings showing the plans of the Septic Tank System, designed by Alan T. Okamoto, licensed professional Engineer (Lic. No. 5483-C), of Hida, Okamoto & Associates, Inc., Civil Engineers licensed by the State of Hawaii, for your review and approval.

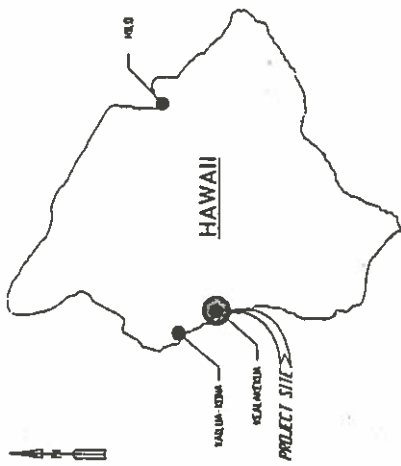
Enclosure

c: Aaron Ueno, Dept. of Health

EXHIBIT

C

[Handwritten signature]



ISLAND OF HAWAII
NOT TO SCALE

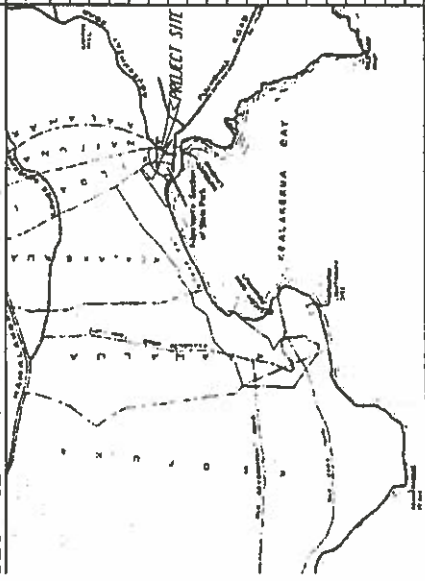
STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING BRANCH, LAND DIVISION

FOR
DIVISION OF STATE PARKS
JOB NO. 89-HP-F2

KEALAKEKUA BAY STATE HISTORICAL PARK
PHASE I DEVELOPMENT
KEALAKEKUA, HAWAII, HAWAII

T.M.K.: 3-8-2-04:09
ACT 328, SLH 1997

LOCATION MAP



INDEX TO DRAWINGS

SHEET NO.	DRAWING NO.	DESCRIPTION
1		TITLE SHEET
2	C-1	GRADING, SITE AND UTILITY PLAN
3	C-2	DETAILS
4	C-3	SEWER SYSTEM DETAILS & BORING LOG
5	A-1	FLOOR AND SLAB FINISH PLANS
6	A-2	CEILING AND ROOF PLANS
7	A-3	EXTERIOR ELEVATIONS
8	A-4	INTERIOR ELEVATIONS AND DETAILS
9	A-5	SCHEDULES AND DETAILS
10	A-6	DETAILS
11	A-7	BAR-B-O-STAND
12	A-8	SOFFIT
13	S-1	GENERAL ELEVATIONS, SECTION AND DETAILS
14	S-2	FLOOR AND TYPICAL DETAILS
15	S-3	ROOF AND TYPICAL DETAILS
16	S-4	FOUNDATION ELEVATIONS, SECTION AND DETAILS
17	P-1	PLAN, DETAILS, NOTES
18	P-2	SECTION, LEGEND
	A1	

APPROVALS

SHEET NO.	DRAWING NO.	DESCRIPTION
19	E-1	ELECTRICAL SYMBOLS, DEMOLITION NOTES, SINGLE LINE DIAGRAM, PANELBOARD SCHEDULE
20	E-2	ELECTRICAL SITE PLAN
21	E-3	ELECTRICAL PLAN, LUMINAIRE DETAILS, NIGHT LIGHT, LIGHT DIAGRAM, METER SOCKET, MAIN BREAKER, DETAIL

APPROVED: *[Signature]* DATE: 8/2/97
 ADMINISTRATOR
 DIVISION OF STATE PARKS
 DEPARTMENT OF LAND AND NATURAL RESOURCES

APPROVED: *[Signature]* DATE: 8/2/97
 ANDREW M. MOHLEN, P.E.
 CHIEF ENGINEER
 ENGINEERING BRANCH, LAND DIVISION
 DEPARTMENT OF LAND AND NATURAL RESOURCES

KEY	DESCRIPTION	KEY
---	CONTOUR	○
---	SPOT GRADE	○
---	WATER LINE	○
---	SEWER LINE	○
---	ELECTRICAL	○
---	BORING LOCATION	○

- UTILITY NOTES:**
1. CONTINUATION TO VERIFY LOCATION & SIZE IN THE FIELD
 2. FOR TYPICAL TRENCH SEE DETAIL (A)
 3. FOR REDUCED PRESSURE MEMPHIS BLOWLOW PREVENTER SEE DETAIL (B) FOR 6" DIA. PIPE AND 6" THICK 60' 17" SL. CONCRETE PAD FOR PIPE SUPPORT
 4. FOR GATE VALVE SEE DETAIL (C) TYPE-A CONCRETE BOX 60" DIA.

- EROSION CONTROL MEASUREMENT PRACTICES NOTES:**
1. EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO START OF DEMOLITION PHASE AND BE MAINTAINED UNTIL COMPLETION OF GRADING PHASE.
 2. TEMPORARY SILT FENCE IS TO BE INSTALLED AROUND LIMITS OF GRADING WORK PRIOR TO START OF DEMOLITION AND REMAIN UNTIL COMPLETION OF CONSTRUCTION ACTIVITIES SEE DETAIL (D)
 3. ALL EXPOSED AREAS TO BE GRASSED UPON COMPLETION OF GRADING WORK.

ARCHAEOLOGICAL NOTES:

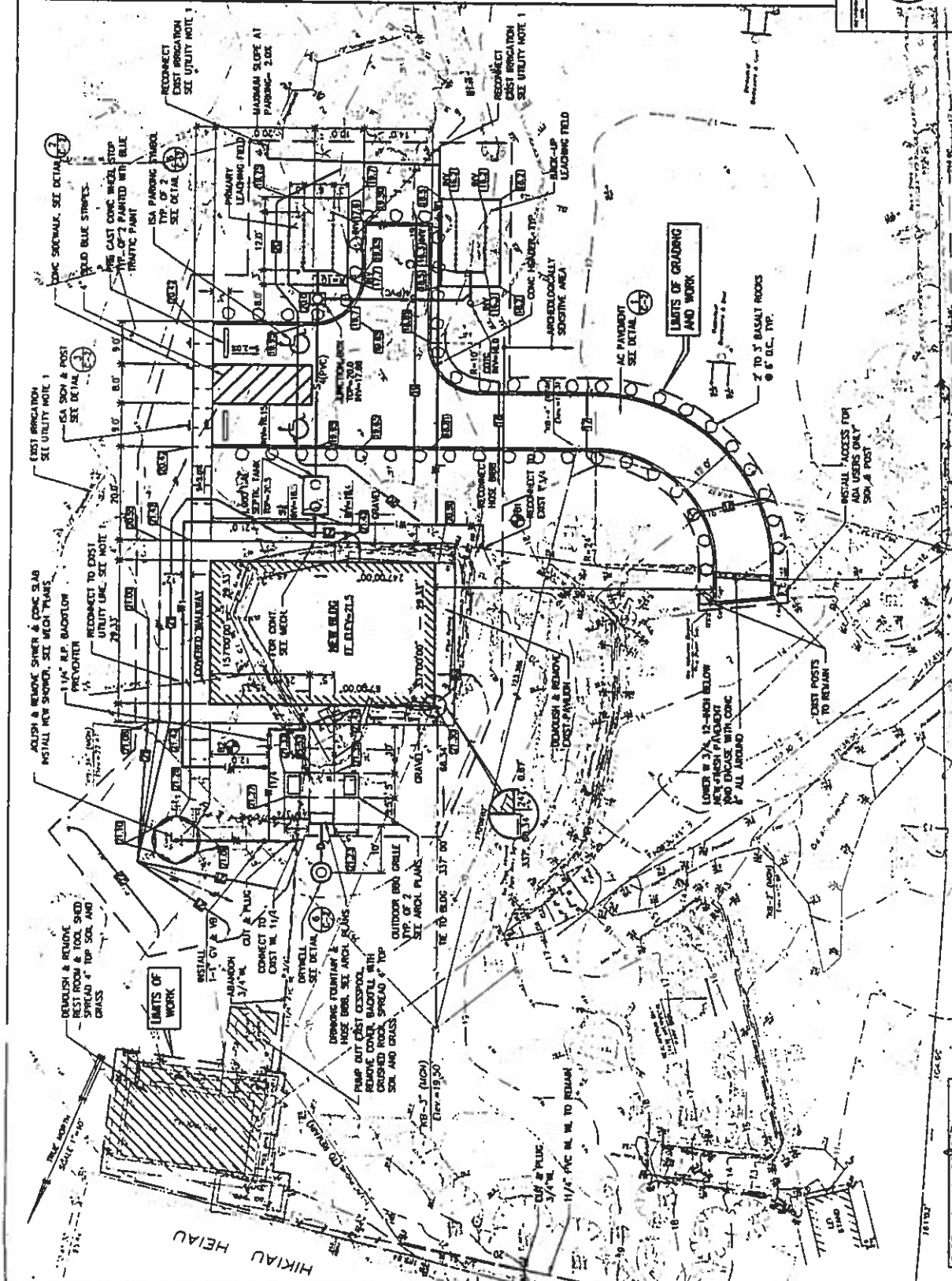
BECAUSE THE PROJECT AREA IS ADJACENT TO HOKAU HEIAU AND SIGNIFICANT CULTURAL DEPOSITS HAVE BEEN LOCATED DURING ARCHAEOLOGICAL TESTING, THE CONTRACTOR MUST CONSULT WITH THE STATE HISTORICAL ARCHIVES ON THE LOCATION AND SURVEILLANCE OF THESE DEPOSITS. THE CONTRACTOR SHALL BE ON-SITE DURING THE WORK AND IS AUTHORIZED TO STOP WORK IN A SPECIFIC LOCATION IF ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED OR IF WORK REVEALS THE PRESENCE OF THE HOKAU HEIAU STRUCTURE. STATE HISTORICAL ARCHIVES WILL BE NOTIFIED IMMEDIATELY. THESE ARCHAEOLOGICAL REMAINS AT NO EXPENSE TO THE CONTRACTOR.

ARCHAEOLOGIST AND CONTRACTOR WILL DETERMINE PRECAUTIONARY MEASURES TO PROTECT HOKAU HEIAU DURING THE DEMOLITION OF THE EXISTING WEST HALL STRUCTURE.

THE ARCHAEOLOGIST WILL DETERMINE IF THE CONTRACTOR'S REMOVAL IS TO BE RETURNED OR RETURNED AFTER THE IS ASSESSED.

ARCHAEOLOGICALLY SENSITIVE AREAS IN THE VICINITY OF THE PROJECT SITE HAVE BEEN IDENTIFIED AND WILL BE AVOIDED BY THE CONTRACTOR DURING CONSTRUCTION.

IF SUBSISTENT CULTURAL DEPOSITS ARE ENCOUNTERED DURING DEMOLITION GRADING OR OTHER GRADING RELATED ACTIVITIES, WORK WILL CEASE IN THE AFFECTED AREA UNTIL THE ARCHAEOLOGIST IS ABLE TO ASSESS AND DOCUMENT THE REMAINS.



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
ENGINEERING DIVISION, LAND DIVISION

NO. 100-100000000-00000
SITE NO. 100-100000000-00000

GRADING, SITE & UTILITY PLAN

DESIGNED BY	DATE	SCALE	PROJECT NO.
CHECKED BY	DATE	SCALE	PROJECT NO.
APPROVED	DATE	SCALE	PROJECT NO.

DATE: 07/11/2012

SCALE: 1"=10'

PROJECT NO. 100-100000000-00000

DATE: 07/11/2012

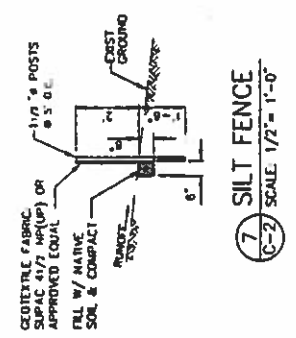
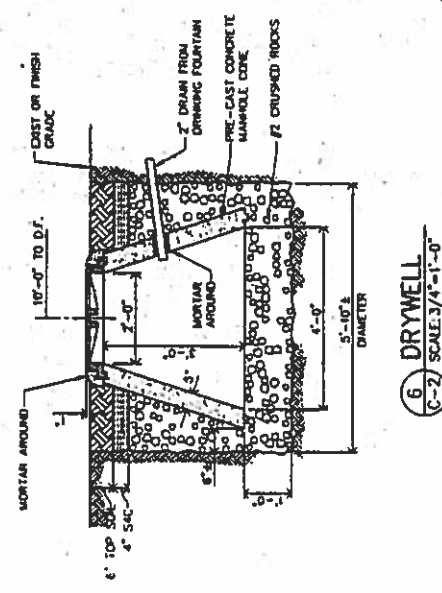
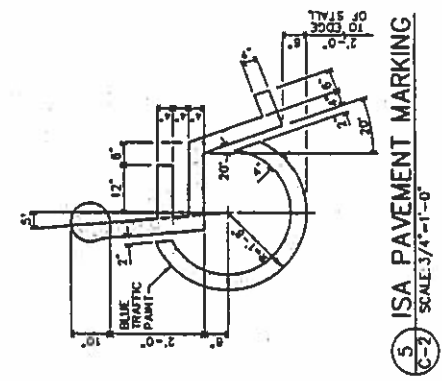
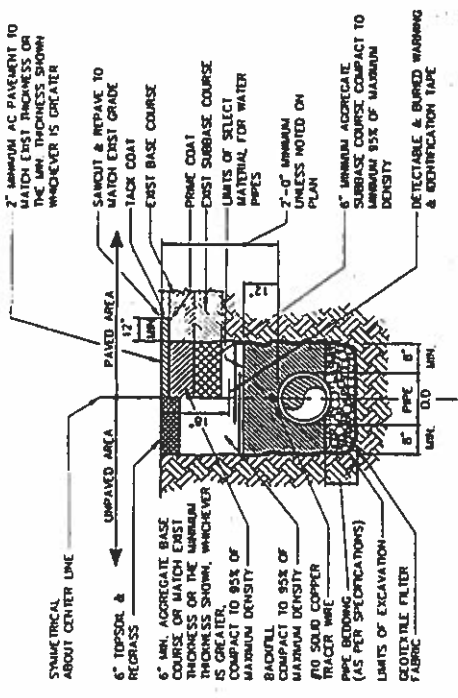
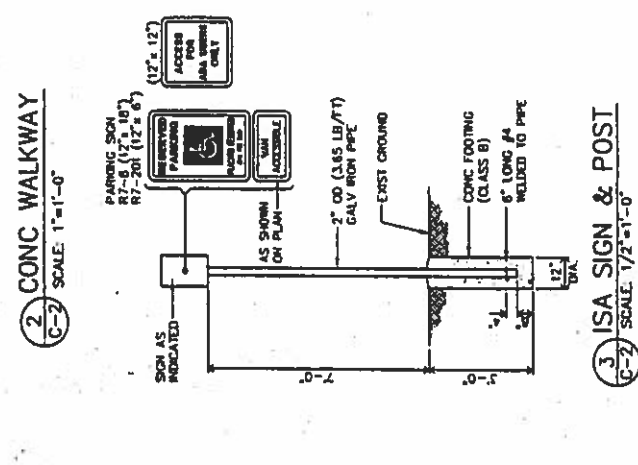
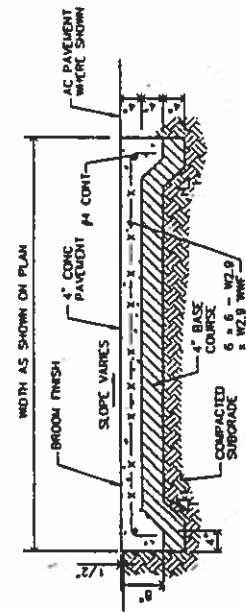
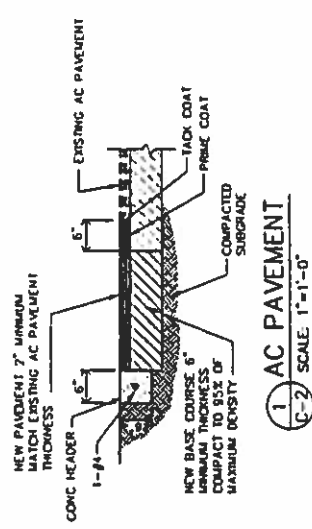
SCALE: 1"=10'

PROJECT NO. 100-100000000-00000

GRADING, SITE & UTILITY PLAN
SCALE: 1"=10'

EARTHWORK QUANTITIES
(ESTIMATED FOR ROUGH PURPOSES ONLY)

AREA TO BE GRADED	8500 SF
EXCAVATION	80 CY
EMBANKMENT	10 CY



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
BUREAU OF PUBLIC LAND DIVISION

HELENA BLAY
STATE HISTORICAL PARK
KAILASHAKA, HAWAII

DETAILS

DESIGNED BY: [Signature]
DATE: MAY 21, 2011
CHECKED BY: [Signature]
SCALE: AS SHOWN

APPROVED BY: [Signature]
DATE: 5/21/11

PROJECT NO: C-2
SHEET NO: 3 OF 21

BORING LOG

NO. 00-102-102L DATE OF DRILLING 3/27/00

DEPTH (FEET)	DESCRIPTION
0-1	Surface
1-2	Topsoil
2-3	Subsoil
3-4	Gravel
4-5	Clay
5-6	Sand
6-7	Gravel
7-8	Clay
8-9	Sand
9-10	Gravel
10-11	Clay
11-12	Sand
12-13	Gravel
13-14	Clay
14-15	Sand
15-16	Gravel
16-17	Clay
17-18	Sand
18-19	Gravel
19-20	Clay
20-21	Sand
21-22	Gravel
22-23	Clay
23-24	Sand
24-25	Gravel
25-26	Clay
26-27	Sand
27-28	Gravel
28-29	Clay
29-30	Sand
30-31	Gravel
31-32	Clay
32-33	Sand
33-34	Gravel
34-35	Clay
35-36	Sand
36-37	Gravel
37-38	Clay
38-39	Sand
39-40	Gravel
40-41	Clay
41-42	Sand
42-43	Gravel
43-44	Clay
44-45	Sand
45-46	Gravel
46-47	Clay
47-48	Sand
48-49	Gravel
49-50	Clay

DESCRIPTION: 4" PERFORATED PVC PIPE (ASTM D-2729 OR EQUAL) WITH 1/2" DIA. HOLES AT 12" ON CENTER. 12" DIA. PERFORATED PVC PIPE (ASTM D-2729 OR EQUAL) WITH 1/2" DIA. HOLES AT 12" ON CENTER. 12" DIA. PERFORATED PVC PIPE (ASTM D-2729 OR EQUAL) WITH 1/2" DIA. HOLES AT 12" ON CENTER.

DATE OF DRILLING: 3/27/00

DRILLER: [Signature]

SCALE: 3/8"=1'-0"

BORING LOG

NO. 00-102-102L DATE OF DRILLING 3/27/00

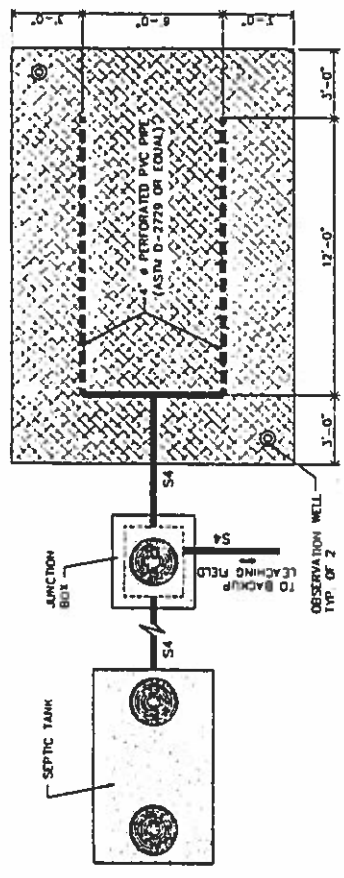
DEPTH (FEET)	DESCRIPTION
0-1	Surface
1-2	Topsoil
2-3	Subsoil
3-4	Gravel
4-5	Clay
5-6	Sand
6-7	Gravel
7-8	Clay
8-9	Sand
9-10	Gravel
10-11	Clay
11-12	Sand
12-13	Gravel
13-14	Clay
14-15	Sand
15-16	Gravel
16-17	Clay
17-18	Sand
18-19	Gravel
19-20	Clay
20-21	Sand
21-22	Gravel
22-23	Clay
23-24	Sand
24-25	Gravel
25-26	Clay
26-27	Sand
27-28	Gravel
28-29	Clay
29-30	Sand
30-31	Gravel
31-32	Clay
32-33	Sand
33-34	Gravel
34-35	Clay
35-36	Sand
36-37	Gravel
37-38	Clay
38-39	Sand
39-40	Gravel
40-41	Clay
41-42	Sand
42-43	Gravel
43-44	Clay
44-45	Sand
45-46	Gravel
46-47	Clay
47-48	Sand
48-49	Gravel
49-50	Clay

DESCRIPTION: 4" PERFORATED PVC PIPE (ASTM D-2729 OR EQUAL) WITH 1/2" DIA. HOLES AT 12" ON CENTER. 12" DIA. PERFORATED PVC PIPE (ASTM D-2729 OR EQUAL) WITH 1/2" DIA. HOLES AT 12" ON CENTER. 12" DIA. PERFORATED PVC PIPE (ASTM D-2729 OR EQUAL) WITH 1/2" DIA. HOLES AT 12" ON CENTER.

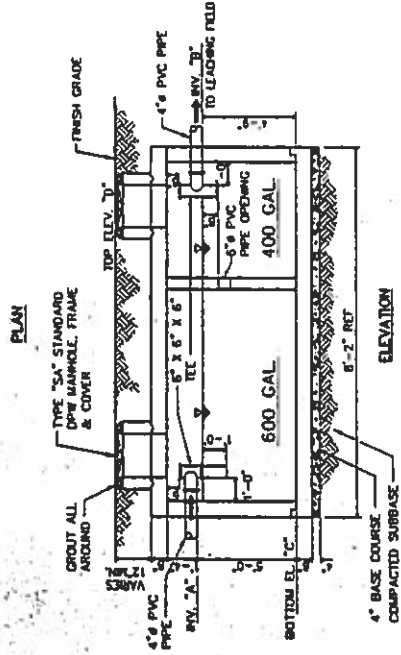
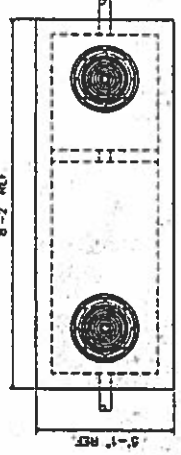
DATE OF DRILLING: 3/27/00

DRILLER: [Signature]

SCALE: 3/8"=1'-0"



1 SEWER SYSTEM LAYOUT
SCALE: 3/8"=1'-0"

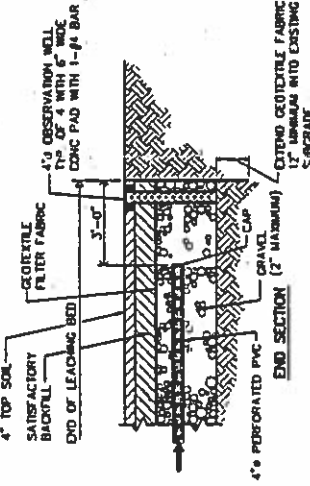
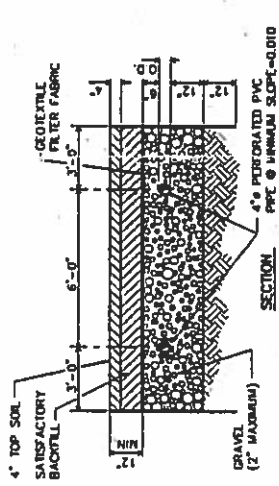
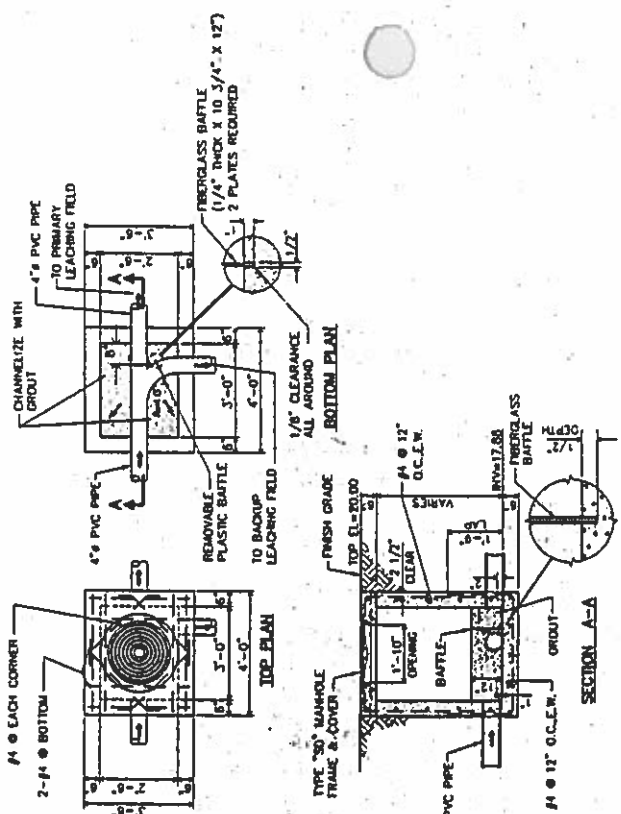


SEPTIC TANK	"A"	"B"	"C"	"D"
1	18.40	18.15	13.40	20.50

SEPTIC TANK VOLUME = 1,000 GALLONS

NOTE: PRE-CAST D.O.H. APPROVED DOUBLE COMPARTMENT CONIC TANK PLASTIC TANK OR FIBERGLASS TANK MAY BE SUBSTITUTED PROVIDED THEY MEET DOT APPROVAL. CONIC ANCHOR PAD SHALL BE USED WITH FIBERGLASS AND PLASTIC TANKS.

2 SEPTIC TANK
SCALE: 3/8"=1'-0"

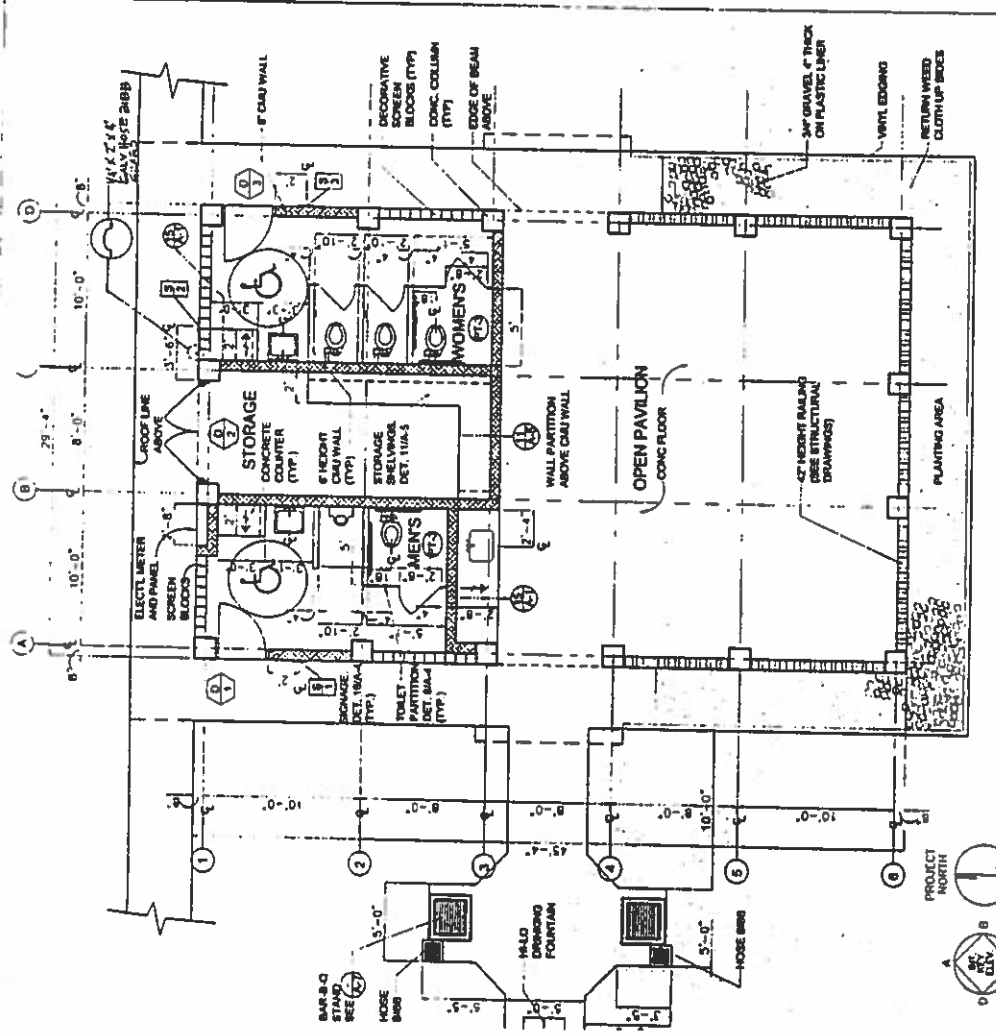
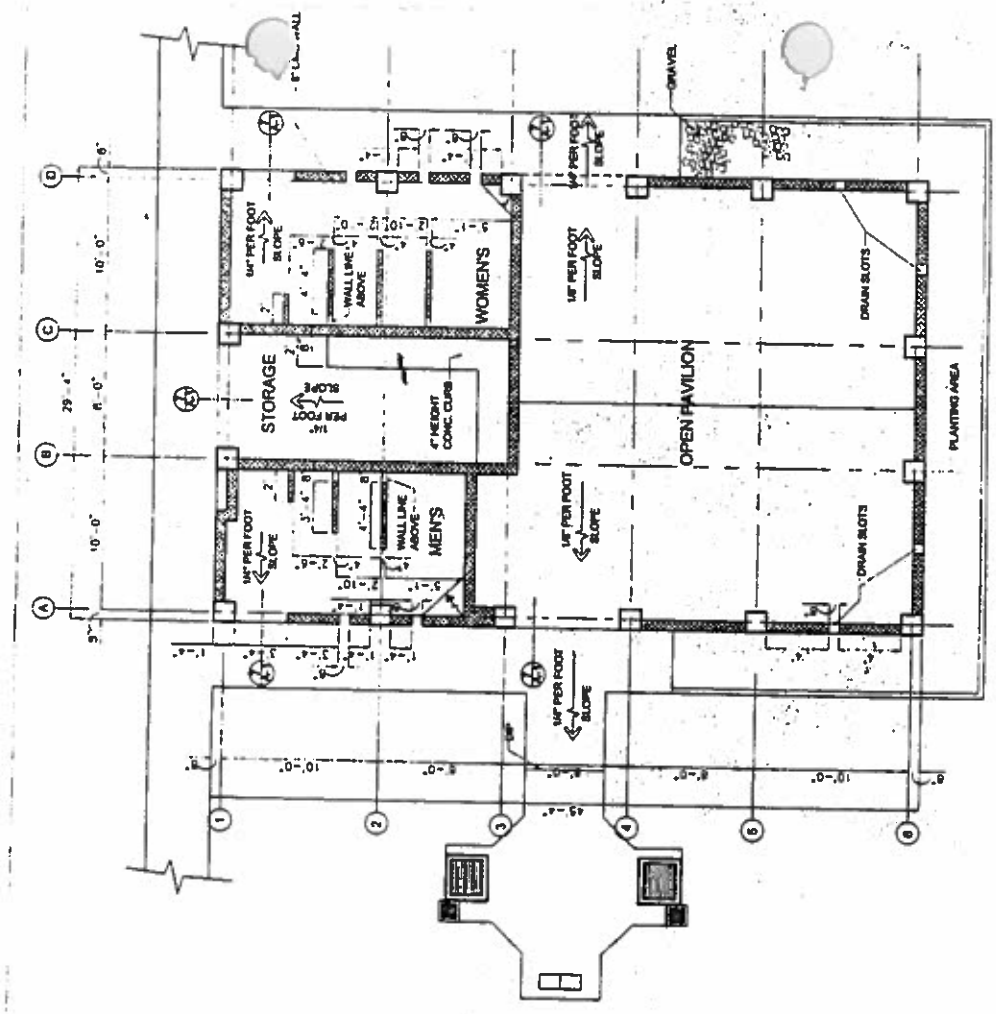


3 LEACHING BED
NO SCALE

STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
STEWART MERRILL PARK
SEWER SYSTEM DETAILS & BORING LOG

DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 04/11/00
SCALE: AS SHOWN

PROJECT NO. C-3
SHEET NO. 1 OF 21 SHEETS



<p>FLOOR PLAN</p> <p>SCALE 1/4" = 1'-0"</p> <p>8</p>		<p>SLAB FINISH PLAN</p> <p>SCALE 1/4" = 1'-0"</p> <p>8</p>	
<p>TYPICAL EDGE & WALL CONDITION @ CONCRETE COUNTER</p> <p>SCALE 3/4" = 1'-0"</p> <p>15</p>		<p>THRESHOLD DETAIL AT DOOR</p> <p>SCALE 3/4" = 1'-0"</p> <p>7</p>	
<p>STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION STATE ENGINEER STATE OF HAWAII STATE ENGINEER STATE OF HAWAII STATE ENGINEER</p> <p>PROJECT NO. 15-10-00000 DATE: 04/11/2010 SCALE: AS SHOWN DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: 04/11/2010</p>		<p>STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION STATE ENGINEER STATE OF HAWAII STATE ENGINEER STATE OF HAWAII STATE ENGINEER</p> <p>PROJECT NO. 15-10-00000 DATE: 04/11/2010 SCALE: AS SHOWN DRAWN BY: [Signature] CHECKED BY: [Signature] DATE: 04/11/2010</p>	