

JOSH GREEN, M.D.
GOVERNOR
KE KIA'ĀINA



KEITH A. REGAN
COMPTROLLER
KA LUNA HO'OMALU HANA LAULĀ

MEOH-LENG SILLIMAN
DEPUTY COMPTROLLER
KA HOPE LUNA HO'OMALU HANA LAULĀ

STATE OF HAWAII | KA MOKU'ĀINA O HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES | KA 'OIHANA LOIHELU A LAWELAWÉ LAULĀ
P.O. BOX 119, HONOLULU, HAWAII 96810-0119

FEB - 9 2024

PM-3005.4

Mary Alice Evans, Director
Office of Planning and Sustainable Development
Department of Business, Economic Development and Tourism
235 South Beretania Street, Room 702
Honolulu, Hawaii 96813

Dear Mary Alice Evans:

Subject: Draft Environmental Assessment
Makawao Public Library
Improvements, Renovation, and Expansion
D.A.G.S. Job No. 15-36-6626
Tax Map Key: [2] 2-4-031: 007
Makawao, District of Makawao, Maui, Hawaii

The Department of Accounting and General Services, State of Hawaii, has reviewed the Draft Environmental Assessment for the subject project and is issuing an Anticipated Finding of No Significant Impact (AFONSI) determination. Please publish this determination in the next Environmental Notice.

The purpose of the proposed action is to renovate a government service facility to meet the needs of the region's residents and to transition the 50+ year old library into a 21st century facility.

The Draft Environmental Assessment will be uploaded to the Environmental Review Program website with the Environmental Notice publication form.

Please contact Mr. Reynaldo Rios of our Project Management Branch at (808) 586-0468 or email at reynaldo.d.rios@hawaii.gov if you have any questions.

Very truly yours,

A handwritten signature in black ink, appearing to read "Gordon S. Wood".

GORDON S. WOOD
Acting Public Works Administrator

RR/si

From: webmaster@hawaii.gov
To: [DBEDT OPSD Environmental Review Program](#)
Subject: New online submission for The Environmental Notice
Date: Monday, February 12, 2024 9:49:39 AM

Action Name

Makawao Public Library Improvements, Renovation, and Expansion

Type of Document/Determination

Draft environmental assessment and anticipated finding of no significant impact (DEA-AFNSI)

HRS §343-5(a) Trigger(s)

- (1) Propose the use of state or county lands or the use of state or county funds

Judicial district

Makawao, Maui

Tax Map Key(s) (TMK(s))

[2] 2-4-031: 007

Action type

Agency

Other required permits and approvals

DCAAB Facility Access Review, Variance from Pollution Controls, Chapter 6E Historic Site Review, Building Permit, Certificate of Occupancy, Electrical, Plumbing, Grading, Stormwater Runoff Control, Work upon County Highway, Fire Protection

Proposing/determining agency

Department of Accounting and General Services, State of Hawaii

Agency contact name

Rey Rios

Agency contact email (for info about the action)

reynaldo.d.rios@hawaii.gov

Email address or URL for receiving comments

reynaldo.d.rios@hawaii.gov

Agency contact phone

(808) 586-0468

Agency address

1151 Punchbowl Street
Honolulu, HI 96813
United States
[Map It](#)

Was this submittal prepared by a consultant?

Yes

Consultant

Gerald Park Urban Planner

Consultant contact name

Gerald Park

Consultant contact email

gpark@gpup.biz

Consultant contact phone

(808) 625-9626

Consultant address

95-595 Kanamee Street #324
Mililani, HI 96789
United States
[Map It](#)

Action summary

The project will improve, renovate, and expand the Makawao Public Library. Actions affecting exterior areas include removing four parking stalls, trees, an electrical transformer and trash enclosure at the rear of the building, grading, and installation of a new drainage system.

The interior generally will be gutted except for selected architectural / building components and structural members. Existing improvements that are removed will be replaced in-kind with new code-compliant systems and materials. The major improvement is the construction of a two-level, 2,000 square foot addition. The addition will provide 1,000 feet ground level space for electrical, telecom equipment, and storage. Two meeting rooms for library and public use will be provided on the second level.

The Library will be closed for the duration of construction which is tentatively projected to commence in January 2025 with completion sometime in 2026.

Reasons supporting determination

See Section 7 Determination of Significance

Attached documents (signed agency letter & EA/EIS)

- [Makawao-Public-Library.pdf](#)
- [DAGS-PWA-Letter-to-DBEDT-EA.PDF](#)

Action location map

- [Makawao-Public-Library-Fig-1a-Standard.zip](#)

Authorized individual

Gerald Park

Authorization

- The above named authorized individual hereby certifies that he/she has the authority to make this submission.

DRAFT ENVIRONMENTAL ASSESSMENT

MAKAWAO PUBLIC LIBRARY *Improvements, Renovation, and Expansion* *District of Makawao, Maui, Hawai'i*



Entry to Makawao Public Library from Makawao Avenue

Prepared For

*Department of Accounting and General Services
State of Hawai'i
P.O. Box 119
Honolulu, HI 96810--119*

July 2023

PROJECT PROFILE

Project: Makawao Public Library
Improvements, Renovation, and Expansion
DAGS Job No. 15-36-6626

Street Address: 1159 Makawao Avenue
Makawao, Hawai'i 96768

Proposing/Determining Agency: Department of Accounting and General Services
State of Hawai'i
PO Box 119
Honolulu, Hawai'i 96810-0119

Tax Map Key: [2] 2-4-031: 007
Land Area: 0.6129 acres or 26,697 square feet
Area To Be Disturbed: <c. 14,500 square feet

Land Owner: State of Hawai'i

State Land Use Designation: Urban
Community Plan: Makawao-Pukalani-Kula
Land Use: Public / Quasi Public
Zoning: P-1 (Public / Quasi Public District)
Special Management Area: Outside Special Management Area

Existing Use: Public Library

Need for Environmental Assessment: Chapter 343, Hawai'i Revised Statutes
§343-5(a)(1) Propose the use of state or
county lands or state or county funds

Determination: Anticipated Finding of No Significant Impact

Project Contact: Rey Rios, Project Manager
Department of Accounting and General Services
Po Box 119
Honolulu, HI 96810-0119

Phone: 808-586-0468
Email: reynaldo.d.rios@hawaii.gov

TABLE OF CONTENTS

	PROJECT PROFILE	i
	TABLE OF CONTENTS	ii
	FIGURES, TABLES, PHOTOGRAPHS	iv
SECTION 1	DESCRIPTION OF THE PROPOSED ACTION	1
	A. Purpose of the Proposed Action	1
	B. Technical Characteristics	1
	1. Demolition	1
	2. Proposed Improvements	2
	3. Circulation and Parking	2
	4. Grading	2
	5. Drainage	4
	6. Infrastructure	4
	7. Fire Protection	4
	8. Lighting	4
	9. Landscaping	4
	10. Sustainability	4
	C. Economic Characteristics	5
	D. Social Characteristics	5
SECTION 2	DESCRIPTION OF THE AFFECTED ENVIRONMENT	18
	A. Existing Conditions	18
	B. Environmental Characteristics	18
	1. Climate	18
	2. Topography	18
	3. Soils	19
	4. Water Resources	19
	a. Ground Water	19
	b. Surface water	19
	5. Flood Hazard	20
	6. Biological Resources	20
	7. Archaeological Resources	20
	C. Land Use Controls	20
	D. Facilities	24
SECTION 3	SUMMARY OF POTENTIAL ENVIRONMENTAL IMPACTS AND MEASURES TO MITIGATE ADVERSE EFFECTS	26
	A. Assessment Process	26
	B. Short-term Impacts	26
	1. Erosion Control and Storm Water Management	26
	2. Air Quality	27
	3. Noise	27
	4. Flora	28

TABLE OF CONTENTS

	5. Historical Features	28
	6. Traffic	28
	7. Library Use	28
	C. Long-term Impacts	29
SECTION 4	ALTERNATIVES TO THE PROPOSED ACTION	31
	A. No Action/Delay the Action	31
SECTION 5	AGENCIES AND ORGANIZATIONS TO BE CONSULTED IN THE ENVIRONMENTAL ASSESSMENT PROCESS	32
SECTION 6	PERMITS AND APPROVALS	33
SECTION 7	DETERMINATION OF SIGNIFICANCE	34
REFERENCES		36

FIGURES

<u>Figure</u>	<u>Title</u>	<u>Page</u>
1	Vicinity Map	6
2	Tax Map	7
Sheet C200	Demolition Plan (Civil)	8
Sheet A101	Floor Plan Removal Work (Architecture)	9
Sheet C201	Site Plan (Civil)	10
Sheet A100	Site Plan Lower Level Floor Plan	11
Sheet A111	Main Level Floor Plan	12
Sheet A201	North and West Elevations	13
Sheet A202	South and East Elevations	14
Sheet A301	Building Sections	15
Sheet C-200	Grading Plan	16
Sheet L001	Landscape Plan	17
3	Flood Insurance Rate Map	21
4	Zoning	23

TABLES

<u>Table</u>	<u>Title</u>	<u>Page</u>
1	Aquifer Classification System	19

PHOTOGRAPHS

<u>Photograph</u>	<u>Title</u>	<u>Page</u>
**	Entry to Makawao Public Library from Makawao Avenue	Cover
1	South View of Building Corner Proposed for the 2-Story Addition	3
2	West View of Building Corner. Four Parallel Parking Stalls on Left of Building to be Removed.	3

SECTION 1 DESCRIPTION OF THE PROPOSED ACTION

The Department of Accounting and General Services (“DAGS”), State of Hawai‘i, proposes to construct improvements at Makawao Public Library located in the “Upcountry” town of Makawao, District of Makawao, Maui, Hawai‘i. Located on Makawao Avenue near the center of town, the Library is bounded by a single-family dwelling to the northwest, commercial activities to the east and southeast, and a parking lot to the southwest. A dense canopy of trees, palms, vegetation also bound the Library to the north and west. Makawao, which in Hawaiian means “Eye of the Forest”, is at the center of four towns--- Hali‘imaile, Ha‘iku, Pukalani, and Kula--- that make up what is known as Upcountry Maui.

The 0.6129 acre parcel bears Tax Map Key: [2] 2-4-031: 007 and is owned by the State of Hawai‘i. A Vicinity Map and Tax Map are shown as Figures 1 and 2.

A. Purpose of the Proposed Action

The purpose of the action is to renovate a government service facility to meet the needs of the region’s residents and to transition the 50+ year old Library into a 21st century facility.

B. Technical Characteristics

1. Demolition

Exterior and interior improvements to be demolished / removed cited below and shown on the respective drawing sheets Sheet C200 and A101 are indicative of the scope of demolition and not a comprehensive accounting.

a. Exterior Areas (Civil Work, See Sheet C200)

- All existing curbs and pavements
- Four parallel parking stalls along north side of building
- Ramp, front and rear stairs and guardrail on north side of building
- Four trees (2 gold and 2 pink tecoma trees)
- Planting area at foot of ramp
- Chain link fencing at rear and west corner
- Steps at the tree *lanai*
- Electrical transformer and trash enclosure at rear of building
- Light poles at parking area
- Driveway gate

b. Main Level (Architecture Work, See Sheet A101)

- All windows
- All doors
- Plaster Board Ceiling
- Acoustical Ceiling System
- All light fixtures

- Skylights
- Air conditioning system
- Flooring at Collection, Workroom, and Restrooms
- Doors and Frames
- Sink, Counter, Cabinets in Workroom Area
- Partition Doors and Frames
- Portion of Roof Overhand in North Corner (c.500 square feet)
- Mechanical Enclosure (Ground Level)
- Air cooled condensing unit and all piping on lower level
- All duct work and controls
- All water closets and urinals, drinking fountain, and service sink

The interior generally will be gutted except for selected architectural / building components and structural members.

2. Proposed Improvements

A two-level, c. 2,000 square foot addition will be constructed in the north corner of the building (See Photographs 1 and 2). The proposed 1,000 square foot Ground Level will house an electrical room, telecom room, and general storage rooms. Mechanical equipment for the HVAC system will be located outside the addition and fenced. The addition will be erected on a poured in place concrete slab and framed with cement masonry units.

Two meeting rooms of 592 and 354 square feet will be provided in the north corner of the Main Level. Existing improvements removed from the interior will be replaced in kind with new, energy efficient components, fixtures, furnishings, stairs, doors, windows, HVAC system, lights, skylights, and flooring. The interior floor will be of concrete with cement masonry units forming the interior walls.

The height of the addition is estimated at 22'-10" above existing grade.

3. Circulation and Parking

The parking lot will provide 17 parking stalls. An existing accessible stall and loading zone will remain at the front of the Library. The parking area will be demolished and reconfigured. Four parking stalls will be removed to provide space for the new addition, relocated trash enclosure, and drainage improvements. The two-way driveway will be retained.

4. Grading

Excavation and embankment are required for reconfiguring the parking area and areas around the Library building. Approximately 14,500 square feet will be disturbed most of which is in the parking area. Excavation is estimated at 250 CY and embankment 50 CY.

Erosion control measures will be incorporated during construction to minimize soil loss and erosion hazards. Best Management Practices (BMPs) will include silt fences, dust fences, and a stabilized construction vehicle entrance.



Photograph 1. South View of Building Corner Proposed for the 2-Story Addition.



Photograph 2. West View of Building Corner. Four Parallel Parking Stalls on Left of Building to be Removed.

5. Drainage

On-site drainage improvements consist of three dry wells and a 45-foot long, 3'W X 4'D infiltration trench installed at the rear. Roof runoff will discharge into the drywells and the infiltration trench will collect runoff from the parking area.

6. Infrastructure

The project will continue to draw potable water from a 6-inch water main within Makawao Avenue through an existing 1½-inch water meter. Based on the future fixture count, the existing water meter can provide adequate domestic water flow.

Domestic water demand is estimated at 12 gallons per person per day multiplied by the number of current staff and patrons per day.

An existing 1,000-gallon septic tank and seepage pit will remain at their current respective locations. Both will be drained and cleaned. The existing system can accommodate up to 225 users (staff and patrons) per day.

7. Fire Protection

Both floors will be equipped with fire sprinklers. Fire flow will be provided by an 8-inch fire service line connected to a similar sized line in Makawao Avenue.

8. Lighting

Existing interior and exterior light fixtures will be replaced with energy efficient LED lights controlled by an automatic lighting system. All exterior / outdoor light fixtures will comply with all County of Maui outdoor lighting ordinances and building codes, including Ordinance No. 5434 (2022).

9. Landscaping

The parking area will be landscaped with gold trees, mock orange hedges, and a Hawaiian Garden. Three existing pink tecoma trees west side of the parking area will be removed and three on the north side will remain in place. A Landscape Plan is shown as Sheet L001.

10. Sustainability

Sustainable design features for creating and enhancing a comfortable, productive, healthy, and quality environment are proposed. Features promoting energy conservation and minimizing consumption include energy efficient lighting (LED lights) and controls (dimming switches and occupancy sensors), daylight harvesting (use of natural lighting and reduction in artificial lighting), and a high efficiency HVAC system.

Flow reducers on plumbing fixtures, low gallon flush toilets, and smart controllers will aid in water conservation in restrooms, drinking fountains, and irrigation system

C. Economic Characteristics

The construction cost is estimated at \$7.5 million and will be funded by the State of Hawai'i. Work will commence after all construction permits and approvals have been received. The project will be constructed in one phase tentatively beginning about January 2025 with completion sometime in 2026.

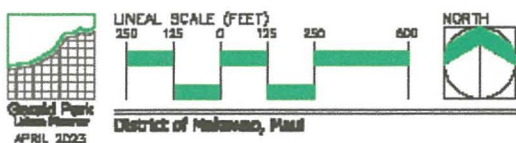
D. Social Characteristics

The library will be closed for the duration of construction. A temporary location for a library has yet to be identified. A temporary location would provide limited services and access to a limited reading and digital collections. A bookmobile may be available for occasional visits but it cannot be stationed for long durations due to commitments for stops across the island.

In lieu of a temporary library and occasional bookmobile service, the Wailuku and Kahului Public Libraries can provide library services for Upcountry residents although both are distant from Upcountry.



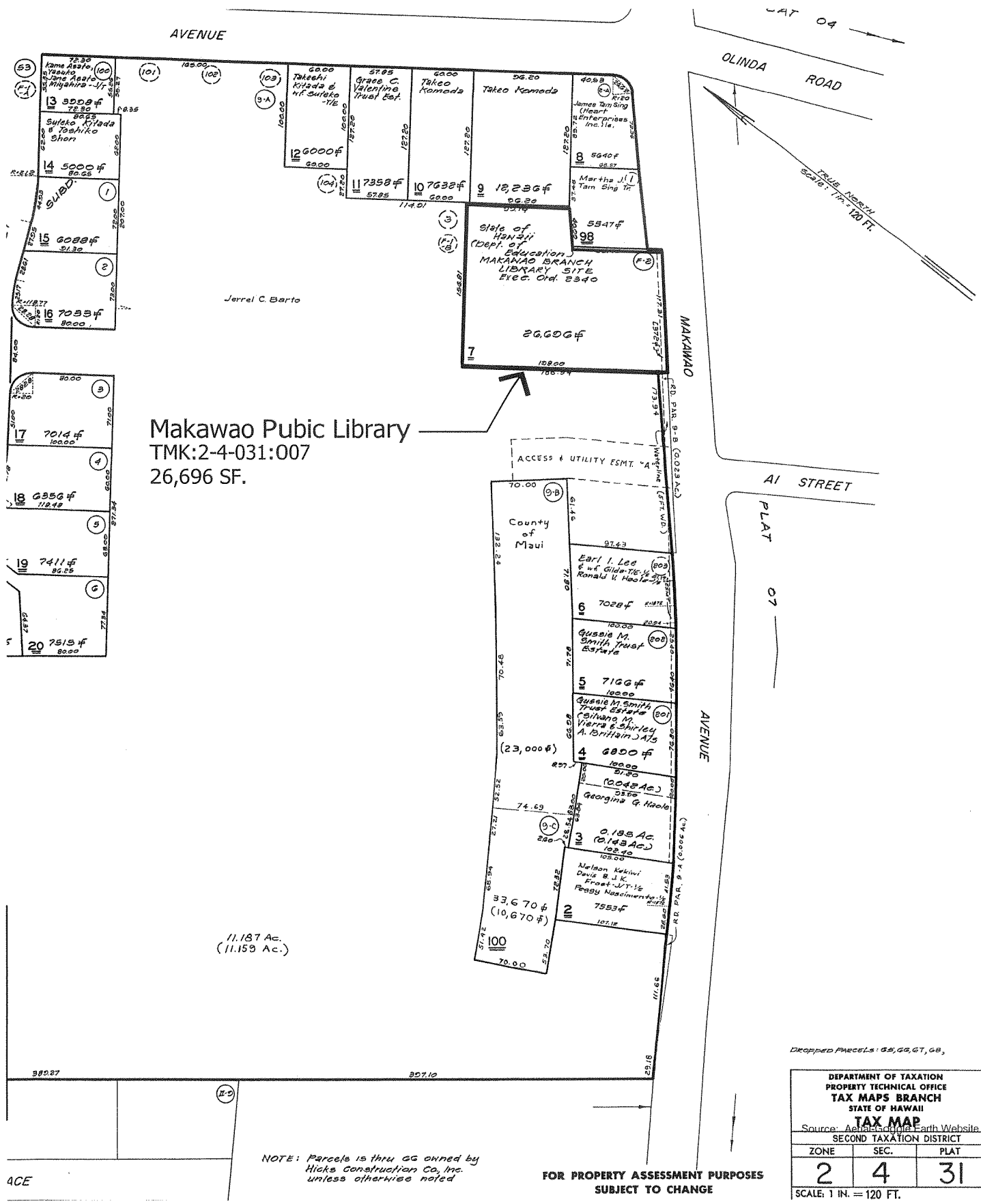
Source: Aerial-Coogle Earth Website



District of Makawao, Maui

Figure 1
Vicinity Map
Makawao Public Library

Department of Accounting and General Services, State of Hawaii



Makawao Public Library
 TMK:2-4-031:007
 26,696 SF.

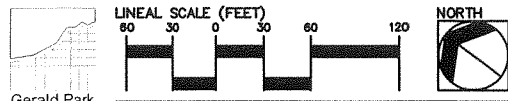


Figure 2
 Tax Map
 Makawao Public Library
 Department of Accounting and General Services, State of Hawaii

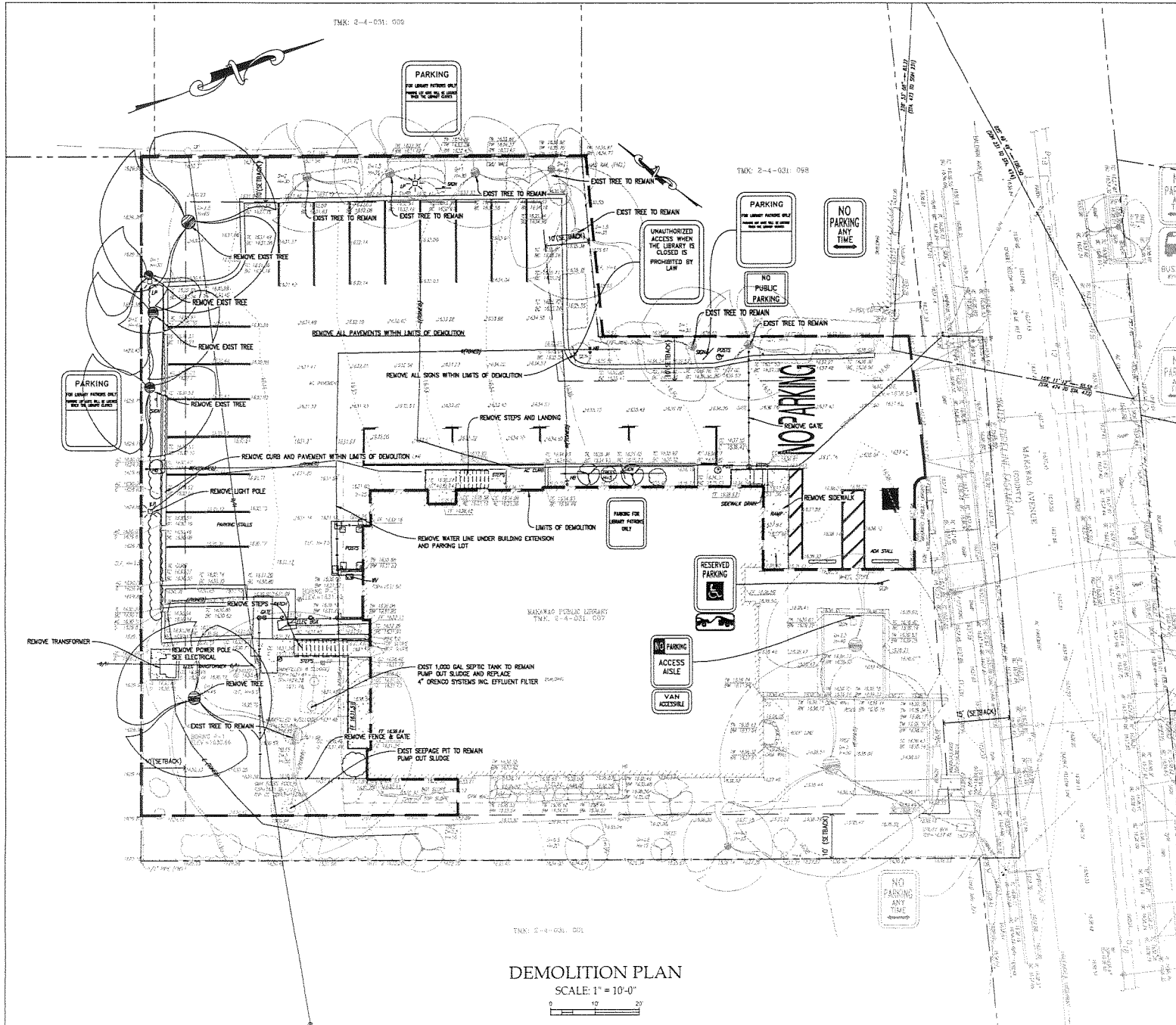
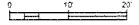
TAK: 2-4-031: 000

TAK: 2-4-031: 000

TAK: 2-4-031: 001

DEMOLITION PLAN

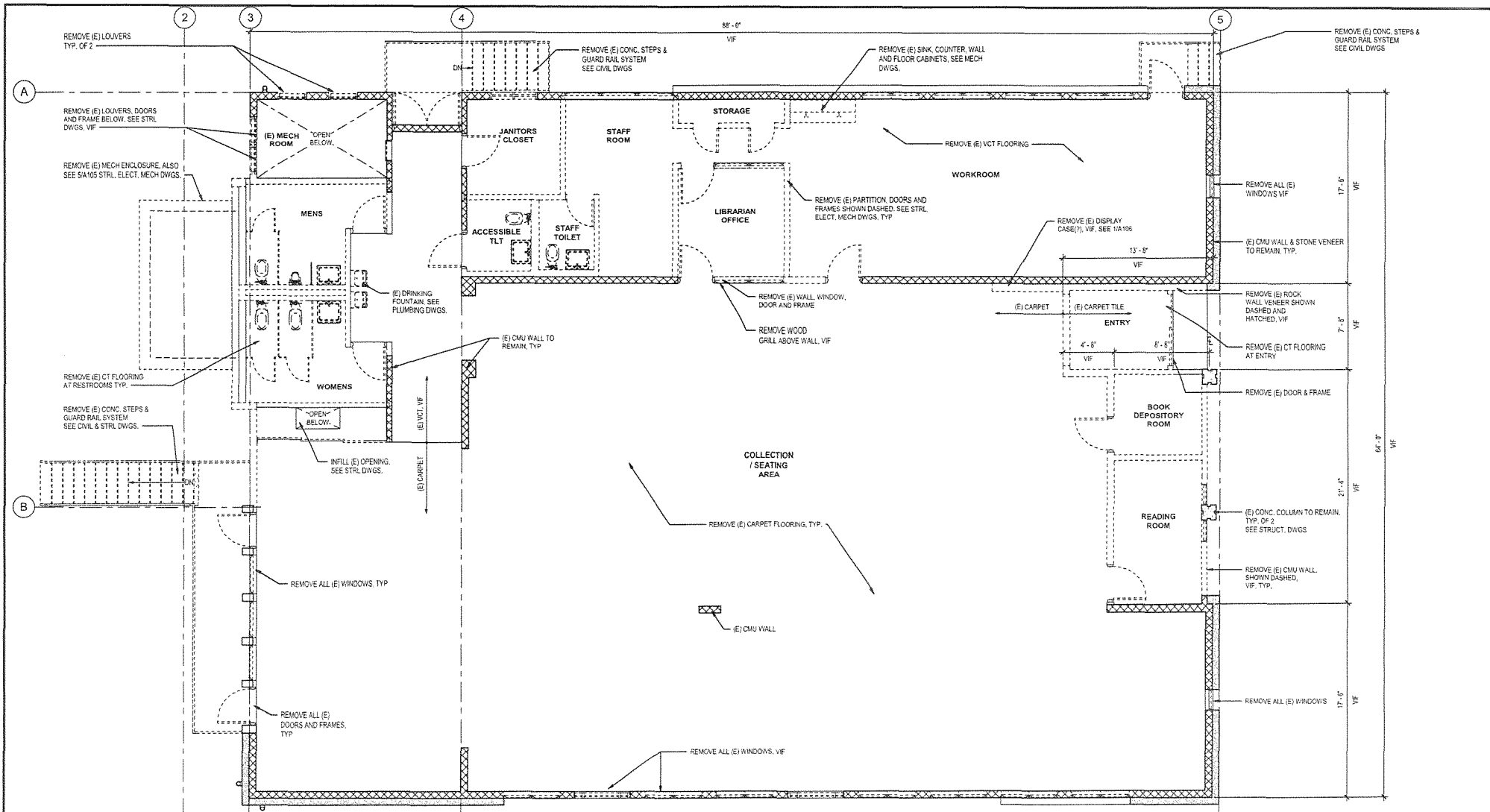
SCALE: 1" = 10'-0"



DEMOLITION NOTES:

- All applicable construction work shall be done in accordance with the Standard Specifications for Public Works Construction, September 1986 and Standard Details for Public Works Construction, September 1984, as amended, of the Department of Public Works, City and County of Honolulu and the Counties of Kauai, Maui, and Hawaii.
- The underground pipes, cables or ductlines known to exist by the engineer from his search of records are indicated on the plans. The Contractor shall verify the locations and depths of the facilities and exercise proper care in excavating in the area. When demolishing existing utilities the Contractor shall exercise due care to ensure that existing utilities which are to remain are not damaged. Any damages due to contractor operations shall be repaired to the satisfaction of the owner at the expense of the contractor.
- No Contractor shall perform any demolition operation so as to cause falling rocks, soil or debris in any form to fall, slide or flow into existing City drainage systems, or adjoining properties, streets or natural watercourses. Should such violations occur, the Contractor may be cited and the Contractor shall immediately make all remedial actions necessary.
- The Contractor shall be responsible for conformance with the applicable provisions of the water quality and water pollution control standards contained in Hawaii Administrative Rules, Title 11, Chapter 54, "Water Quality Standards", and Title 11, Chapter 55, "Water Pollution Control", as amended. Best Management Practices shall be employed at all times during construction.
- Pursuant to Chapter 6E, HRS, in the event any artifacts or human remains are discovered during construction operations, the Contractor shall immediately suspend work and notify the Maui Police Department, the State Department of Land and Natural Resources - Historic Preservation Division (692-8015).
- All debris from the demolition operation shall be removed from the site at the expense of the contractor.
- Any items which are to be salvaged shall be delivered to a location as determined by the owner.
- All structures, pavements (including base course), curbs, fencing, walls, stairs, foundations, signs, utilities, light poles, conduits and any surface objects shall be removed down to subgrade unless indicated to remain.
- When removing pavements and sidewalks refer to site plan for exact location for sawcut and transition to new construction.
- The Contractor shall ensure that all existing utilities (whether or not shown on the plans) which include water, drain, sewer, irrigation, electrical, communication, data be protected at all times. Should any damages occur the Contractor shall be responsible and pay for any repairs or fines necessary.
- All existing trees and shrubs including roots shall be removed down to 3' below grade. All surface vegetation (grassing, ground cover) to be grubbed to a minimum depth of 6". See landscape plans for tree removal.
- The contractor shall coordinate with the respective utility companies for cutting & plugging of existing laterals (to be performed by contractor).
- All existing utilities within limits of demolition to be removed unless indicated to remain. See utility plan for items which are to be relocated/reconnected.
- Should any debris including tires, automotive parts, garbage be found during clearing of site, it shall be removed and disposed of by the contractor.
- See Landscaping plans for irrigation and landscaping demolition work.
- See Electrical plans for electrical and communication demolition work.
- The "PROTECTED ZONE" area identified contains underground septic tanks, distribution boxes and lines and disposal pit. The contractor shall exercise caution while working in these areas and avoid using heavy machinery. Any damages to the system shall be repaired by the contractor at no cost to the State. If noticeable signs of collapse such as settlement or depressions are visible exploratory excavation will be required to determine the condition of the system.

REV	DATE	DESCRIPTION	BY	DATE	APPROVED BY
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES STATE OF HAWAII					
MAKAWAO PUBLIC LIBRARY IMPROVEMENTS, RENOVATION AND EXPANSION 1159 MAKAWAO AVE., MAKAWAO, HI 96768					
DEMOLITION PLAN					
DESIGNED BY CYO		CHECKED BY ATO		DATE APRIL 2023	SCALE 1"=10'-0"
DRAWN BY CYO		APPROVED BY ATO		DATE APRIL 2023	SCALE 1"=10'-0"
AS NOTED					



1 (E) FLOOR PLAN - REMOVAL WORK (SEE A-104, A-105)

SCALE: 1/4" = 1'-0"

LEGEND

--- EXISTING STRUCTURE WALLS & PARTITIONS TO BE REMOVED, VIF

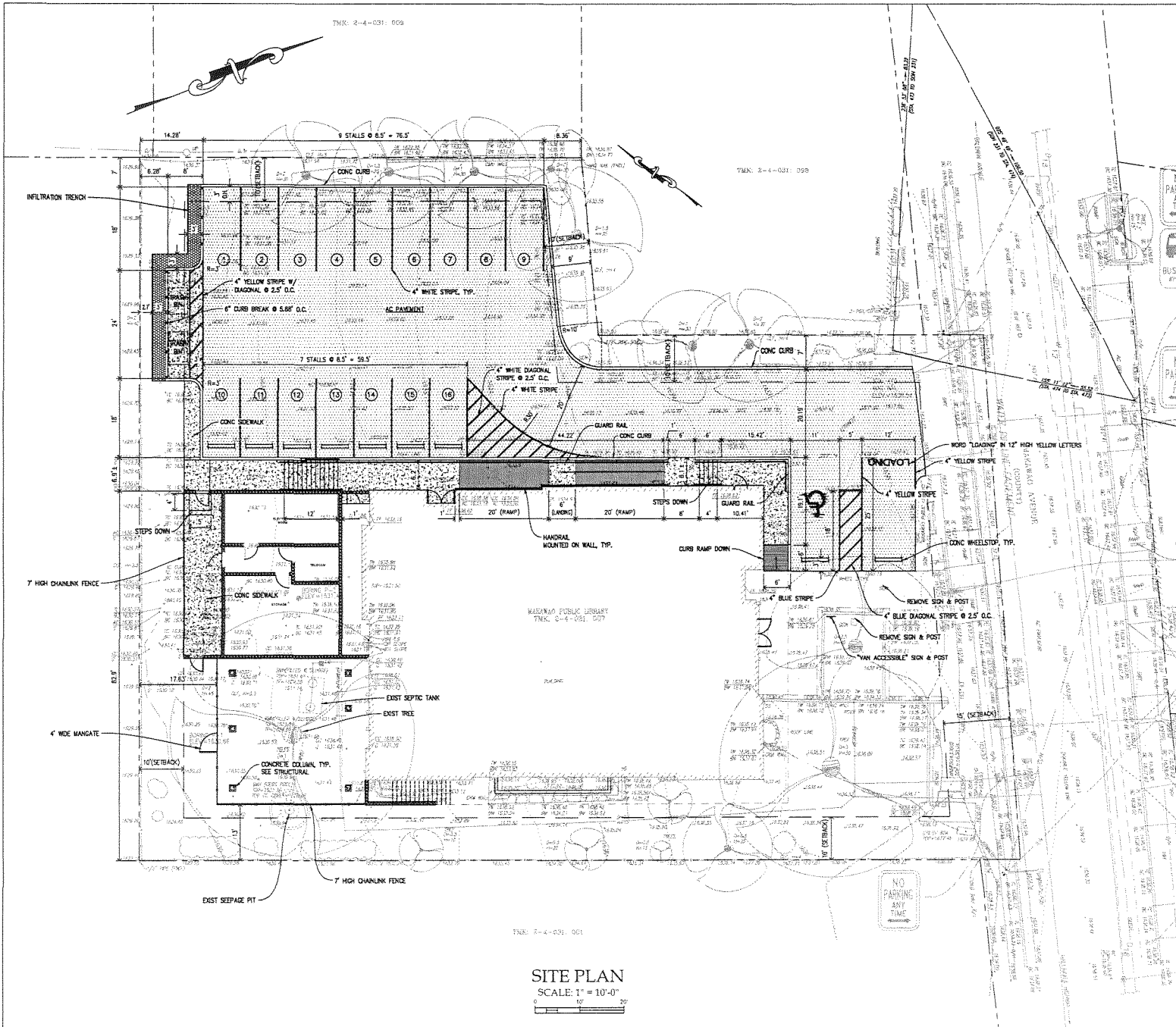
NOTE:

1. REMOVE ALL FLOORING MATERIAL TO CONC. SUBSTRATE. PATCH/FILL SMOOTH TO ACCOMMODATE NEW FLOORING.
2. SEE ELECTRICAL, MECHANICAL, & PLUMBING FOR ADDITIONAL INFORMATION.



1/4" = 1'-0"

REV.	DATE	DESCRIPTION	BY	DATE	APPROVED BY
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES STATE OF HAWAII MAKAWAO PUBLIC LIBRARY IMPROVEMENTS, RENOVATION AND EXPANSION 1159 MAKAWAO AVE, MAKAWAO, HI 96768 (E) MAIN LEVEL FLOOR PLAN - REMOVAL WORK					
DESIGN PARTNERS INC. 15-38-6628 APRIL 30 2024 EXPIRATION DATE OF THE LICENSE		DESIGNER CHECKER AUTHOR APPROVER		15-38-6628 A101 12 APRIL 2023 OF 67 SHEETS	
AS NOTED					

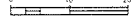


TMK: 2-4-031-009

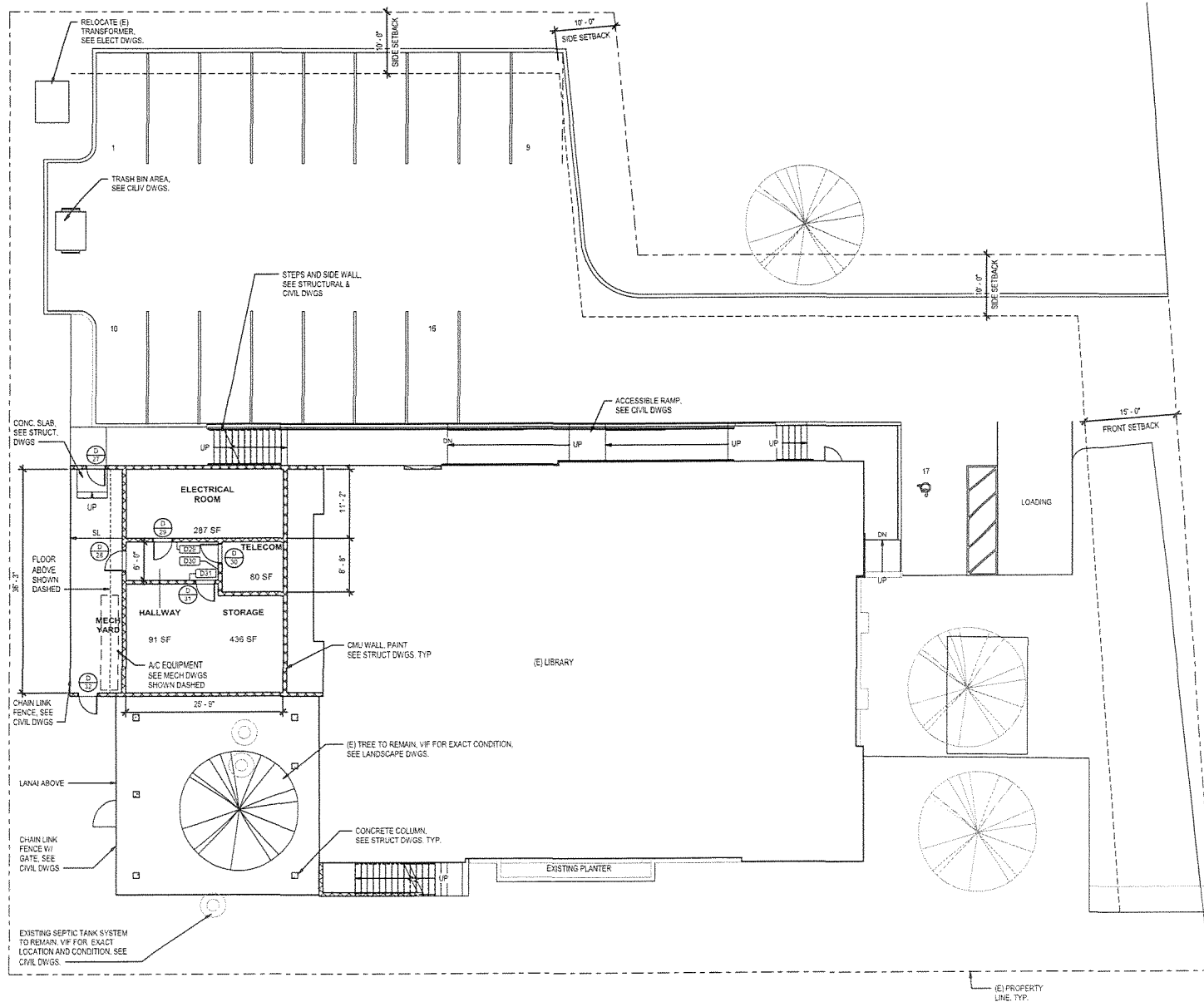
TMK: 2-4-031-059

TMK: 2-4-031-001

SITE PLAN
SCALE: 1" = 10'-0"

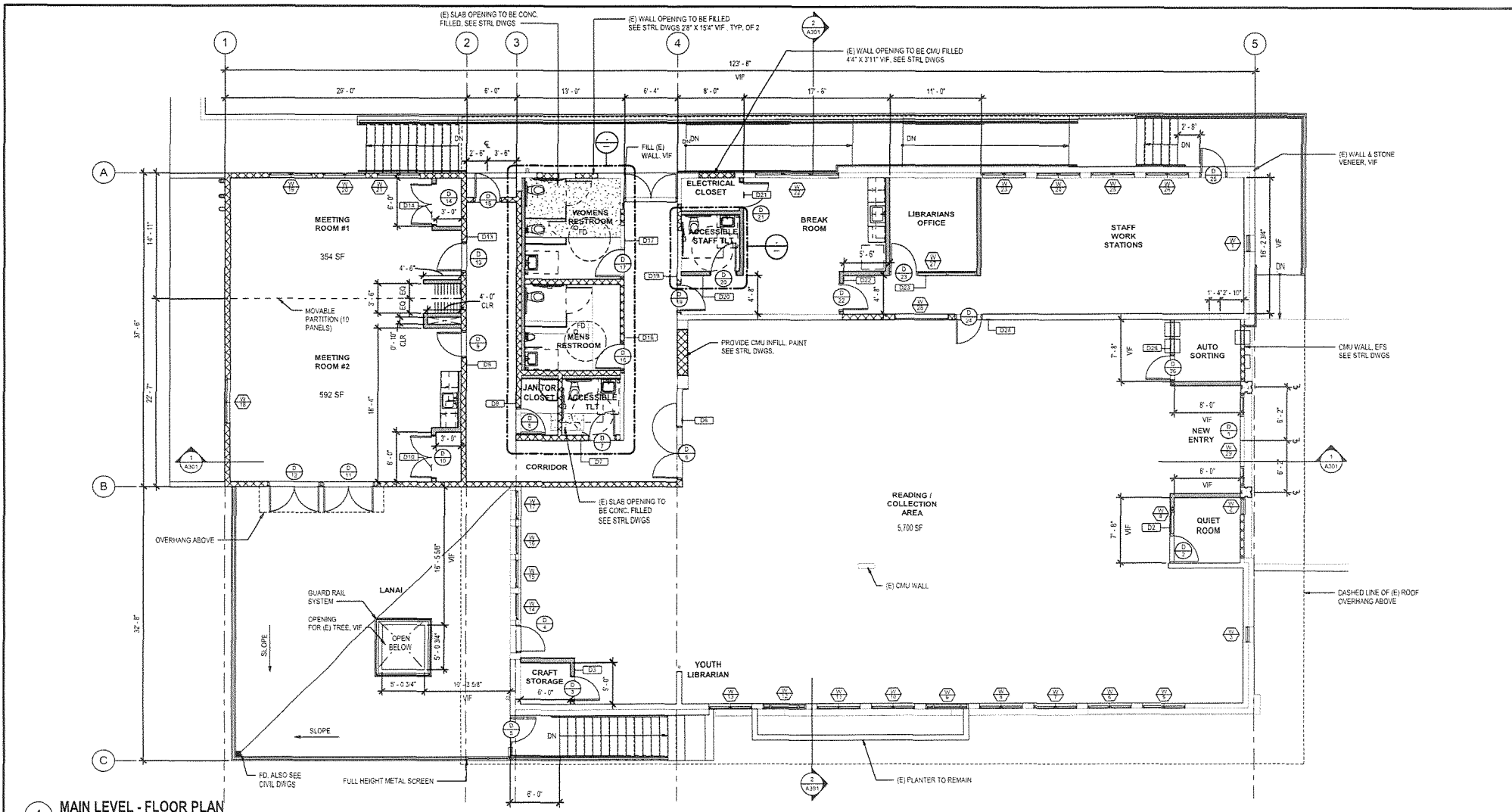


		DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES STATE OF HAWAII	
MAKAWAO PUBLIC LIBRARY IMPROVEMENTS, RENOVATION AND EXPANSION 1159 MAKAWAO AVE., MAKAWAO, HI 96768			
SITE PLAN			
HIDA OKAMOTO & ASSOC., INC. PREPARED BY: CYO CHECKED BY: CYO DATE: APRIL 30, 2024		P450 JOB NO.: 15-36-6626 DRAWING NO.: C201 DATE: APRIL 2024 SCALE: AS NOTED	



1 SITE PLAN / LOWER LEVEL FLOOR PLAN
 SCALE: 1/8" = 1'-0" (ALSO SEE CIVIL DWGS)

REV.	DATE	DESCRIPTION	BY	DATE	APPROVAL
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES STATE OF HAWAII					
MAKAWAEO PUBLIC LIBRARY IMPROVEMENTS, RENOVATION AND EXPANSION 1159 MAKAWAEO AVE, MAKAWAEO, HI 96768					
SITE PLAN					
DESIGN PARTNERS INC		PROJECT NO. 15-36-6626	DRAWING NO. A100		
DESIGNED BY: Designer	CHECKED BY: Checker	DATE: APRIL 30, 2024	DATE: APRIL 2023	SHEET 11 OF 87 SHEETS	
DRAWN BY: Author	APPROVED BY: Approver	EXPIRATION DATE OF THE LICENSE: AS NOTED			

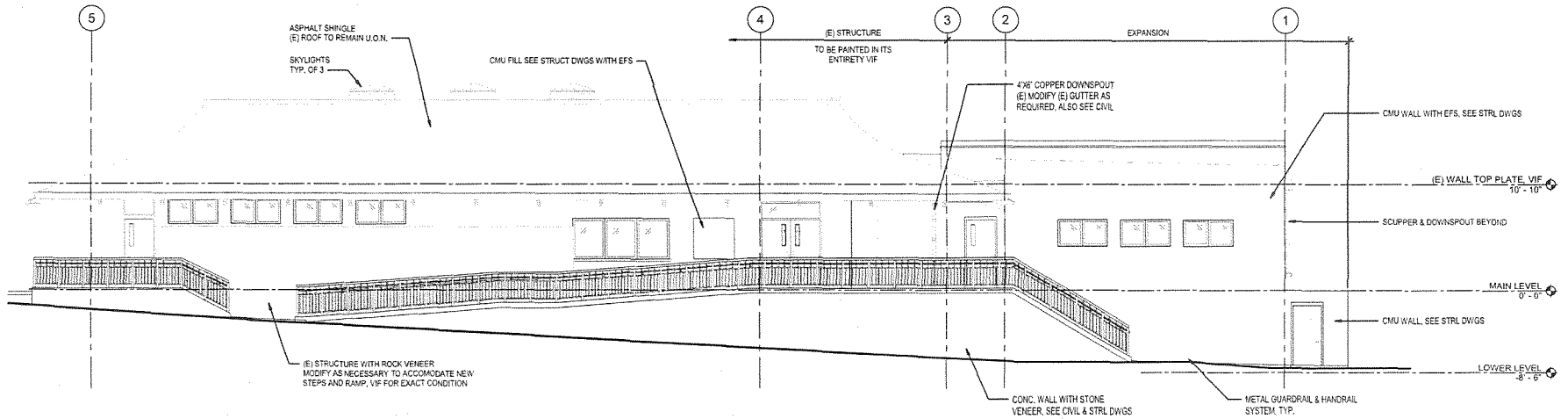


1 MAIN LEVEL - FLOOR PLAN
SCALE: 3/16" = 1'-0"

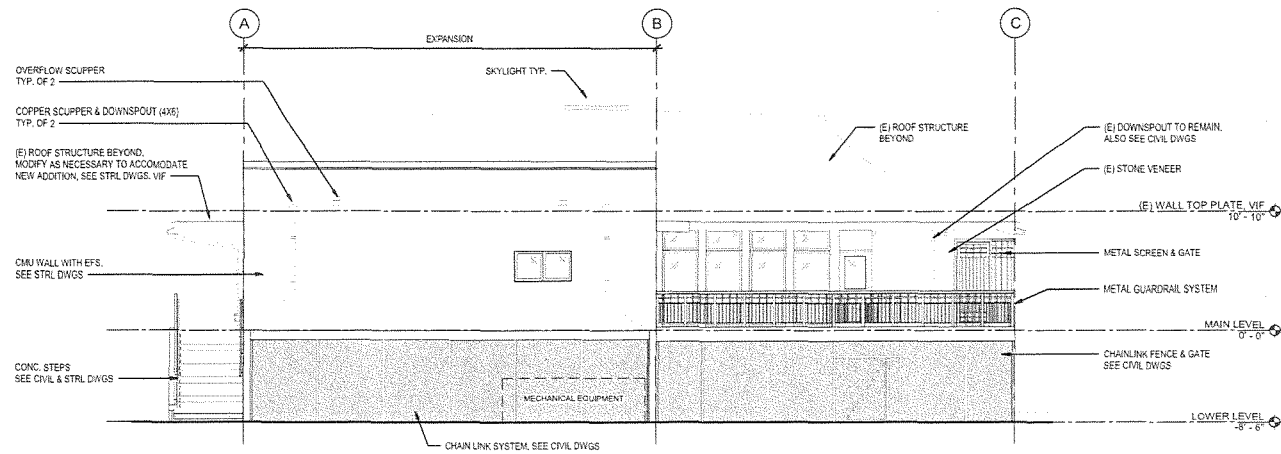
- LEGEND**
- CMU
 - GYP PARTITION
 - CONCRETE



REV. NO.	DATE	DESCRIPTION	BY	CHKD.	APPROVED BY
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES STATE OF HAWAII					
MAKAWAO PUBLIC LIBRARY IMPROVEMENTS, RENOVATION AND EXPANSION 1159 MAKAWAO AVE, MAKAWAO, HI 96768					
MAIN LEVEL - FLOOR PLAN					
DESIGNED BY Author		CHECKED BY Approver	DATE APRIL 2023	DRAWING NO. A111	
EXPIRATION DATE OF THE LICENSE AS NOTED					



1 NORTH ELEVATION
SCALE: 3/16" = 1'-0"

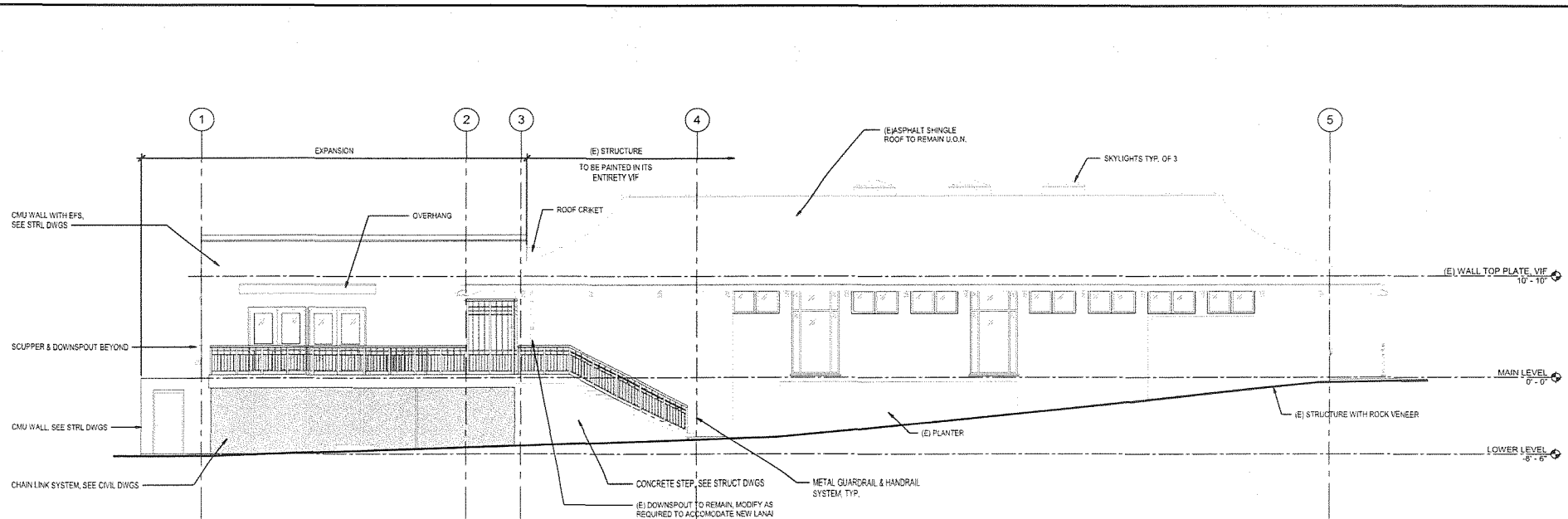


2 WEST ELEVATION
SCALE: 3/16" = 1'-0"

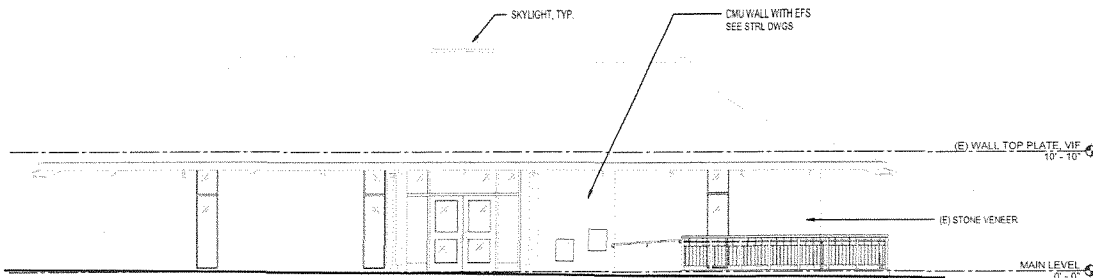
NOTE:
1. REMOVED STONE VENEER COULD BE REUSED AS STONE VENEER, CONTRACTOR'S OPTION

REV	NO.	DESCRIPTION	DATE	APPROVED BY
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES STATE OF HAWAII				
MAKAWAO PUBLIC LIBRARY IMPROVEMENTS, RENOVATION AND EXPANSION 1159 MAKAWAO AVE, MAKAWAO, HI 96768				
ELEVATIONS				
DESIGN PARTNERS INC		DATE OF REV	DRAWING NO	
RESPONSIBLE DESIGNER	CHECKED BY	15-35-5626	A201	
DESIGNED BY	APPROVED BY	DATE	JOB NO	
APRIL 30, 2024	APRIL 2023	25		
EXPIRATION DATE OF THE LICENSE	AS NOTED			

FILE NO. _____ DRAWING NO. _____

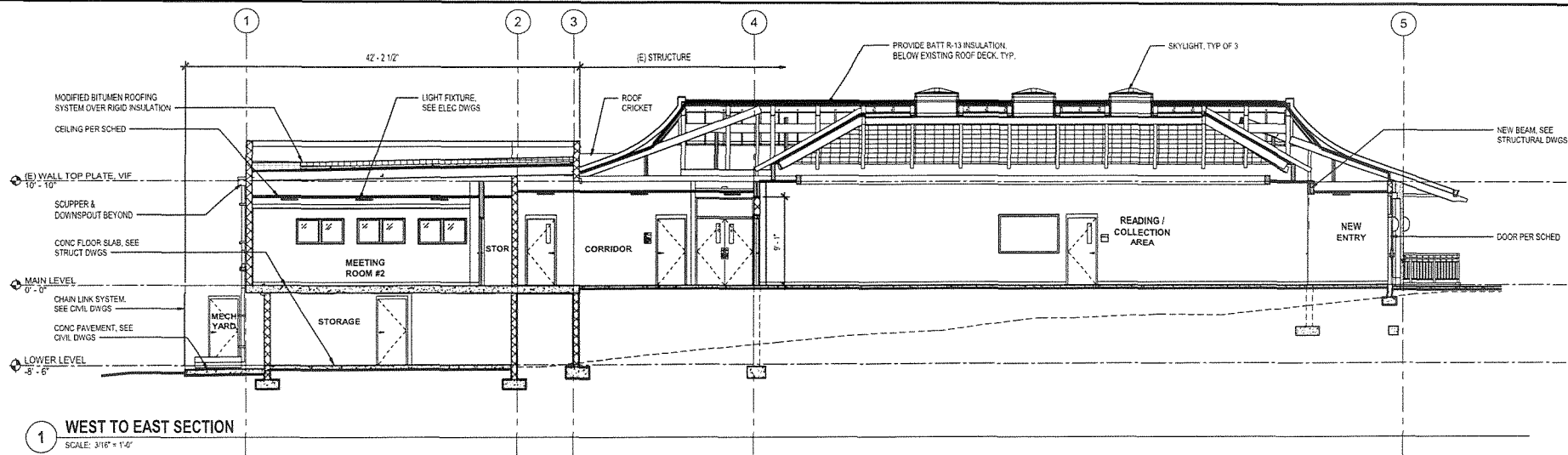


1 SOUTH ELEVATION
SCALE: 3/16" = 1'-0"

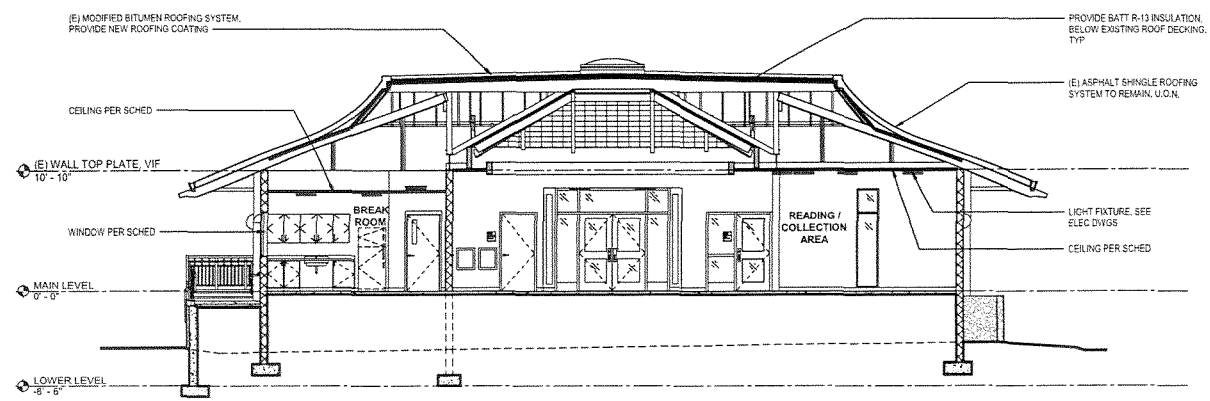


2 EAST ELEVATION
SCALE: 3/16" = 1'-0"

REV	NO	SYM	DESCRIPTION	DATE	BY	CHKD
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES STATE OF HAWAII MAKAWAO PUBLIC LIBRARY IMPROVEMENTS, RENOVATION AND EXPANSION 1159 MAKAWAO AVE, MAKAWAO, HI 96768 ELEVATIONS 2						
DESIGN PARTNERS INC			DATE: 15-36-6626	DRAWING NO: A202		
DESIGNED BY: Designer		CHECKED BY: Checker		DATE: APRIL 2023		3-SHEET
DRAWN BY: Author		APPROVED BY: Approver		DATE: APRIL 2023		21
APRIL 30, 2024 EXPIRATION DATE OF THE LICENSE AS NOTED						

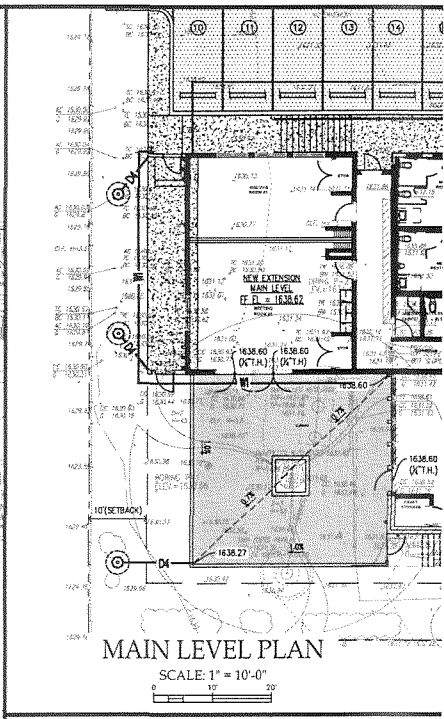
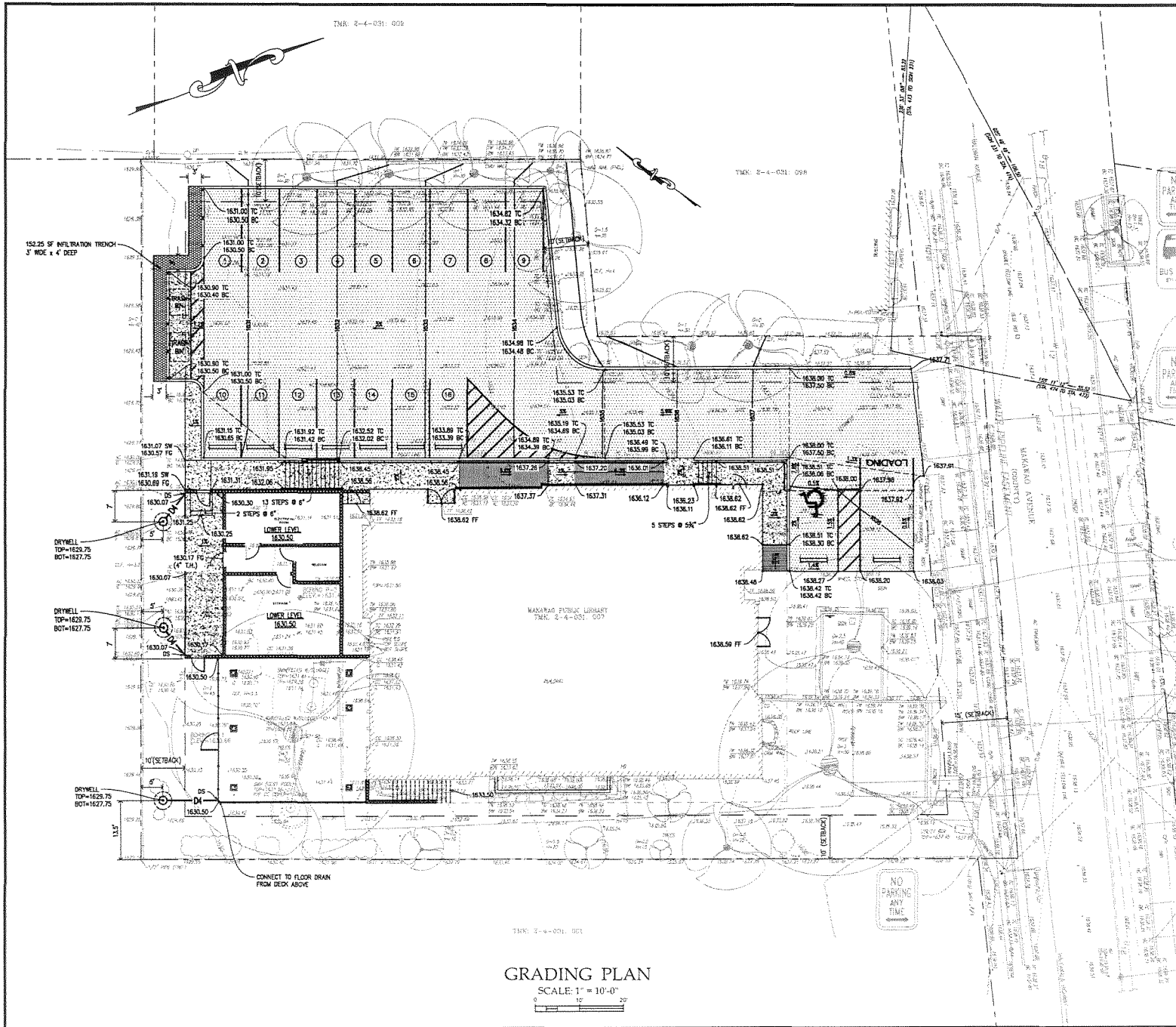


1 WEST TO EAST SECTION
SCALE: 3/16" = 1'-0"

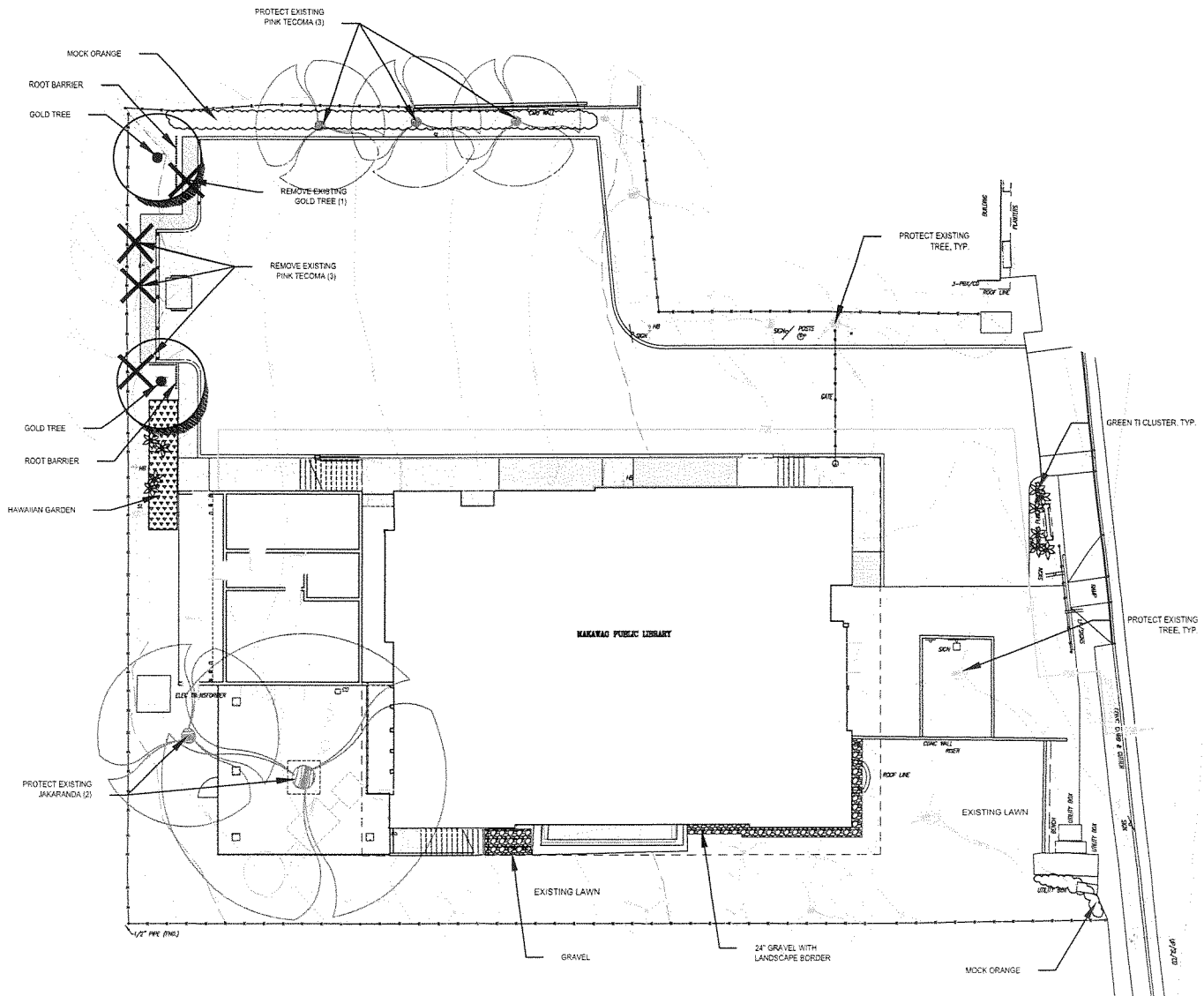


2 NORTH TO SOUTH SECTION
SCALE: 3/16" = 1'-0"

REV	DATE	DESCRIPTION	BY	CHKD	APP'D
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES STATE OF HAWAII					
MAKAWAO PUBLIC LIBRARY IMPROVEMENTS, RENOVATION AND EXPANSION 1159 MAKAWAO AVE, MAKAWAO, HI 96768					
BUILDING SECTIONS					
DESIGN PARTNERS INC		DATE: 04/30/2024	DRAWING NO: A301		
DESIGNED BY Author	CHECKED BY Checker	15-36-6625	SHEET 22		
APPROVED BY Approver	DATE APRIL 2024				
EXPIRATION DATE OF THE LICENSE					
AS NOTED					
DATE: 04/27/2024					



		DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES STATE OF HAWAII	
MAKAWAO PUBLIC LIBRARY IMPROVEMENTS, RENOVATION AND EXPANSION 1159 MAKAWAO AVE., MAKAWAO, HI 96768			
GRADING PLAN			
PREPARED BY: CYO	CHECKED BY: CYO	PROJECT NO.: 15-38-6626	DRAWING NO.: C202
APPROVED BY: CYO	APPROVED BY: ATO	DATE: APRIL 30, 2024	SHEET NO.: 6
AS NOTED			

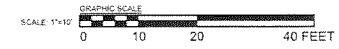


MATERIAL KEY

- GOLD TREE
- GREEN TI
- MOCK ORANGE
- LAWN
- EXISTING TREE TO BE REMOVED

MAMAKI
 PALAPALAI - *Microlepia strigosa*
 KUPUKUPU - *Nephrolepis cordifolia*
 LAUAE HAOLE - *Phlebodium aureum*
 AEAE - *Bacopa monnieri*
 ILIMA PAPA - *Sida fallax*
 AEAE - *Bacopa monnieri*

A1 LANDSCAPE SITE PLAN
 SCALE: 1"=10'



REV.	DATE	DESCRIPTION	BY	CHECKED	APPROVED BY
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES STATE OF HAWAII MAKAWAO PUBLIC LIBRARY IMPROVEMENTS, RENOVATION AND EXPANSION 1159 MAKAWAO AVE. MAKAWAO, HI 96768 LANDSCAPE SITE PLAN					
DESIGN PARTNERS INC. 15-38-6626		SHEET NO. L001			
PREPARED BY: RQ CHECKED BY: RQ DATE: APRIL 30, 2024	DRAWN BY: OD DATE: APRIL 2023	SHEET NO. 12 OF 12			
EXPIRATION DATE OF THE LICENSE: AS NOTED		DATE: APRIL 2023			

SECTION 2 DESCRIPTION OF THE AFFECTED ENVIRONMENT

A. Existing Conditions

- The Makawao Public Library was constructed in 1967-1968
- The building is over 50 years old and considered historic property
- The Library has a collection of approximately 40,000 items
- There are 6 permanent staff positions
- The Library is opened Tuesday through Saturday with varying hours
- The Library is closed on Sunday and Monday
- Patronage varies daily but averaged 153 patrons per day in 2022.
- During the pandemic (2020 – 2021) patronage ranged from 50 to 75 per day

B. Environmental Characteristics

There are no natural occurring environmental features on the building site as the ground has been extensively modified in support of existing man-made improvements dating back to construction of the Library in 1967-1968.

Topographical features and soil horizons have been modified by concrete foundations and spread footing to support the existing structure and paved surfaces for vehicle circulation and parking. The site is modestly landscaped with introduced species. There are no archaeological resources present but the structure is more than 50 years old and considered 'historic property'.

1. *Climate

The Makawao area is generally warm, humid, windy, and partly cloudy throughout most of the year. The average annual rainfall amounts is approximately 60 inches, with most of the rainfall occurring in the spring and winter months. The average temperature typically varies from 60 to 81 degrees Fahrenheit.

2. *Topography and Soils

The ground surface is covered with asphalt concrete and concrete, and generally slopes from southeast to northwest with the exception of a small portion of the site along Makawao Avenue that slopes southeast back to the street. Slopes generally range from 0% to 8% with the steepest slopes at the middle of the site going from the front to the back (southeast to northwest). Onsite elevations range from 40 to 51 feet mean sea level (MSL)

The Soil Survey Map for this section of Makawao maps one soil type --- Makawao Silty Clay, 7 to 15 percent slopes (Symbol: MfC)---over the property. This soil is characterized by slow to medium runoff and a slight to moderate erosion hazard (Soil Conservation Service, 1972).

Note: Subject headings tagged with an asterisk* are excerpted from the Project Development Report for the Project.

Mass grading associated with construction of the Library, the driveway and parking lot, infrastructure, walkways, and landscaping altered the surface layers of the soil and imported engineered fill and topsoil altered its composition.

3. Water Resources

a. Surface Water

There are no freshwater streams, rivers, ponds, or wetlands on the property.

b. Ground Water

Mink and Lau (1990) developed an aquifer classification program for the main Hawaiian Islands. They separate Maui into six aquifer sectors which are then separated by aquifer systems and aquifer types within the respective system. Based on this classification, the Makawao geographic area is in the Central aquifer sector above a section of the Makawao aquifer (See Table 1).

The Makawao aquifer is characterized by an unconfined perched aquifer above an unconfined flank aquifer. The perched aquifer comprises fresh water, currently used for drinking, replaceable, and highly vulnerable to contamination.

The flank-confined aquifer holds fresh basal water, has utility for drinking, is irreplaceable, and has a moderate vulnerability to contamination.

Table 1. Aquifer Classification System

Aquifer Code	60303214	60303111
Island Code	6 – Maui	6 - Maui
Aquifer Sector	03 – Central	03 - Central
Aquifer system	03 - Makawao	03 - Makawao
Aquifer Type, hydrogeology	2 - High Level	1 - Basal
Aquifer Condition	1 - Unconfined	1 - Unconfined
Aquifer Type, geology	4 - Perched	1 - Flank
Status Code	11121	21112
Developmental Stage	1 - Currently Used	2 - Potential Use
Utility	1 - Drinking	1 - Drinking
Salinity (in mg/L Cl ⁻)	1 – Fresh (<250)	1 – Fresh (<250)
Uniqueness	2 - Replaceable	1 - Irreplaceable
Vulnerability to Contamination	1 - High	2 - Moderate

Source: Mink and Lau, 1990.

The authors also note the “[M]minimum elevation in the System is approximately 1000 feet. Drilling of deep wells would be very expensive and operating costs expensive. Virtually no subsurface exploration has been done in the region”.

4. Flood Hazard

The Flood Hazard Assessment Report (Figure 3) places all of Makawao in Other Flood Areas Zone “D” which is defined as “Unstudied areas where flood hazards are undetermined, but flooding is possible”.

5. Biological Resources

A jacaranda tree stands in the Tree Lanai at the rear of the building and the species matches two trees at the front of the Library. A Landscaping Plan prepared in 1966 called for the planting of monkey pod and tecoma trees, gardenia, oleander, plumbago, and hibiscus shrubbery.

Animals and birds were not observed on the premises. Given the presence of neighboring residences and commercial activities more than likely domesticated and feral animals populate the neighborhood. Rodents may also be present given the presence of food (waste) and water.

6. Historical Resources

Surface archaeological features were not observed on the premises.

The Library building is 50+ years old and considered historic property.

C. Land Use Controls

State and County land use controls are cited below:

State Land Use Designation: Urban
Community Plan: Makawao-Pukalani-Kula
Land Use Map: Public-Quasi Public
Zoning: P-1 Public/Quasi-Public

State Land Use Law

Pursuant to Chapter 205 HRS, the Hawai'i Land Use Law, the State Land Use Commission classifies all land in the State of Hawai'i into one of four classifications: Urban, Agricultural, Conservation, or Rural. Uses and activities in Urban districts are regulated by the respective counties. Use of Conservation District land is under the authority of the Board of Land and Natural Resources, State of Hawaii. Uses in the Agricultural and Rural districts are regulated by the Land Use Commission and the respective counties.

- Makawao is designated Urban on land use district maps for the area.

The use of Urban designated land is under the authority of the County of Maui and its applicable plans, ordinances, and regulations.

General Plan of the County of Maui

General planning on Maui derives from three general plans adopted by the County of Maui. The overarching plan is the Countywide Policy Plan. The Plan is a series of value

statements and an umbrella document that provides direction for island plans (Countywide Policy Plan, 2010). Island plans prepared for Maui, Lanai, and Molokai articulate and refine the policies in the Policy Plan setting forth community-shared objectives and actions for the respective island. The third general plan level is community plans prepared for different regions or communities on each island. In total there are nine community plans. Each region's community plan specifies implementing actions for achieving the stated objectives. The community plans also include a land use component in the form of land use maps that allocate and designate lands within the region for specific uses.

Maui County General Plan 2030 Countywide Policy Plan

The Countywide Policy Plan includes a policy statement identifying libraries as a facility that provides learning opportunities for all Maui residents. The statement is found in Section IV, Item C Improve Education, Objective 4.

- Objective 4. Maximize community based educational opportunities. (p.52)
- Policy h. Support community facilities such as museums, libraries, nature centers, and open spaces that provide interactive-learning opportunities for all ages.

Makawao-Pukalani-Kula Plan

Nine community plan regions have been established for Maui County. Each region has a community plan with statements of objectives and policies and implementing actions consistent with the overarching general plans. Unlike the Countywide Policy Plan which is a policy plan, the community plans include land use maps that identify by geographical areas where different land uses occur and should occur.

In 1996 the MPK stated the following under Public/Quasi-Public Services and Facilities:

“Inadequacies in public and quasi-public services and facilities are cited as major community issues. The upgrading, expansion of, and addition to recreational and community facilities; educational facilities; day care services; elderly and youth facilities; communication services; and fire protection, police protection and emergency medical facilities are required to meet the growing needs of the region's residents. Additionally, the development of a satellite “city hall” is considered important in meeting the governmental service needs of the region”.

- Library use is not mentioned in the Makawao-Pukalani-Kula Community Plan.
- The land use map of the Makawao-Pukalani-Kula Community Plan designates the Library site Public/Quasi-Public (P).

This land use designation “includes schools, libraries, fire/police stations, government buildings, public utilities, hospitals, churches, cemeteries, and community centers (Ibid)”. Library use is thus allowed as a permitted use by the Community Plan.

Zoning is the County's tool for regulating land use, density (for residential, apartment, hotel districts), and prescribing development standards for the zoning district. Makawao Public Library is located in a Public/Quasi-Public zoning district and zoned P-1 (See Figure 4). This district provides for public, nonprofit or quasi-public uses. A library is not expressly identified



Makawao Public Library

LEGEND

	RESIDENTIAL		URBAN RESERVE
	BUSINESS COMMUNITY		PUBLIC/QUASI PUBLIC
	BUSINESS COUNTY TOWN		PARK
	AGRICULTURE		INTERIM

Source: County of Maui, <https://public.schneidercorp.com/Application.aspx?AppID=1029&LayerID=21000&PageTypeID=1&PageID=62458&KeyValue=24031007000>

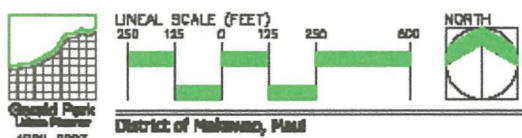


Figure 4
Zoning
Makawao Public Library
Department of Accounting and General Services, State of Hawaii

as a permitted use or facility but allowed under the general provision “Government buildings and facilities (Chapter 19.31.020 (A) (c)).”

- The Library site is zoned P-1 (Public/Quasi-Public District)

D. Facilities

1. *Water

The project site is served by an existing 1½-inch water meter which connects to a 6-inch water main within Makawao Avenue. The domestic water service main connection for the site is located at the south corner of the site.

There is an existing fire hydrant near the east corner of the site along Makawao Avenue. There are no fire hydrants, fire water connection, or double check detector assembly (DCDA) located onsite. The building does not appear to have an existing fire sprinkler system.

2. *Wastewater

Wastewater is discharged into a 1,500-gallon septic tank located northwest of the building near the west corner. The septic tank is connected to a seepage pit, southwest of the septic tank. The existing septic tank and seepage pit were constructed in 2012. The system is serviced annually by a private company.

3.* Drainage

Storm water runoff generated from the existing property sheet-flows off of the site through curb cuts and grass along the southwest property or flows into the roadway gutter, discharging into an existing catch basin northeast of the site. There is no underground drainage system nor any retention system onsite.

Runoff from the building is collected by a roof gutter system that includes a total of six downspouts that outlet to the ground, generally flowing towards the adjacent southwest property. Drainage area E-1 accounts for runoff flowing into the adjacent property and E-2 accounts for runoff discharging into an existing catch basin along Makawao Avenue.

Existing onsite runoff was estimated using the Rational Method since the project area is less than 100 acres. The existing runoff flow rates for a 50-year, 1 hour design storm, are approximately 4.61 cubic feet per second (cfs) and 0.55 cfs for drainage areas E-1 and E-2, respectively. Total existing runoff flow is 5.16 cubic feet per second (cfs).

4. *Parking

The project site has a total of 24 parking stalls onsite including two accessible stalls fronting the building. Four of the stalls are parallel parking stalls along the northeast face of the building while the 18 remaining stalls are perpendicular to the drive aisle, located in a parking area north of the building. One parking stall is largely inaccessible due to a security fence at the rear of the building. The existing drive aisle connecting the north parking area to Makawao Avenue is approximately 21-feet, adjacent to the northeast face of the building.

5. *Power and Communication

Electrical service is provided by Maui Electric Company (MECO) with underground lines. A transformer pad is located at the back of the property within the rear-setback. In 2012, approximately 88-photovoltaic panels (PV) panels were installed on the flat portion of the roof. Two overhead power poles are currently located within the property at the rear of the building. One pole has electric and telecommunications lines that feed the adjacent residential property directly behind the library, and a second pole with telecommunication lines at the north side of the property that serves other properties towards Baldwin Avenue

SECTION 3 SUMMARY OF POTENTIAL ENVIRONMENTAL IMPACTS AND MEASURES TO MITIGATE ADVERSE EFFECTS

A. Assessment Process

The scope of the project was discussed with the Project Manager for the Department of Accounting and General Services and the consultants comprising the design team. State and County agencies were contacted for information relative to their jurisdiction and expertise. Field conditions were gleaned from reports prepared by others. From the discussions and field investigations, existing conditions and features that could be affected by or affect the project were identified. These influencing conditions are:

- Makawao Public Library has been at this location since 1969;
- The Library is slightly more than 50 years old and considered historic property;
- There are no archaeological resources on the property;
- There are no rare, threatened, or endangered flora and fauna on the property;
- There are no surface water bodies on the property;
- Existing public infrastructure and utilities are available;
- Construction is projected to commence in January 2025 with completion sometime in 2026;
- The Library will be closed for the duration of construction.

B. Short-term Impacts

1. Erosion Control and Storm Water Management

Site work will be limited to the 26,700 square foot project site. Limited grubbing and grading is proposed around the building with major grading work associated with reconfiguring the parking lot. Approximately 14,500 square feet will be grubbed and graded and earthwork quantities are estimated at 250 CY of excavation and 50 CY of embankment. Screens or plywood fencing will be erected around the site for dust control, noise attenuation, and overall safety for adjoining uses and the general public.

Exposed areas will be subject to erosion by wind and water. Fugitive dust can be controlled by frequent water sprinkling and storm water impacts can be mitigated by adhering to Best Management Practices (BMPs) specified in Chapter 20.08 of the Maui County Code for Soil Erosion and Sediment Control and Chapter 111 Rules for Storm Water Treatment Best Management Practices of the Department of Public Works. Mitigating measures would include stabilized construction ingress/egress, drain inlet protection, and silt fences / filter socks to minimize environmental impacts. BMPs will be submitted for review and approval by the Department of Public Works, County of Maui.

In addition to mitigating construction impacts, post construction measures are required for long-term water quality management. Appropriate measures are identified in Section 16.26B.3900 Maui County Code Post-construction Stormwater Quality Best Management Practices and mandates compliance as part of the building code.

The proposed improvements are less than one (1) acre thus a NPDES General Permit Authorizing Discharges of Storm Water Associated with Construction Activity will not be required from the State Department of Health.

2. Air Quality

Construction will temporarily affect air quality and the acoustical environment. Demolition, grubbing, grading, stockpiling, backfilling and other soil (or earth) moving activities will raise fugitive dust that can settle in adjoining areas. Windy conditions coupled with exposed soil can create severe dust problems. The general contractor will employ dust control measures to prevent the work site and construction equipment and activities from becoming significant dust generators. Control measures shall comply with Chapter 60.1, Air Pollution Control, Title 11, Department of Health, State of Hawaii (and revisions thereto). The site work contractor may implement alternative methods adaptable to the scope of the improvements and features of the site.

Most construction equipment and vehicles are diesel powered and emit exhaust emissions typically high in nitrogen dioxide and low in carbon monoxide. The Federal and State nitrogen dioxide standard ---100mg/m³ per annum---which is an annual standard, is not likely to be exceeded during construction. Carbon dioxide emissions should be less than that generated by automobile traffic on adjoining streets. Aldehyde odors from diesel equipment may be detected but should be dispersed by the prevailing winds.

3. Noise

Construction noise, like fugitive dust, cannot be avoided and will be audible over the entire construction period. Exposure to noise will vary by construction phase, the duration of each phase, and the type of equipment used during the different phases. Maximum sound levels in the range of 82-96 db(A) measured at 50 feet from the source will be generated by heavy machinery during site work. After site work is completed, reductions in sound levels, frequency, and duration can be expected as the foundation is formed, concrete footings and the ground floor poured, and the addition erected. Exterior walls should also mitigate noise from interior construction activities.

Community Noise Control regulations establish maximum permissible sound levels for construction activities occurring within "acoustical" zoning districts. The Library site is zoned P-1 Public-Quasi Public and considered to be located in the Class A zoning district for noise control purposes. The maximum permissible daytime sound level in the district attributable to stationary noise sources and equipment related to construction activities is 55 dBA during daytime (7:00 AM to 10:00 PM) and 45 dBA during nighttime (10:00 PM to 7:00 AM) (Chapter 46, Community Noise Control, 1996). As disclosed above, construction noise occasionally will exceed the 55 dBA threshold. All construction activities will comply with Chapter 46 Community Noise Control, Title 11, Administrative Rules, Department of Health, State of Hawai'i.

In general, construction activities cannot exceed the permissible noise levels for more than ten percent of the time within any twenty-minute period except by permit or variance. Any noise source that emits noise levels in excess of the maximum permissible sound levels cannot be operated without first obtaining a noise permit from the State Department of Health. Although the permit does not attenuate noise per se it regulates the hours during which excessive noise is allowed. The general contractor will obtain and comply with

conditions attached to the permit. Work will be scheduled between the hours of 7:00 AM to 3:30 PM Mondays through Fridays. The contractor will also ensure that construction equipment with motors is equipped with mufflers in proper operating condition.

4. Flora

Rare, threatened, or endangered flora or candidates for that status are not found on the property.

5. Historic Features

Should excavation unearth undocumented archaeological features, artifacts, or cultural deposits, work in the immediate area will cease and the proper authorities notified for disposition of the finds. If *iwi kupuna* are uncovered and appear to be less than 50 years old, the Honolulu Police Department will be notified. If the burials appear to be more than 50 years old, then the State Historic Preservation Officer will be notified. As a matter of protocol, both agencies will be notified for inspection and proper disposition of the finds.

Work may be put on hold until such time that the respective authorities allow for the resumption of construction.

6. Traffic

Construction vehicles hauling workers and material will contribute to traffic on Makawao Avenue. The existing driveway will provide the only vehicle access to the building site. To minimize impacts on local and on-campus traffic circulation, material deliveries will be scheduled for off-peak traffic hours and off-loaded at the job site.

The contractor will be responsible for traffic control. Measures for minimizing traffic impacts during construction include but are not limited to:

- Posting notices alerting drivers of scheduled work on and around the driveway;
- Positioning traffic cones or other directional devices to guide vehicles around work areas in Makawao Avenue;
- Covering open trenches at the end of the work day;
- Posting flagmen for traffic control.

7. Library Use

The Library will be closed during construction. Over the projected construction period, closure will preclude patrons from:

- Access to books, magazines, and alternative media (DVD, CDs, audio tapes)
- Research material
- Equipment use (computers, copiers, WiFi)
- Public services available at the Library
- Outreach activities such as family programs, storytelling for children, culture and entertainment with guest speakers, and computer classes will not take place.

These impacts cannot be avoided. The nearest public libraries are in Wailuku and Kahului. Both Libraries are the nearest option but users will have to travel a considerable distance and on days and times when both libraries are open.

As stated in Section 1 of this environmental assessment, a bookmobile may meet the needs of some patrons but the vehicle cannot be posted for long periods in Makawao because of commitments to other Maui communities. A second mitigating measure is to find a site where a temporary library can be located. A site has not yet been found.

C. Long-term Impacts

Anticipated long-term impacts resulting from the project include but are not limited to:

- Providing meeting rooms for community use.
- Fulfilling a public need for additional floor space, expanded collection, modern equipment and facilities dedicated for staff use and with new separate equipment and furnishings for public access/use.
- Ambient air quality should not be adversely affected in the long-term. A library is not a stationary source or generator of air pollution.
- Libraries are not significant noise generators. For this project noise should not be an issue given the use to occupy the building.
- Adverse effects on water and wastewater systems are not anticipated. Water use is projected at approximately 12 gallons per person / day and will vary by patrons /day. The wastewater system can accommodate 225 users per day.
- Water use will be reduced by using low-gallon flush water closets and automatic fixture cut-off capability.
- Post-development storm water runoff quantity will increase slightly due to the increase in impervious surfaces. The increase cannot be avoided. Surface and roof runoff will be collected and retained by on-site drywells and an infiltration trench.
- Electrical consumption is not anticipated to increase significantly. To help offset the increase the building is designed with insulated materials for walls, energy efficient fixtures, and low-E glazed glass.
- Energy costs cost will increase but can be mitigated by natural lighting and using energy efficient light fixtures/luminaries.
- The addition will not result in adverse visual impacts. The addition is lower in height than the existing Library roof and has been designed to blend with the roof and building. And with its location at the rear of the Library, it should not be readily visible from Makawao Avenue.
- A color palette for the addition has not yet been selected. It is anticipated that the color scheme will match the existing building color.
- Library use will not affect land use controls for the property. County zoning regulations allow public uses and structures as permitted uses in the Public / Quasi Public district. Libraries are defined as a "public use".
- The addition will not alter the character of the site, surrounding areas, zoning of adjacent properties, and the uses and zoning of the property.
- The building and building systems will deteriorate gradually over time.
- Regular scheduled maintenance and periodic repairs will sustain the useful life of the building, its components, equipment, and operating systems.
- Repair, renovation, and replacement of building elements and systems can be expected over the building life cycle.
- Long-term costs for maintaining the building will be funded by State of Hawai'i appropriations to the Department of Accounting and General Services.
- The structure will be equipped with exterior lights for safety and security. It is recognized that new or artificial light at night can increase the night sky brightness and

interfere with and adversely affect astronomical observations performed by several telescopes located on Haleakalā. Measures for mitigating potential project related impacts on astronomical observations include adhering to the County of Maui Lighting ordinance for exterior light, shielding exterior light fixtures to emit zero light above the horizontal plane, and equipping motion sensing exterior fixtures with LED luminaires for its lighting capabilities and energy conservation. Additional steps to reduce the impact on the observatories include the use of either filtered LED lights or amber LED lights for exterior lighting and otherwise selecting blue-deficient exterior lighting.

SECTION 4 ALTERNATIVES TO THE PROPOSED ACTION

A. No Action / Delay the Action

A No Action / Delay the Action alternative will maintain the status quo of the physical environment and preclude the occurrence of all impacts, short and long term, beneficial and adverse disclosed in this Assessment. A No Action alternative will not achieve the stated objectives of the project. Delaying the Action would suspend the project until such time that it can be constructed.

SECTION 5
AGENCIES AND ORGANIZATIONS TO BE CONSULTED
IN THE ENVIRONMENTAL ASSESSMENT PROCESS

State of Hawai'i

Department of Land and Natural Resources
Historic Preservation Division
Department of Health
Clean Air Branch
University of Hawai'i at Mānoa Institute for Astronomy

County of Maui

Department of Environmental Management
Department of Public Works
Department of Water Supply
Planning Department
Fire and Public Safety
Police Department

Other

Maui Electric Company
Makawao Public Library (Placement)

SECTION 6 PERMITS AND APPROVALS

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

State of Hawai'i

Department of Health

Disability and Communication Access Board (Facility Access Review)
Variance from Pollution Controls (Noise Permit)

Department of Land and Natural Resources, Historic Sites Division

Historic Site Review (Chapter 6E)

County of Maui

Department of Water Supply

Temporary Water Permit (To Be Determined)

Department of Public Works (Issued by Development Services Administration)

Building Permit
Certificate of Occupancy
Electrical Permit
Plumbing Permit
General Permit for Stormwater Quality Best Management Practice
and Maintenance of Facilities
Stormwater Runoff Control Practices and Maintenance Plan
Work Upon County Highway

Maui Fire Prevention Bureau

Fire Protection Permit

SECTION 7 DETERMINATION OF SIGNIFICANCE

Hawai'i Administrative Rules, Title 11, Department of Health, Chapter 200.1 (Environmental Impact Statement Rules) establishes criteria for determining whether an action may have significant effects on the environment (§11-200.1-13). The relationship of the proposed project to these criteria is discussed or summarized below.

- 1) Irrevocably commit a natural, cultural, or historic resource;

There are no known natural or cultural resources on or associated with the property. The Library Building is more than 50 years old and considered historic property.

- 2) Curtail the range of beneficial uses of the environment;

The proposed action will not curtail the beneficial uses of the environment. The Library has been the most suitable use for the site since its construction in 1967-1968. The existing environment has already been improved by construction of the Library per se, walkways, landscaping, and paved surfaces. The approximately 1,000 square feet committed to the project would provide facilities for back-of-house operations on the ground floor and additional interior space on the main level.

- 3) Conflict with the State's environmental policies or long-term environmental goals established by law;

The project will not conflict with the State's environmental policies or long-term environmental goals.

- 4) Have a substantial adverse effect on the economic welfare, social welfare, or cultural practices of the community and State;

Long-term substantial adverse effects on the economic welfare, social welfare, or cultural practices of the community and State are not anticipated.

In the short-term, however, closure of the Library during construction may adversely affect patrons who would be unable to continue a regular activity or use the services and equipment available at the library. A bookmobile may provide reading materials but it cannot stay at one location for an extended period of time.

The Kahului and Wailuku Public Libraries provide the same services and facilities as the Makawao Public Library. Upcountry residents can visit either library but have to cope with distance and travel consequences.

- 5) Have a substantial adverse effect on public health;

Public health will not be adversely affected.

- 6) Involve adverse secondary impacts, such as population changes or effects on public facilities;

Adverse secondary impacts are not anticipated.

- 7) Involve a substantial degradation of environmental quality;

Substantial degradation of environmental quality is not anticipated. Environmental quality in the area of the building site will be affected temporarily by construction activities. Measures for mitigating effects on air quality, noise, and erosion are disclosed in this environmental assessment. The contractor can also implement other control measures that would minimize disturbances to adjoining businesses and residences.

- 8) Be individually limited but cumulatively have substantial adverse effect upon the environment or involves a commitment for larger actions;

The project will not have substantial adverse environmental effects or a commitment for larger actions.

- 9) Have a substantial adverse effect on a rare, threatened or endangered species, or its habitat;

Rare, threatened, or endangered species and habitat were not observed on-site.

- 10) Have a substantial adverse effect on air or water quality or ambient noise levels;

Substantial effects on air quality, ambient noise levels, and water quality are not anticipated. Short-term construction activities will raise fugitive dust, increase ambient noise levels, and generate runoff. Acceptable measures for mitigating dust, noise, and construction runoff are disclosed in this assessment. The contractor can implement other measures as his/her discretion. In the long-term the building is not anticipated to affect the environmental characteristics in this criterion.

- 11) Have a substantial adverse effect on or be likely to suffer damage by being located in an environmentally sensitive area such as a flood plain, tsunami zone, sea level rise exposure area, beach, erosion-prone area, geologically hazardous land, estuary, fresh water, or coastal waters;

Makawao Public Library is not located in an environmentally sensitive area. The Flood Hazard Assessment Report places all of Makawao in Other Flood Areas Zone "D" which is defined as "Unstudied areas where flood hazards are undetermined, but flooding is possible".

- 12) Have a substantial adverse effect on scenic vistas and view planes, day or night, identified in county or state plans or studies, or,

The proposed action will not affect scenicvistas or view planes.

- 13) Require substantial energy consumption or emit substantial greenhouse gases.

The new structure will increase energy use. Design measures for reducing energy use and creating renewable energy are disclosed in the Description of the Proposed Action.

REFERENCES

- Department of Geography, University of Hawai'i at Hilo. 1998. *Atlas of Hawai'i Third Edition*. University of Hawai'i Press. Honolulu.
- Department of Land and Natural Resources, State of Hawaii. September 2004. Flood Hazard Assessment Report. Community Panel No. 15003C0140F
- Design Partners Inc. 2023. Construction Plans and Drawings.
- Fung and Associates. . Makawao Public Library Planning for Expansion and Land Acquisition, Project Development Report.
- Maui County Council. July 1996. *Community Plan Update*. Makawao-Pukalani-Kula Community Plan.
- Maui County General Plan 2030 Countywide Policy Plan. Ordinance No. 3732, Effective March 2010.
- Mink, John F. and L. Stephen Lau. February 1990. *Aquifer Identification and Classification for Maui: Groundwater Protection Strategy for Hawai'i*. Water Resources Research Center, University of Hawaii at Manoa. Technical Report No. 185.
- Pukui, Mary K, Samuel H. Ebert, and Esther T. Mookini. 1974. *Place Names of Hawaii*. University of Hawaii Press.
- U.S. Department of Agriculture, Soil Conservation Service. August 1972. *Soil Survey Report for Islands of Kaua'i, O'ahu, Maui, Moloka'i, and Lāna'i, State of Hawai'i*. In Cooperation with the University of Hawai'i Agricultural Experiment Station.