Kahului Public Library Study

This project was funded through an appropriation by the Hawaii State Legislature in Act 6, Session Laws of Hawaii 2020, for transit-oriented development planning.

This document was prepared by hi.arch.y llp for the Department of Accounting and General Services under DAGS Job No. 15-36-6615, and for the Hawaii State Public Library System, and through funds from the State Office of Planning and Sustainable Development.

April 21, 2023

Project Team







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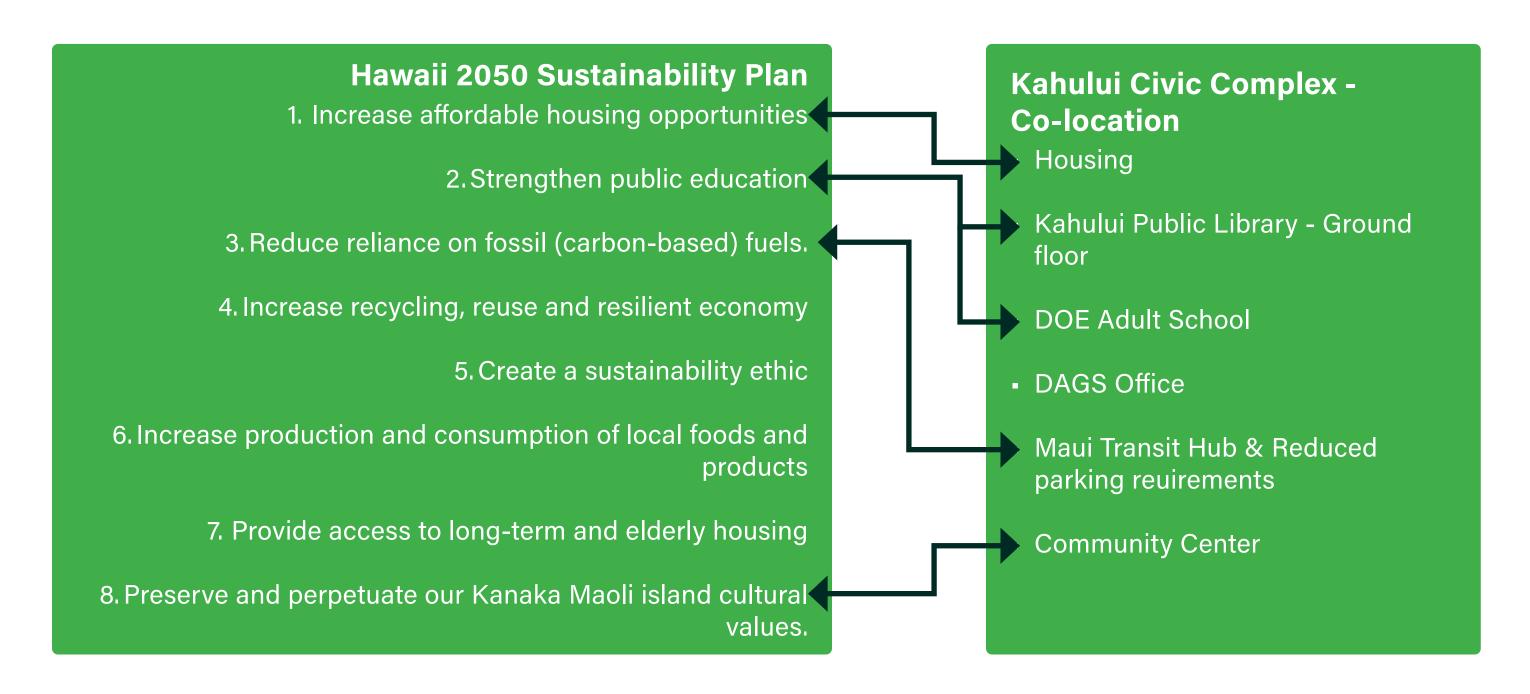


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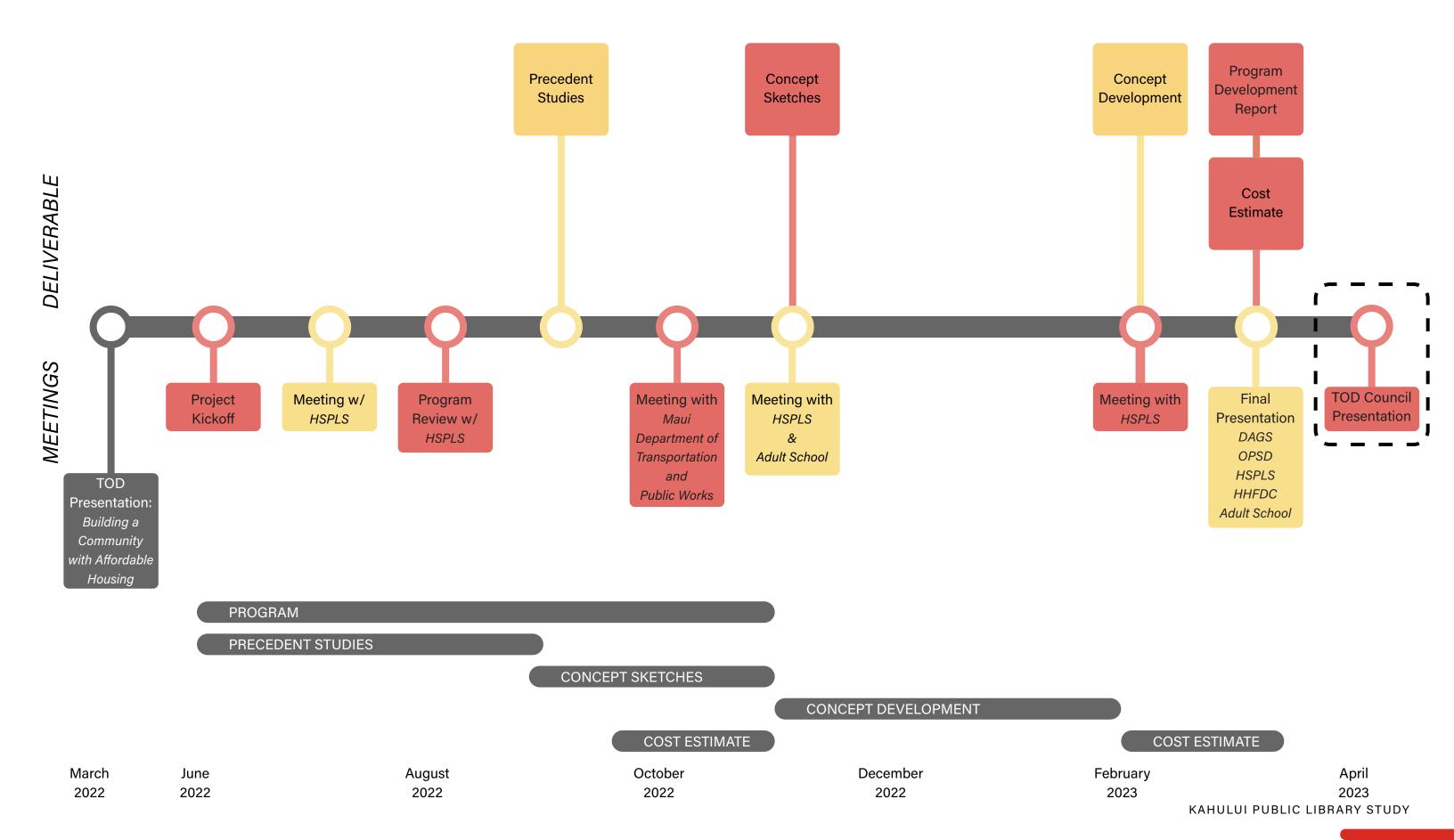
This project was undertaken with the guidance and insights of: State of Hawaii Department of Accounting and General Services State of Hawaii Office of Planning and Sustainable Development Hawaii State Public Library Systems

Earth Day - Going Green

- Public transportation use saves the U.S. 4.2 billions gallons of gasoline annually
- Eliminating one car and taking public transportation insdead of driving, a saving of 30% of carbon dioxide emissions can be realized.



Project Timeline



Precedents and Case Studies Co-Located Libraries















FLEXIBLE SPACE

- Allow library staff to provide various programs to the community
- Fluid access to electricity

GROUND FLOOR ACTIVATION

- Immediate line-of-sight to the library functions
- Foot traffic keeps the library active

COMMUNITY RESOURCE

- Community asset (Community Room)
- Library provides essential services (civic and health services)













Selection of the precedent studies were chosen based on libraries that are co-located with other essential services. (e.g. Civic, Residential, Educational, Health, Commercial)

Library Vision & Goals

If located within a project as proposed in this study, the library would be successful if

"there is increase in visibility, access to parking, and access to transportation"

Our biggest concerns about the possibility of the library being located within such a development is...

"conflicting uses outside library hours, barriers to parking, communication with all agency, not being on the first floor"

Stacey, Mallory, and Stacie (July 2022

Our biggest challenges in our current building are

"flexible and fluid electricity, security location, entrance-parking connection"

Stacey, Mallory, and Stacie (July 2022)

The things the community needs the most from its library are...

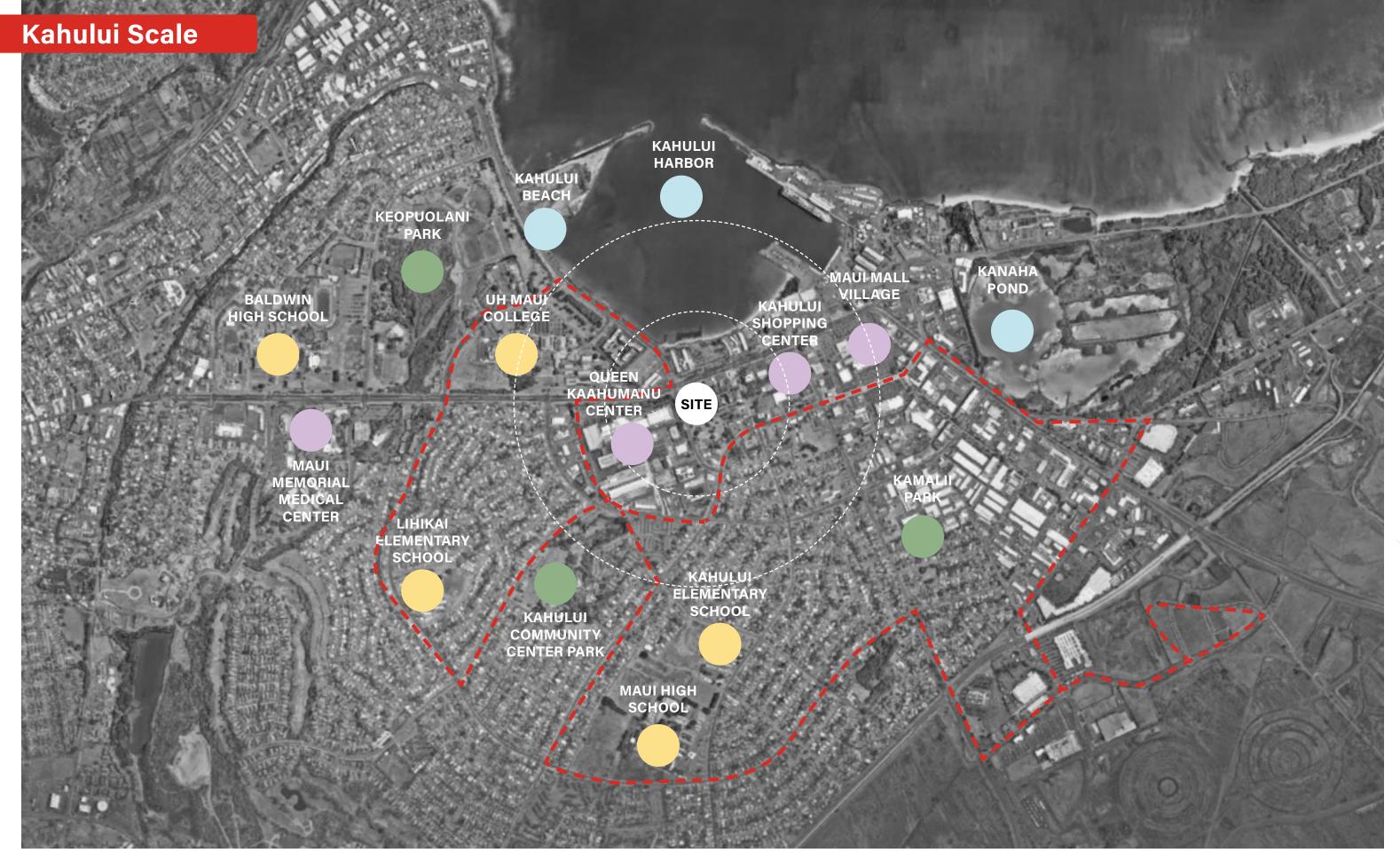
"access to collections, resources, and materials, high-speed internet, community meeting space"

Stacey Mallory and Stacie (July 2022)

Our greatest hope for the library is...

"it becomes a dynamic and well-used meeting hub, that meets the needs of the community"

Stacey, Mallory, and Stacie (July 2022)





Concept Sketches



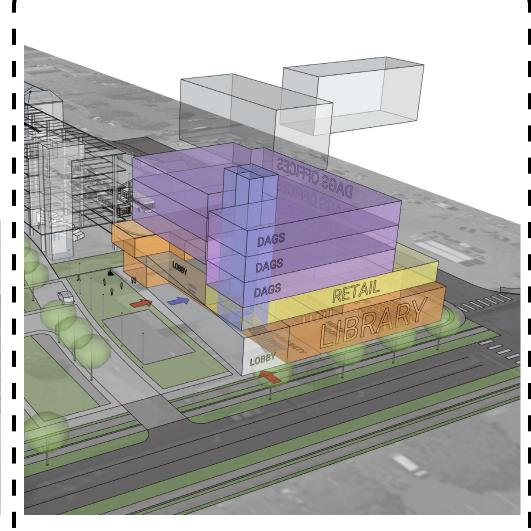
Concept 1: Developed EA

Concept one closely reflects the Final Environmental Assessment conceptual plan. Ground floor library at 16,500 sf with the remaining program above.

Library: 16,500 SF Multi-Level Incremental Upgrade

Civic Center Building: 66,000 SF

Key Features: 2-3 storey parking facilites, seperate housing



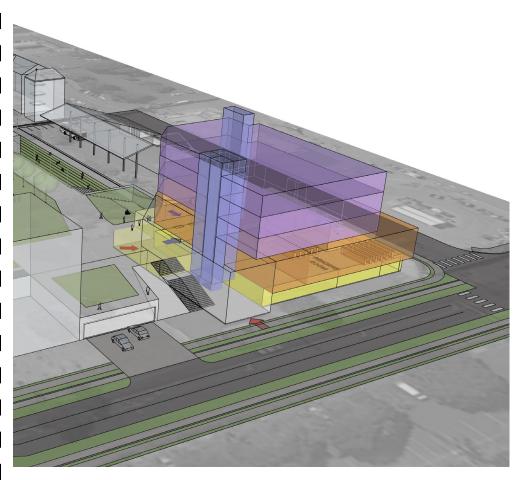
I Concept 2: Inner Street

Concept 2 reimagines an activated mid-block street dedicated to enhanced open spaces. The civic center parking structure is also reanalyzed to create a better connection to the transit hub. The library is located on the ground floor.

Library: 19,000 SF Ground Floor Recommended Program

Civic Center Building: 67,750 SF

Key Features: Kaahumanu vehicular access, large open plaza



Concept 3: Platform

Concept 3 illustrates an emphasis on the integration of the civic, housing, and parking components into one seamless development. The library is on the second floor with lots of public amenities.

Library: 19,000 SF Second Floor Recommended Program

Civic Center Building: 67,750 SF

Key Features: Shared-use parking, large elevated public space

Concept Recap - Nov 2022

Library-Recommended Program

19,000 SF Ground Floor 300 DU

Residential Parking included

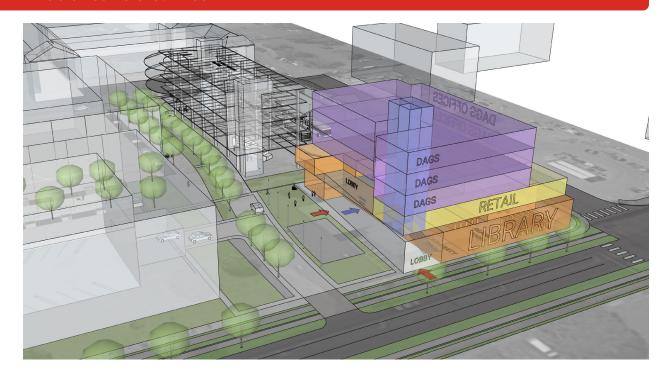
Civic Center Building: 67,650 SF

Adult School+Retail - 2nd Floor DAGS office - 3rd-5th Floor Civic Center Parking:

Parking Structure (w/Helix Ramp)

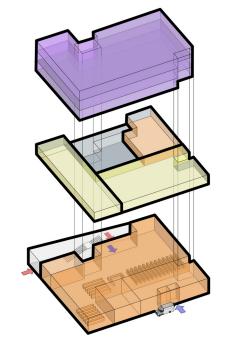
176 Stalls Provided

Housing:



3D VIEW







CONCEPTUAL SITE PLAN

- Pedestrian Pathway
- 2 Ka'ahumanu Ave access
- 3 Woonerf/Living Street
- 4 Parking Structure

- 5 Maui Transit Hub
- 6 Delivery/Drop-off Parking (HSPLS)
- Public Lobby/Entrance
- 8 Vehicular Entrance for Civic Center

Project Overview & Takeaways

Site & Program

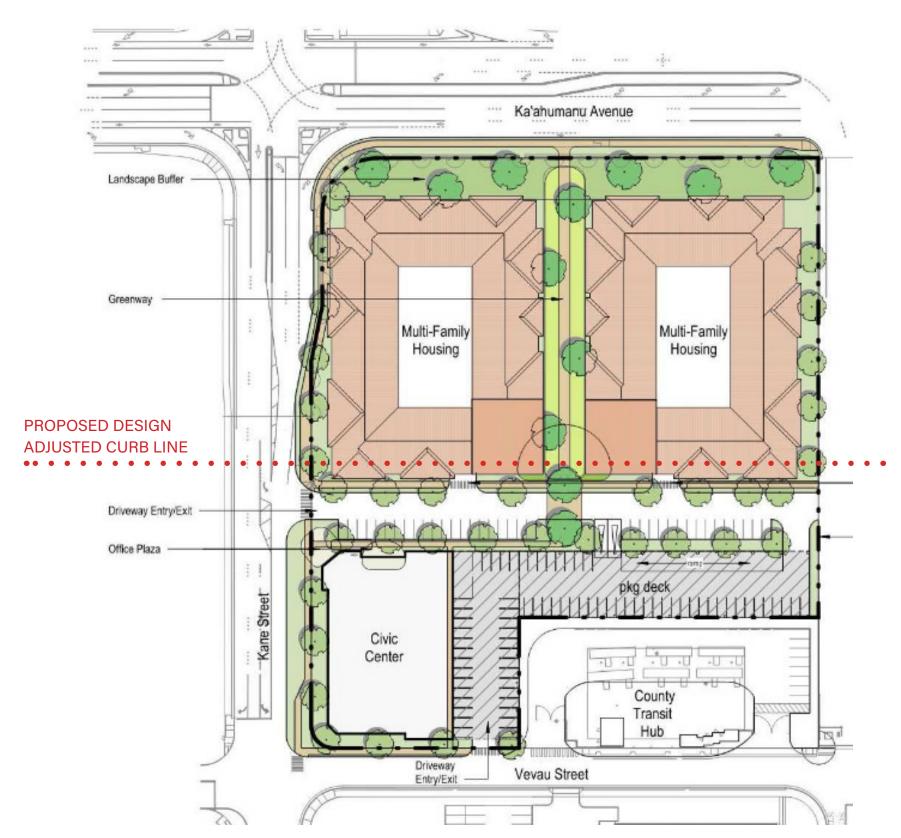
- Planning study to see how the library would fit into the proposed Civic Center
- Provide a direct pedestrian connection from the Transit Hub to the Civic Center
- Optimize public amenities and open space (civic plaza, extension of community room, open events under parking)
- Parking Structure location, circulation, program, connection to Civic Center
- Reduce parking requirement (TOD Transit Hub proximity)

Library Objectives

- Increase the existing Library Program to provide additional services (19,000 SF)
- Library to operate on one floor
- Library to occupy ground floor
- Provide a vibrant Community Space
- Visibility on Kane Street Street Activation
- Civic Plaza Indoor/Outdoor integration
- Pedestrian circulation and safety priority

Design Adjustments from FEA

- Moved driveway entry/exit north by 25 feet to proposed curbline
- Increase building footprint due to increase in the Library programmed to 19,000 SF.
- Revised parking structure to allow better pedestrian access from the Transit Hub
- Create ground level open space under the parking structure
- Secondary vehicular access either through Kaahumanu Ave or through the Transit Hub on Vevau St.
- Larger open public plaza space
- Include a community space

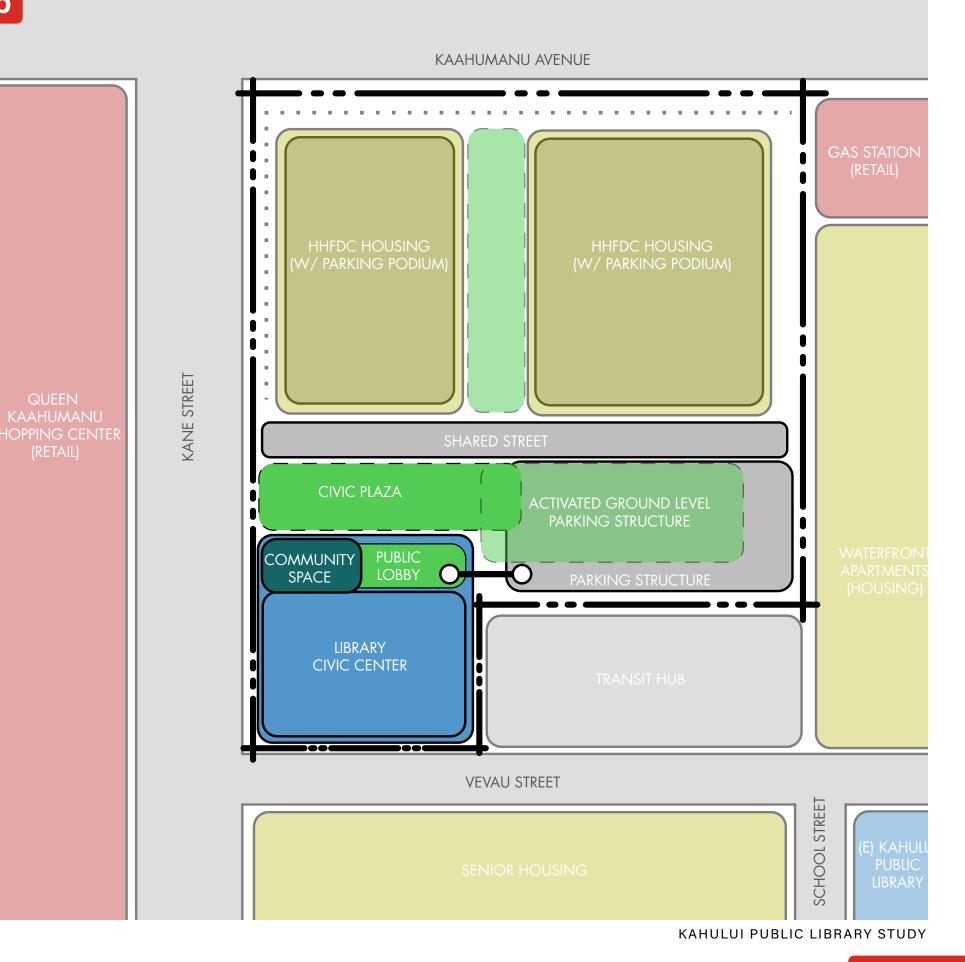


Final Environmental Assessment conceptual site plan

Site Engagement - Functional Relationship

Provide public amenities for the community connecting to the immediate neighborhood

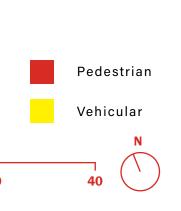
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- Include a community space

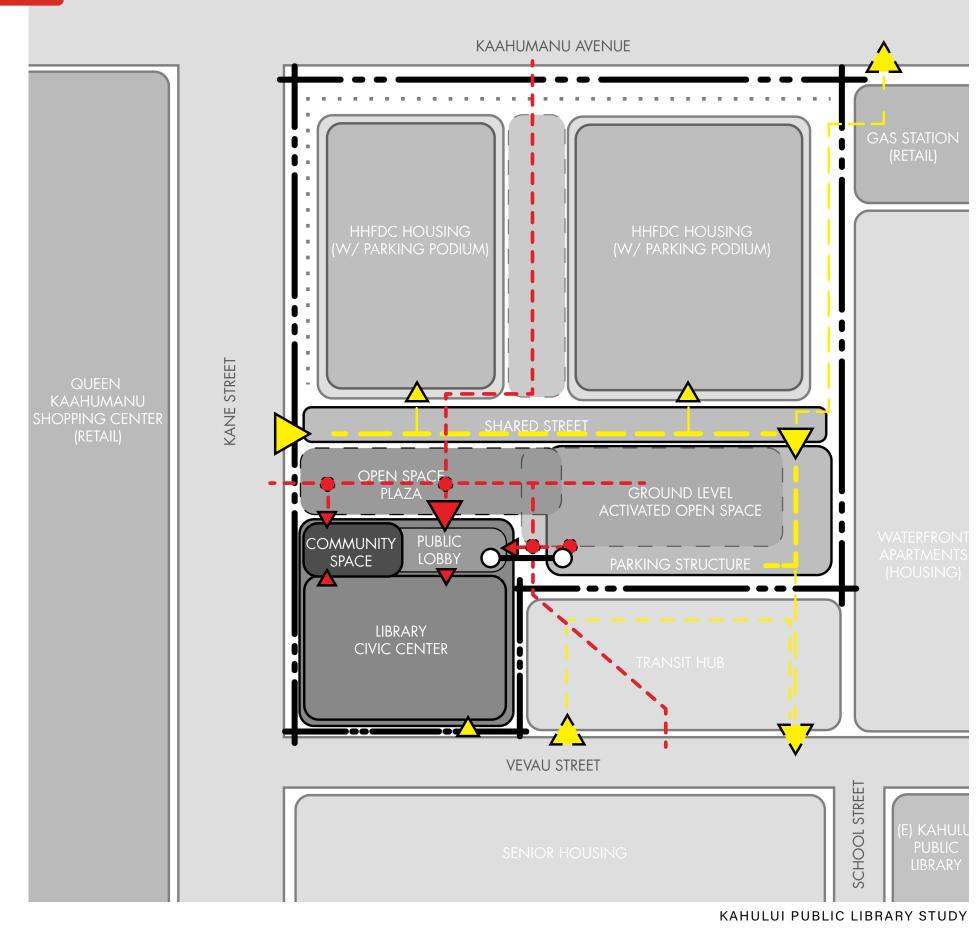


Site Engagement - Pedestrian & Vehicular

Reduce and limit the amount of pedestrian and vehicular intersections

- Revised parking structure to allow better pedestrian access from the Transit Hub
- Provide a second floor bridge to the Civic Center for employees and patrons.
- Secondary vehicular access either through Kaahumanu Ave or through the Transit Hub on Vevau St.





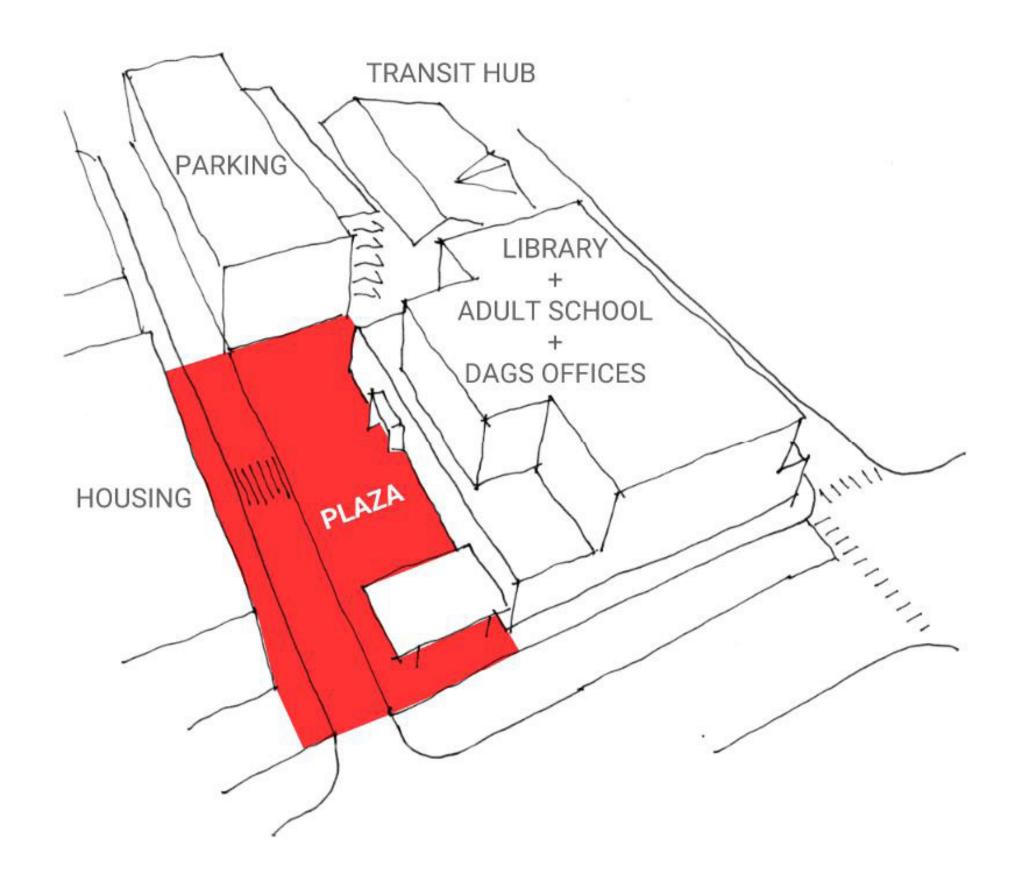
Site Plan - Civic Complex

- extended covered community space onto plaza
- civic center main entrance
- 3 drop-off parking
- 4 parking structure above
- second level pedestrian bridge
- 6 service loading zone

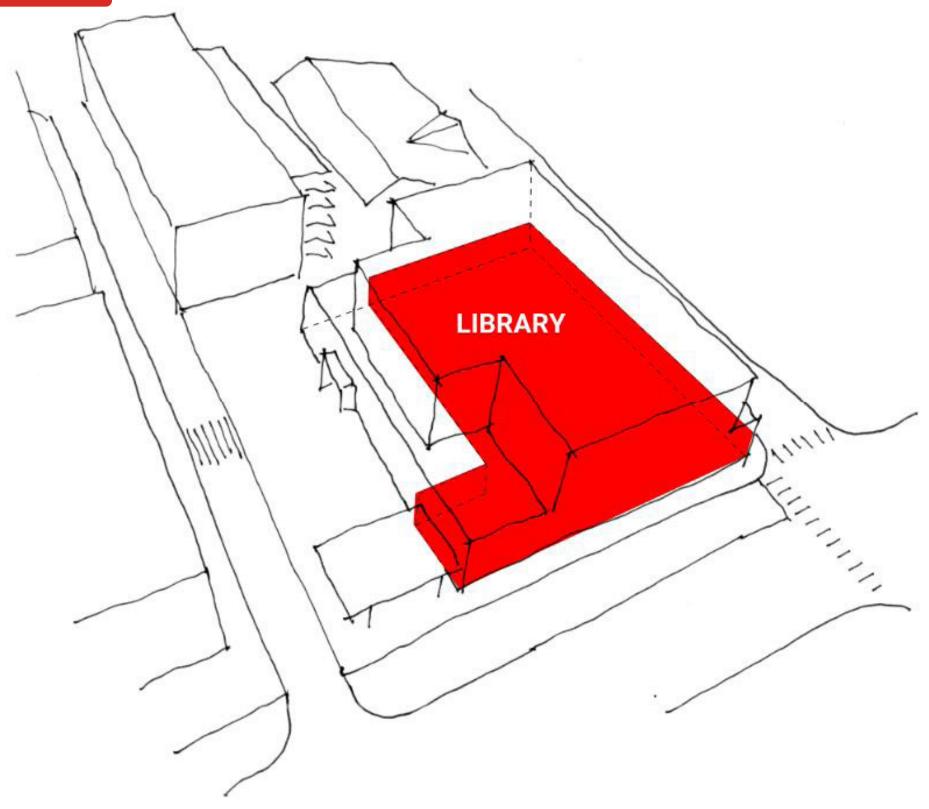




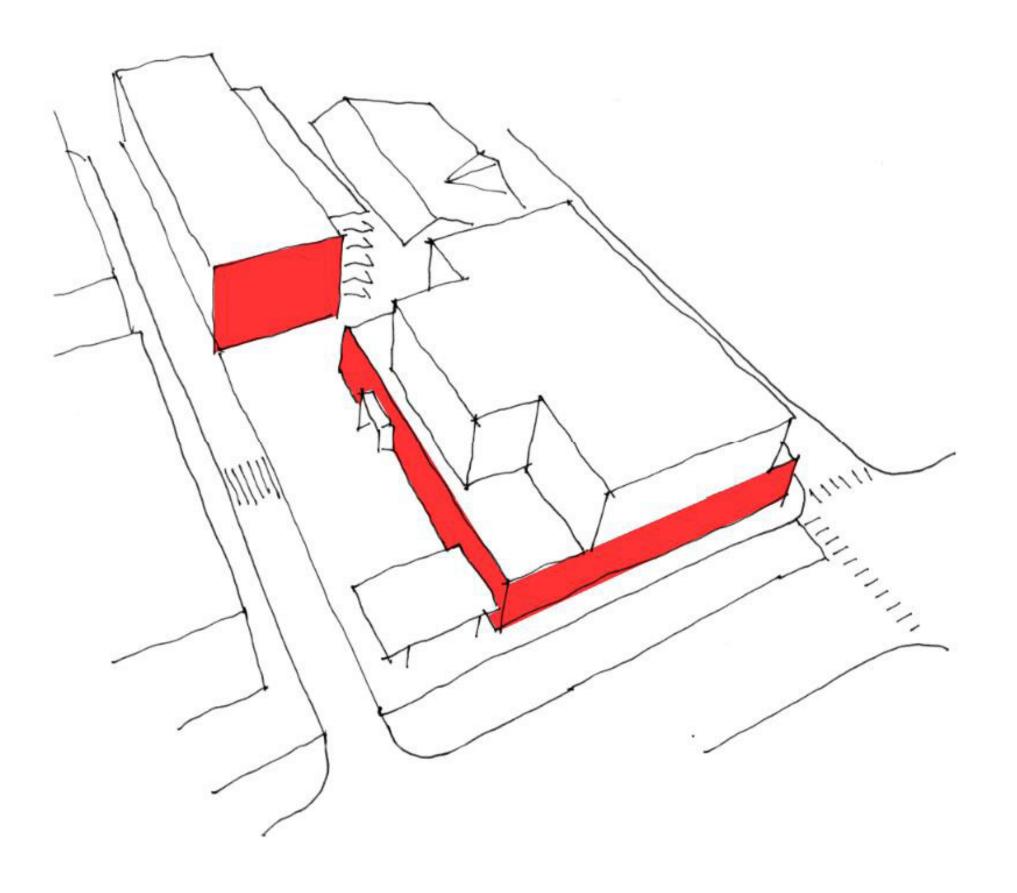
Civic Presence



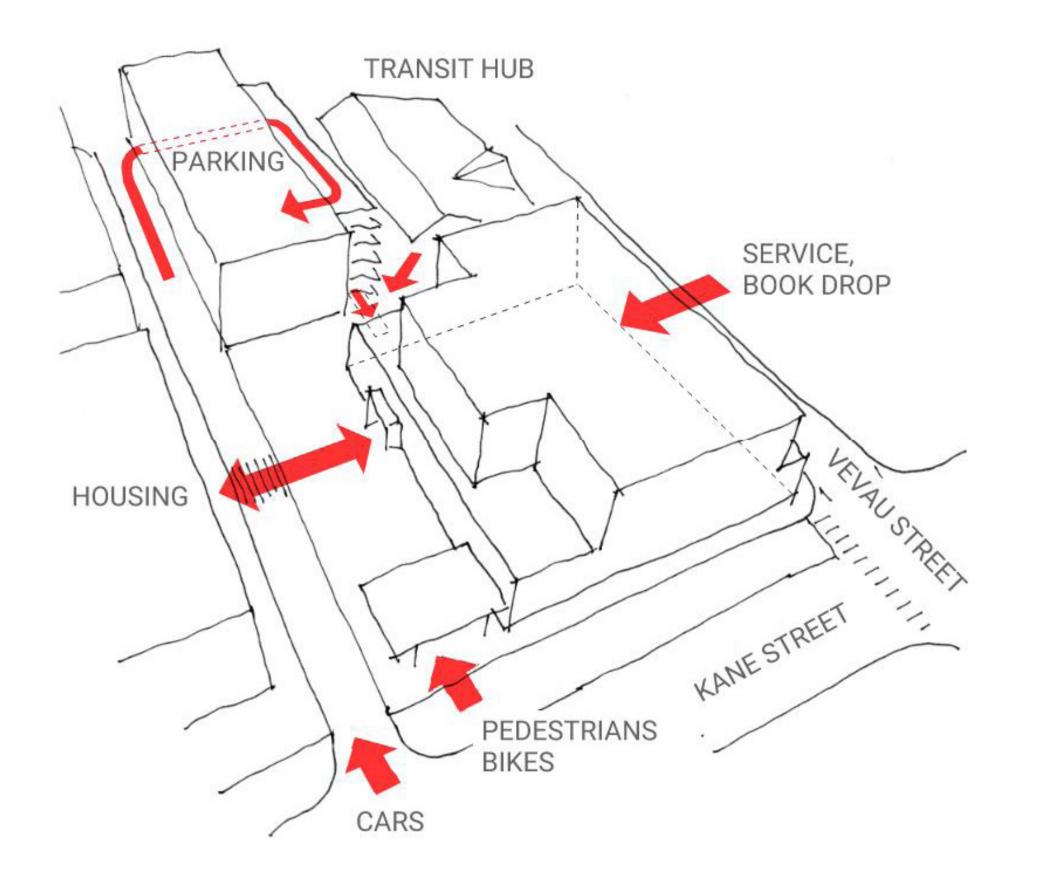
Library: Full Program at Street Level



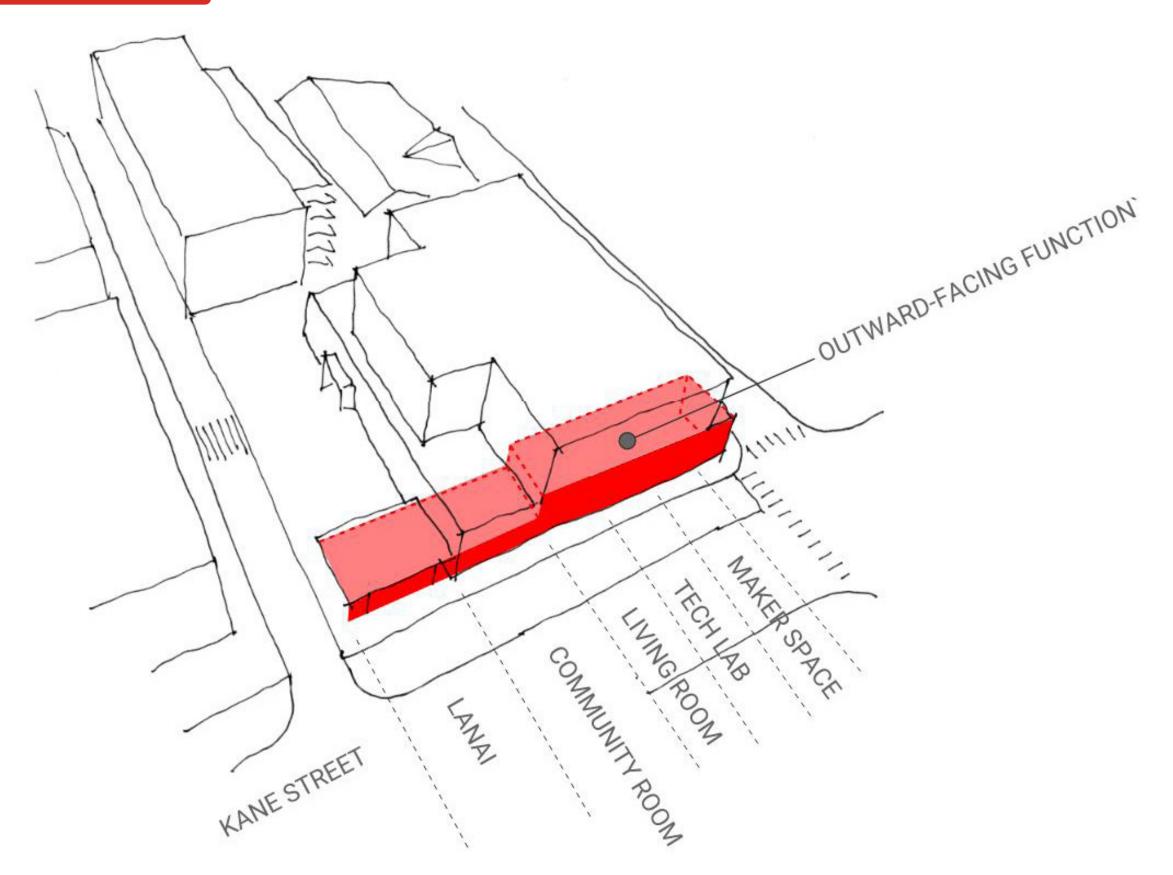
Intuitive Welcome

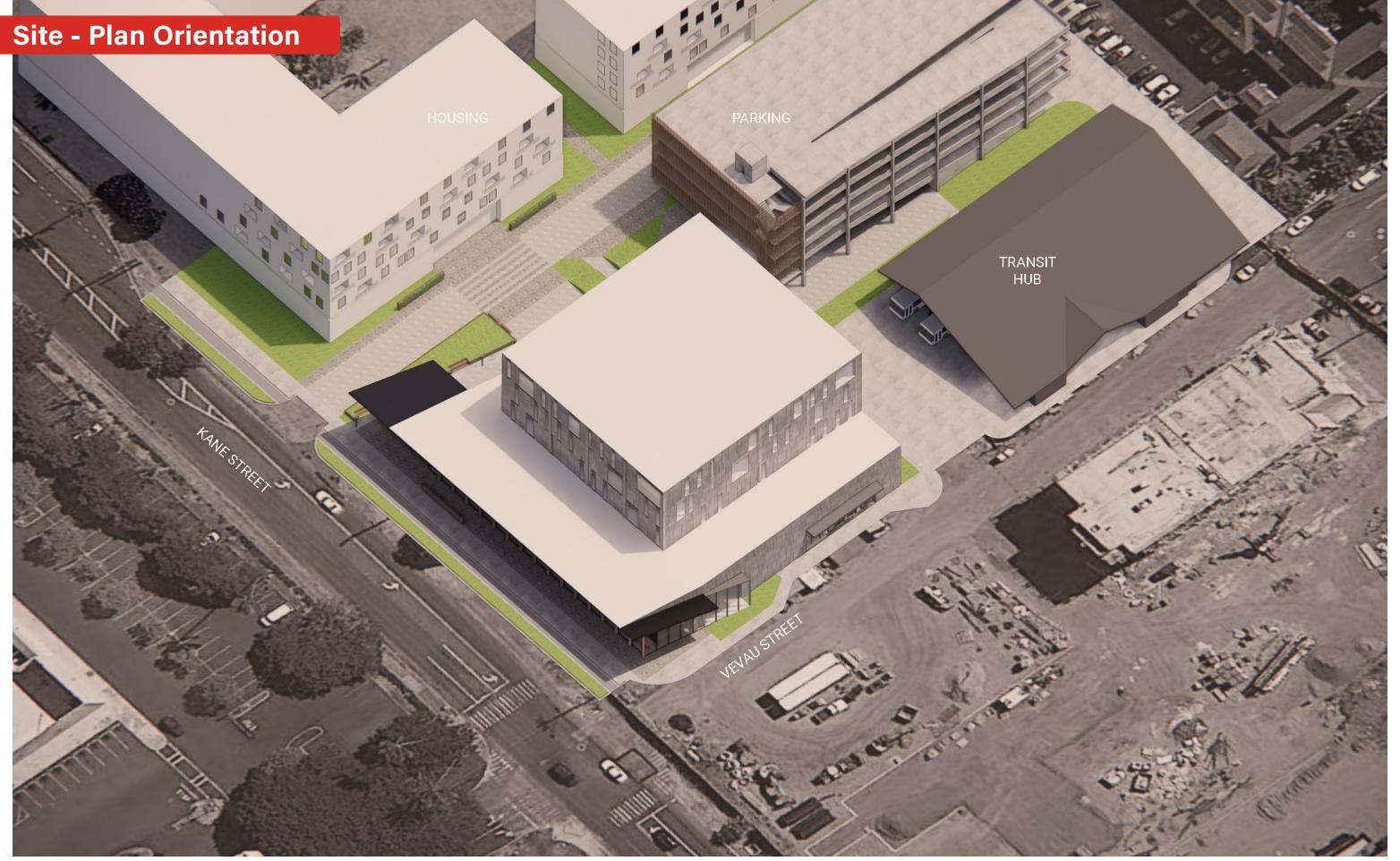


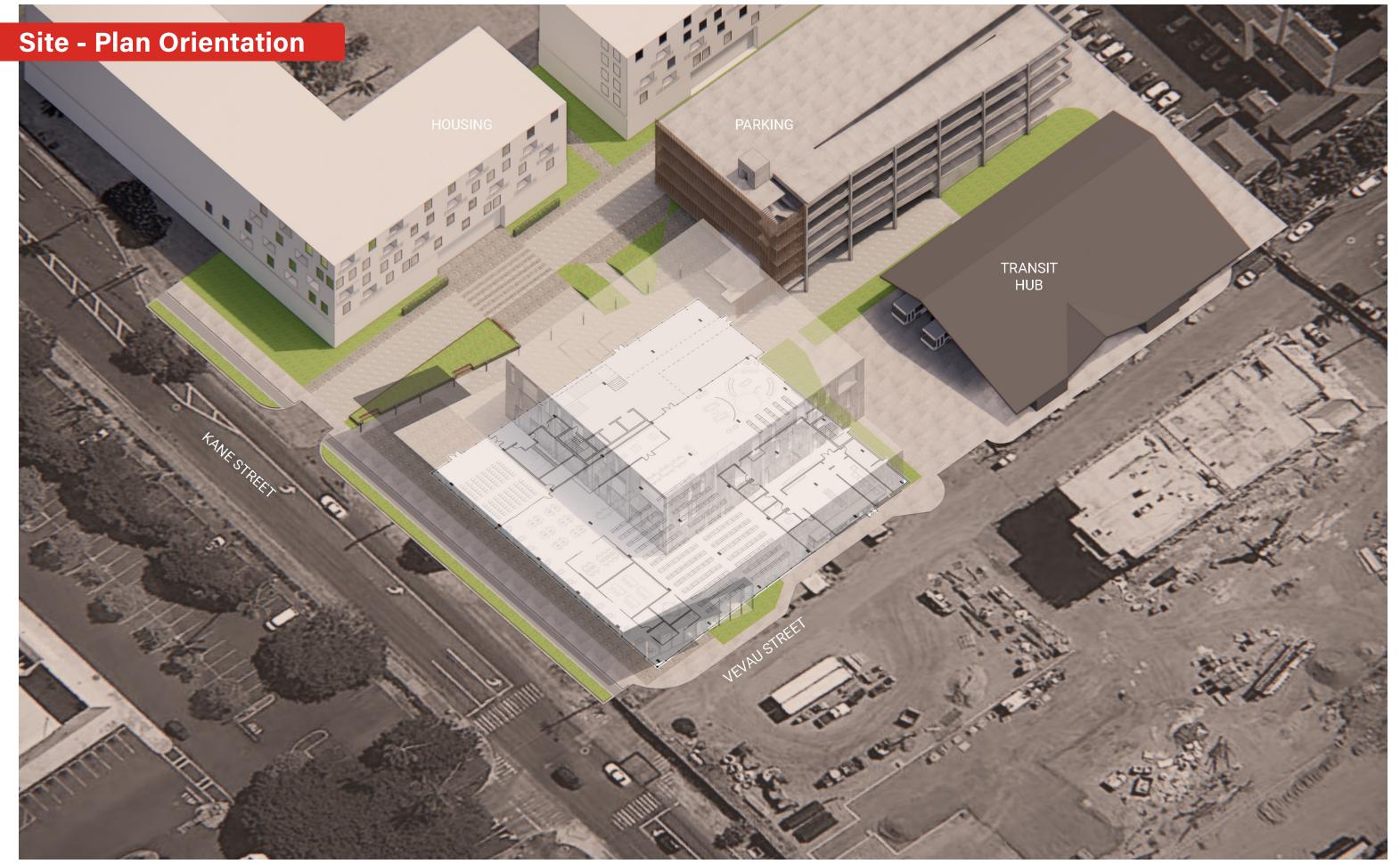
Optimized Access

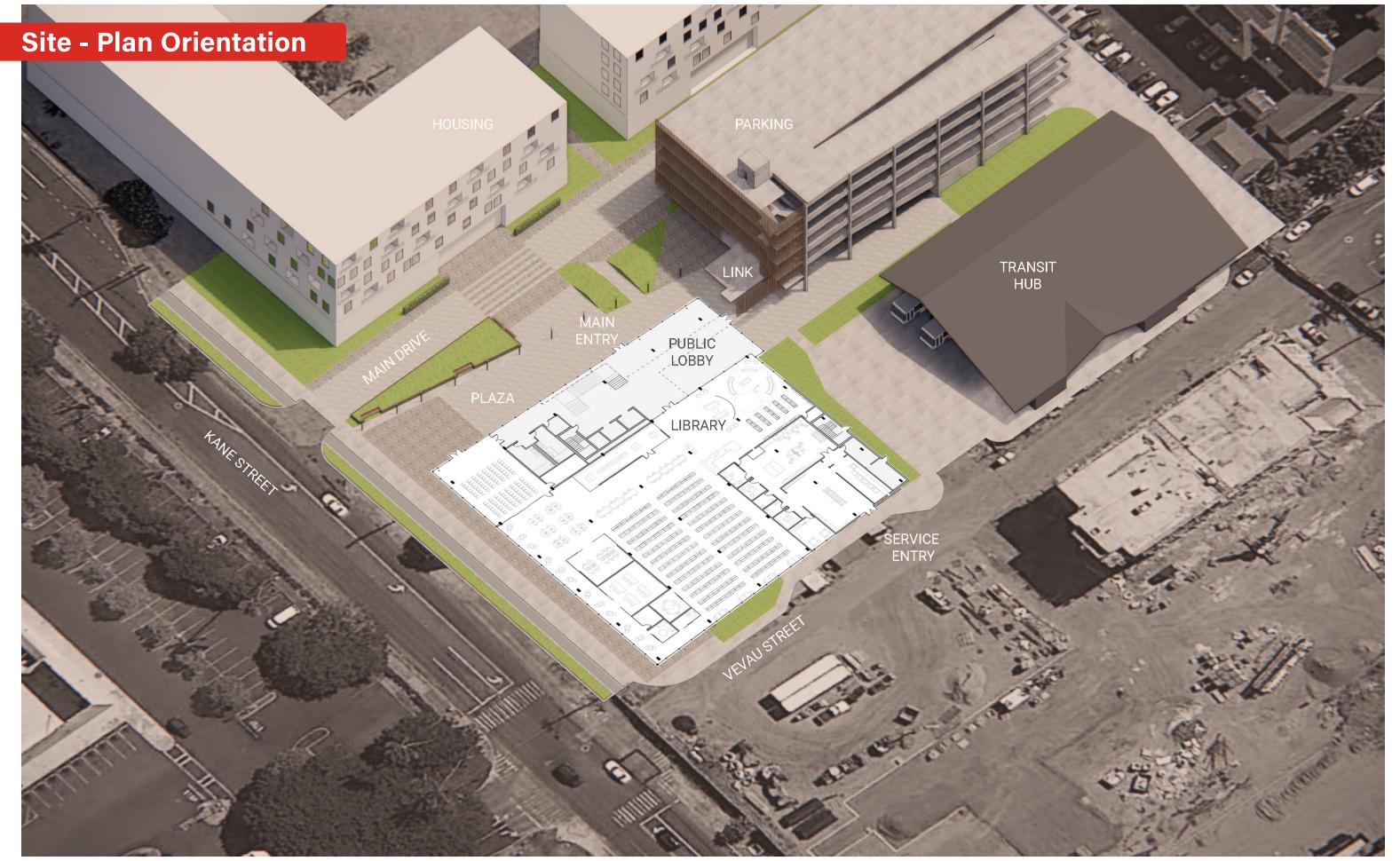


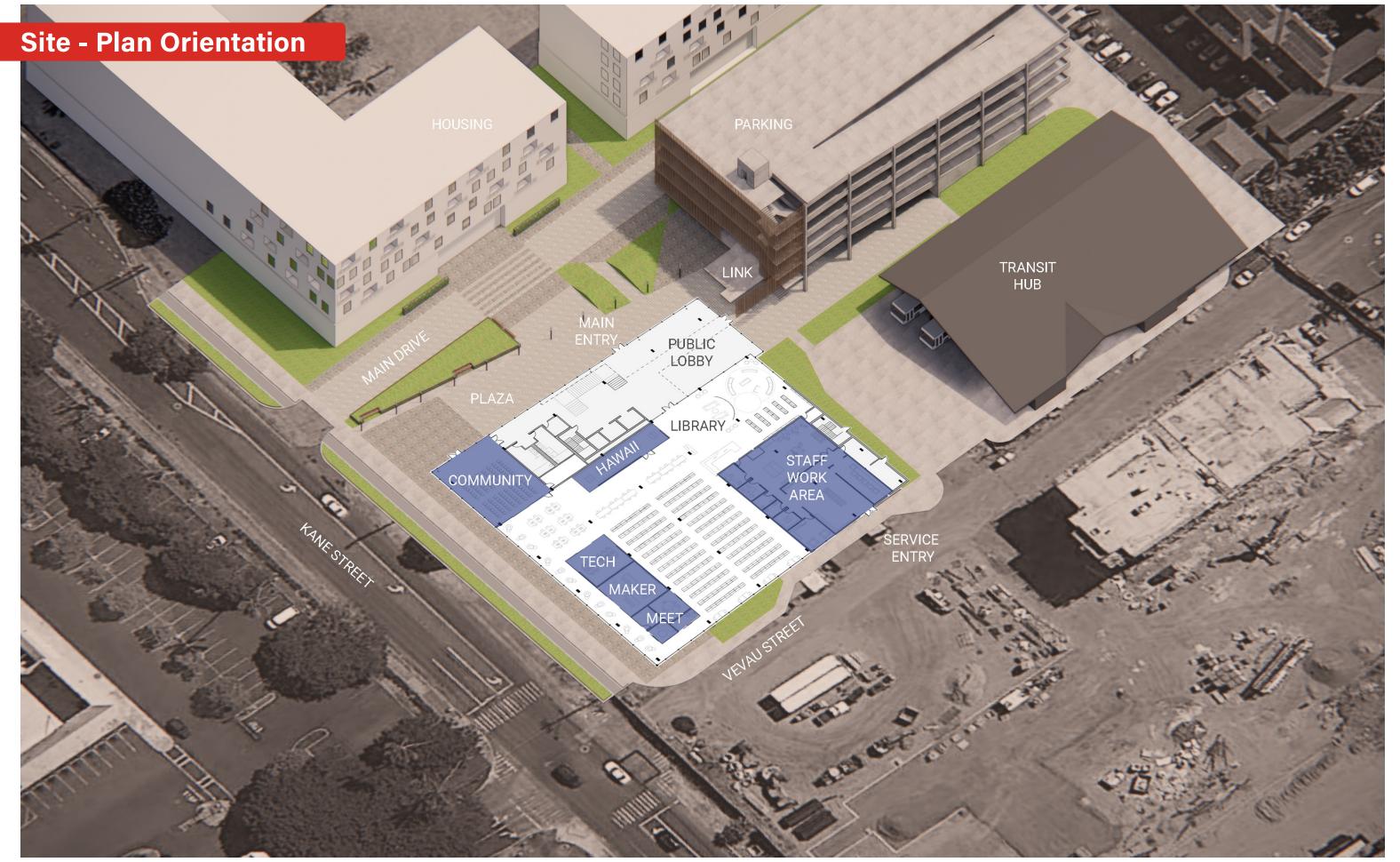
Visibility of Library to Kane Street











Library Program

	EXISTING KAHULUI LIBRARY SPACES	INCREMENTAL UPGRADE	Delta from Existing in Sq Ft	% Delta from Existing	RECOMMENDED PROGRAM optimum	Delta from Existing in Sq Ft	% Delta from Existing	AS DRAWN	
	us 15	Detter			Optimum				<u>Notes</u>
STAFF SPACES	4,086	3,603	483	12%	3,616	470	12%	3,668	Meeting room is shifted from staff to public; staff can still use (see Meeting Rooms, below). An AMHS and book drop are added.
COLLECTIONS SHELVING	3,075	3,500	425	14%	4,000	925	30%	3,925	The existing library has 3,075 SF of shelf space. However, the planned shelving will be lower in height, meaning more floor area is needed. Using shorter shelving matches our recommendation.
LOBBY	1,027	1,205	178	17%	1,210	183	18%	1,010	Increase includes missing elements of queuing space, self-checkout, internal bookdrop, message board, etc.
MEETING & SPECIALTY ROOMS	1,187	2,190	1,003	84%	3,375	2,188	184%	4,083	Increase reflects trend toward libraries offering more space to meet, collaborate, make things, and childrens and community events.
CHILDRENS	1,574	1,750	176	11%	2,110	536	34%	2,080	Increase reflects room for basic amenities that will attract parents and offer more to children, such as interactive zone, early literacy computers, etc.
READING ROOM, COMPUTERS	2,176	2,176	-	0%	2,176	-	0%	2,175	This area is carried through from the existing as the quantity and size of furniture is on target with libraries of this size.
SUPPORT SPACES	280	570	290	104%	570	290	104%	620	Most support spaces are assumed to be outside of the library. This accounts for inclusion of family restrooms near the Children's area, and an I.T. Room.
SUBTOTAL	13,405	14,994	1,589	12%	17,057	3,652	27%	17,561	
Grossing Factor	12%	10%			10%			10%	This accounts for interior walls, structure, shafts, and excludes exterior walls, since the library is a space within a larger building.
TOTAL	15,170	16,493	1,323	9%	18,763	3,593	24%	19,317	This is INTERIOR square footage. Also, the library program does not include common spaces that may be on the same floor, but outside the library.

SUMMARY:

The key difference between the Incremental and the Recommended increase of the meeting rooms and childrens space. The Staff and Support spaces are consistent between the two proposed programs which we find appriopiate in trends with a modern library.

Note that as of this draft, collections data in the form of numbers of volumes needed to be held on shelves is still forthcoming from HSPLS. Therefore, the square footage figures for Collections Shelving are estimates, taking into account shifting from current shelving to shorter shelving as used at Liliha.

Library Program Diagram



COLLECTIONS SHELVING

LOBBY

MEETING & SPECIALTY ROOMS

CHILDRENS

READING ROOM, COMPUTERS

SUPPORT SPACES



First Floor Plan: Library



Exterior Book Drop

 AMHS

Building Service

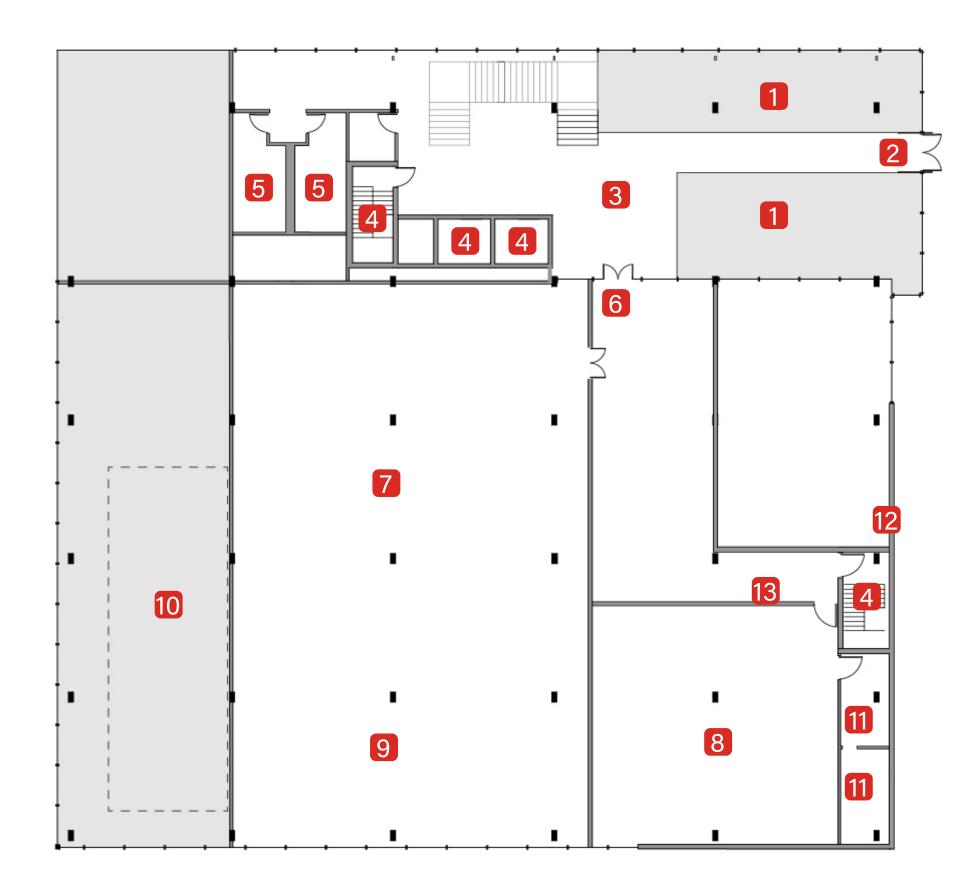
Collections

Hawaiian Room

Living Room



Second Floor Plan: DOE Adult School



- 1 Public Entry Below
- Parking Bridge Entry
- 3 Second Level Public Lobby
- 4 Vertical Circulation
- 5 Public Restrooms
- 6 Adult School Entry
- 7 Adult School
- 8 Mech Room
- 9 Future Library Growth
- 10 Library Growth
- 11 Building Service

Cost Estimate

Project Cost Summary

Cost per square foot for a library varies depending on items such as shelving, furniture, technology, and the automated materials handling system are included in the construction contract or procured by the owner. Based on prior libraries of similar size, and factoring in current market conditions (recent price increase due to inflation, supply

Furniture Fixtures & Equipment - General Furniture Equipment - Library Shelving Technology

Appliances RFID and Misc Materials Microfilm Reader Special Furniture for Children's Area Artwork Automated Materials Handling System chain shortages, etc) and premiums for items being shipped, the list below are recommendations for general budgeting purposes for Library-specific Soft Costs.

\$875,000
included in FF&E
\$115,000 (cabling included in construction budget)
\$15,000
provided by HSPLS
provided by HSPLS
\$85,000
1.00% of construction budget
\$125,000

DRAFT 02/08/2023 STATE OF HAWAII DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES

		JAIL OI		EI AII I IVI EIN I				
Description	Description Area (SF) Area (SF) Total Cost Area Multiplier (SF) (\$)		Cost	Notes/Assumptions				
Program Area Analysi	S							
Primary Facility: Civic	Center							
Library	19,000		550	10,450,000				
DOE Adult School	7,000		500	3,500,00				
DAGS Office Space	38,000		500	19,000,000				
Common Spaces	7,500		500	3,750,000				
Total Primary Facility		71,500		36,700,000	Civic Center: Library located on Ground Floor (19000SF) Library Program selected for Incremental Upgrade Parking: Rectangular Parking Structure			
Supporting Facility								
Parking: Level 1	9,200	+			228 stalls provided (36 at ground level)			
Parking: Level 2-5	94,600	+			Assumes parking is precast due to multiple level			
Total Parking		103,800	110	11,418,000	repeated stack. (Simple stack should justify econor of scale efficiencies of precast.) Assumes Conc 2 Office will have varied faced with some transfer conditions to create L1 indoor / outdoor plaza public space creation. (more costly office const. costs)			
Driveway	9,400	†			opus creation (more example more contained con			
Landscape	17,200	†						
Plaza/Pavement	19,900	1						
Total Open Space		46,500	40	1,860,000				
Subtotal Direct Cost			450/	49,978,000				
Design Contingency		<u> </u>	15%	7,496,700				
Escalation			12%	5,997,360				
Subtotal, Estimated Di	rect Cost f	to Prime		63,472,060				
Prime Contractor Mar	 kups							
Prime Contractor's JOOH		+	13%	8,251,368				
Prime Contractor's HOOH			5%	3,173,603				
Prime Contractor's Profie			6%	3,808,324				
Bonds Insurance		 	1.5%	952,081				
G.E. Tax			4.71%	2,989,534				
Total Estimated Contract Cost				82,646,969				
Rounded				82,647,000				

5 KAHULUI PUBLIC LIBRARY STUDY 6



During a food truck event underneath the parking structure looking toward Kane Street.

Street View



Looking from Kane Street looking towards the Civic Center and residential housing.