



OSILIGI MATERNITY HOSPITAL, KENYA
WINGS OF HOPE GLOBAL COOPERATIVE
OSILIGI HOPE FOUNDATION

OSILIGI MATERNITY HOSPITAL NAROK COUNTY, KENYA

CONCEPT DESIGN AND VISUALIZATION

DATE: JULY 22, 2024

PREPARED BY BUILD HEALTH INTERNATIONAL FOR WINGS OF HOPE GLOBAL COOPERATIVE (WOH)









Organization Background

WINGS OF HOPE GLOBAL COOPERATIVE

Founded in July of 2019 by David C. Weeks as Global Craft Cooperative (EIN 84-2393155), The Wings of Hope Global Cooperative became its trade name in June 2023 and as a 501c3 non-profit organization it serves as a platform to provide resources for humanitarian assistance. The organization is an extension of Mr. Weeks' International philanthropic work as Director of Global Education at the Glenelg Country School in Howard County, Maryland.

The Wings of Hope Global Cooperative seeks to provide resources to promote good health, education, and economic growth that will empower people in need.

BUILD HEALTH INTERNATIONAL (BHI)

Build Health International (BHI) believes that every person has a human right to quality healthcare. That's why BHI builds and equips dignified spaces for care in the world's most vulnerable communities, enabling local clinicians to work at their full potential. Working closely with Ministries of Health, partner organizations, and local workforces, BHI promotes sustainable design, and empowers communities, and enables access to dignified and affordable healthcare.

BHI designs, builds, and maintains sustainable healthcare facilities in low- and middle-income countries. With an experienced staff of global health experts, engineers, architects and contractors, BHI oversees planning, design, procurement, shipping, construction, and maintenance of facilities with our international nonprofit partners.

PLANNING AND DESIGN TEAM

David C. Weeks - WOH, Project Leader

Kikanae Punuya - Osiligi Hope Foundation Site Supervisor

Marcus Tsouvalos - Design Architect

Gerard Georges - BHI, Director of Architecture

Robert Raymond - BHI, Hospital planner and Architect

Tracy Previlon - BHI, Drafter

Aristide Shingiro - BHI, Construction Manager



Project Location

Proposed Development Site
 Estimated ~ 9 650 sqm

The site is located in Ntulele, Kenya, in the County of Narok. The main road runs adjacent to the site, providing direct connectivity to the nearest city, Ntulele, which is approximately 4.8 kilometers away via the main road(s).

The surrounding properties feature primarily agricultural lands. To the northwest of the parcel, there is a Church under construction. Future development plans include the addition of a cultural center, further enhancing the community infrastructure and services in Ntulele.



National Road Existing main road

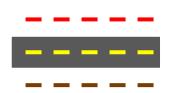




Project Site

Proposed Development Site
 Estimated ~ 9 650 sqm

This parcel is primarily designated for healthcare facilities, including a maternity hospital, a medical dispensary, and a pharmacy. The main road runs adjacent to the site, providing direct connectivity to the nearest town, Ntulele, which is approximately 4.8 kilometers away via the main road. The surrounding properties feature primarily agricultural land. To the northwest of the parcel, there is a church. Future development plans for this site include the addition of a cultural center, further enhancing the Punyua community infrastructure and services in Ntulele.



Site boundaries Main Road Secondary Road

CAMPUS PHASING PLAN

Phase 1: Maternal health clinic and surgical center Phase 2: Future development to include a cultural center and other amenities

Existing Conditions





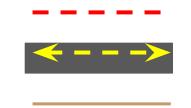


Church OSILIGI **OSILIGI** MEDICAL **DISPENSAR**

Project Site

The main road runs adjacent to the east side of the site, providing direct connectivity to the nearest city, Ntulele, which is approximately 4.8 kilometers away via the main road.

A fully functional dispensary is in the southeast corner of the site. The site also includes a pharmacy with dentist and vision offices to enhance the healthcare services available to the community. The presence of both the dispensary and pharmacy ensures that the community has access to essential healthcare services.



Site boundaries
Existing main road
Existing road

Church PROPOSED MATERNITY HOSPITAL OSILIGI OSILIGI DISPENSARY

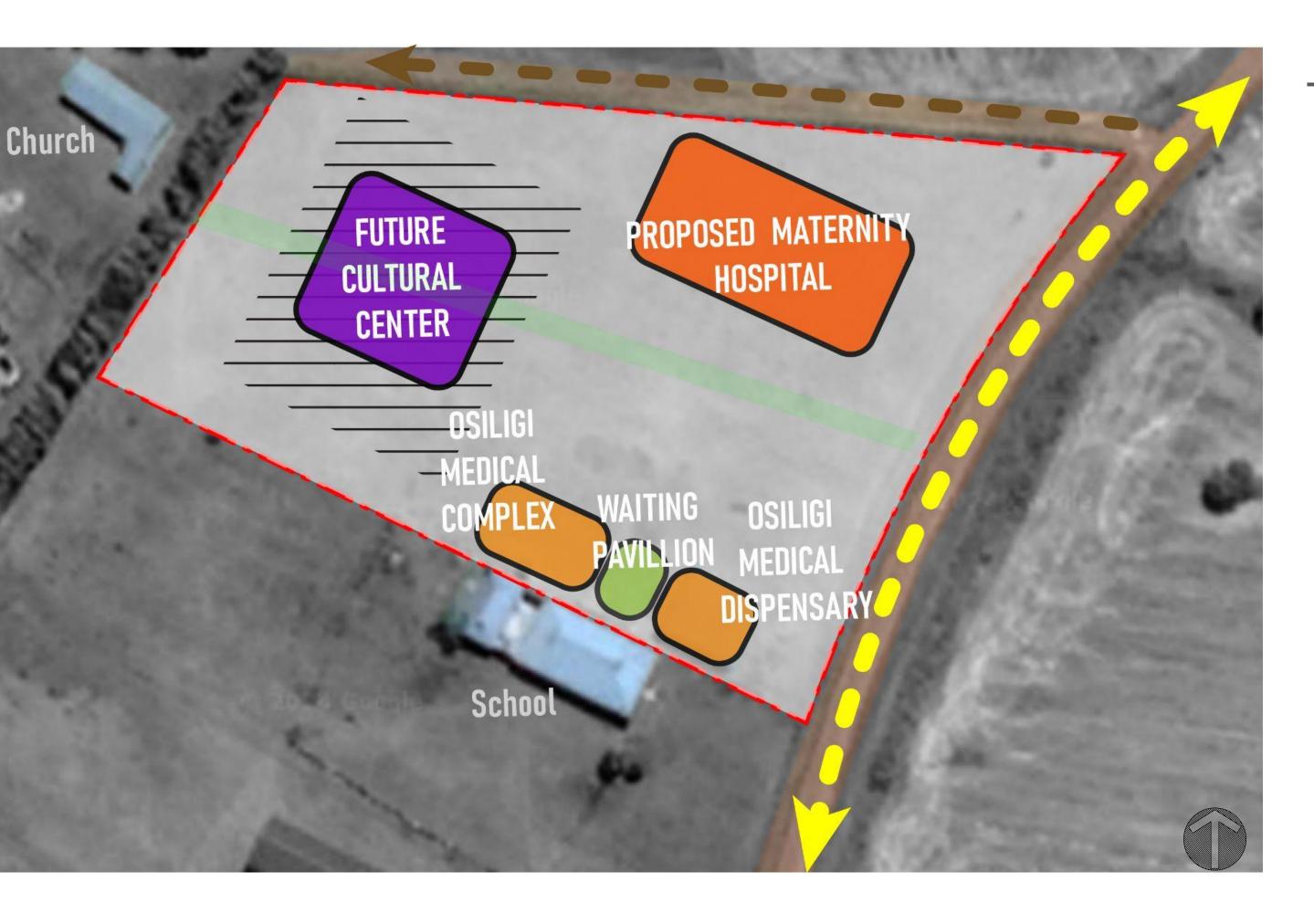
Project Site

Proposed Development

A maternal health and surgical health center is proposed to be located along the north side of the property and will be across from the pharmacy and the dispensary. Will be maternity hospital, further expanding the range of medical services provided. A proposed road at the center of the site will ensure easy access to the healthcare facilities for the residents of Osiligi.

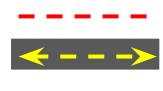


Site boundaries
Existing main road
Existing road



Future Development

Future developments include a cultural center at the west end of the site, with an access drive and parking, connected to the central road. This will provide easy access to local residents and visitors.



Site boundaries
Existing main road
Existing road

FUNCTIONAL SPACE PROGRAM

This functional space program is a detailed, multi-purpose document that serves as an interface between a physical space and the activities, programs and services the space will support.

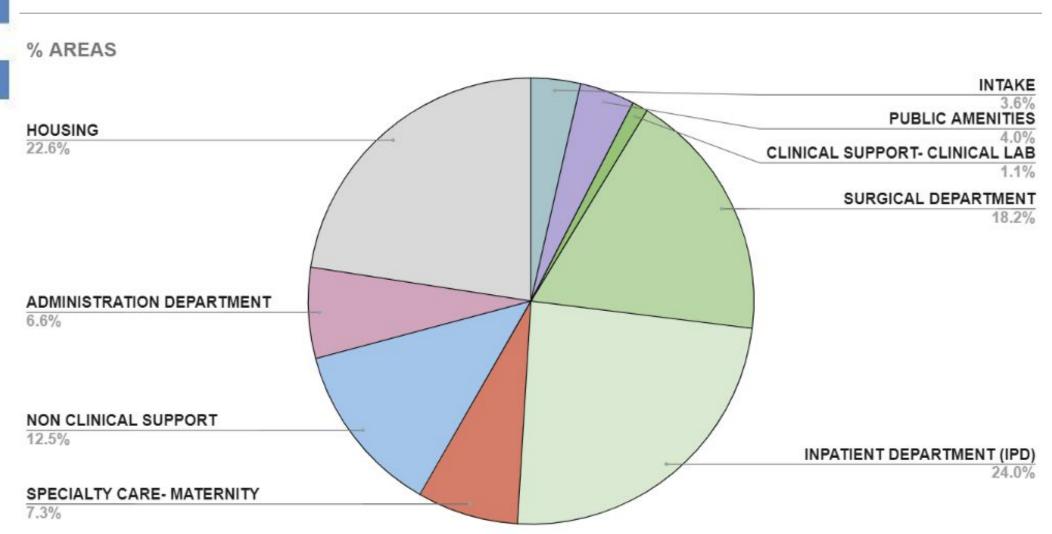
This provides a guide to assess minimum space requirements based of regulatory requirements and healthcare standards.

A functional program generally consists of the following: Assumptions

- Scope of program and service elements
- Objectives to be achieved
- Projected workload
- Projected staffing
- Operational workflow and procedures
- Design and spatial considerations
- Functional relationships

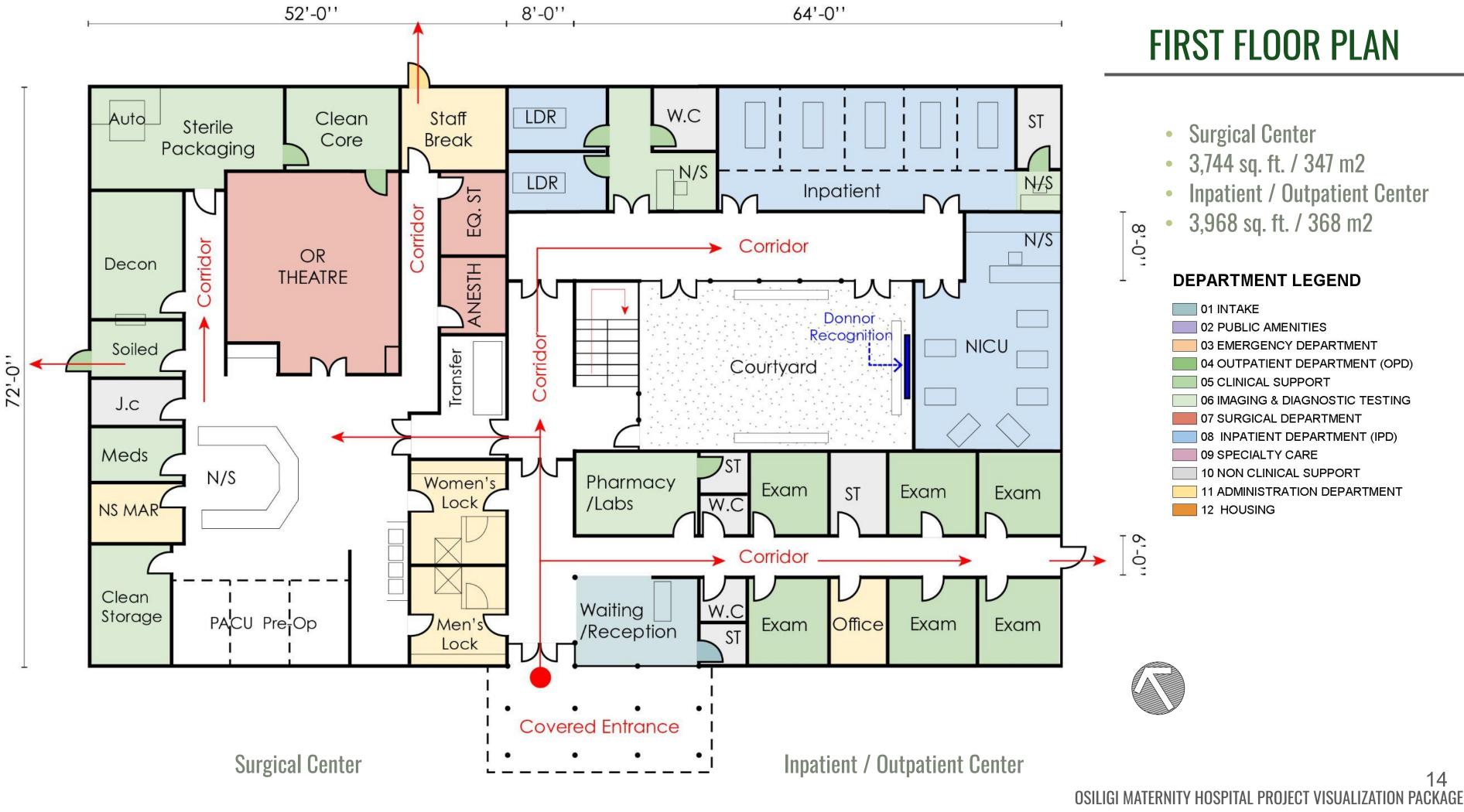
Maternity Hospital - Program

		SOM	SQFT	
	Site Area	13731	147799.25	
	DEPARTMENT AREAS	SQM	SQFT	% of program
00	GENERAL SITE	0	0	0%
01	INTAKE	62	667	3%
02	PUBLIC AMENITIES	69	742	4%
04	OUTPATIENT DEPARTMENT (OPD)	76	820	4%
05b	CLINICAL SUPPORT- CLINICAL LAB	20	215	1%
07	SURGICAL DEPARTMENT	314	3,379	17%
08	INPATIENT DEPARTMENT (IPD)	413	4,445	23%
09	SPECIALTY CARE- MATERNITY	126	1,356	7%
10	NON CLINICAL SUPPORT	216	2,325	12%
11	ADMINISTRATION DEPARTMENT	113	1,216	6%
12	HOUSING	388	4,176	22%
	TOTAL	1795	19341	

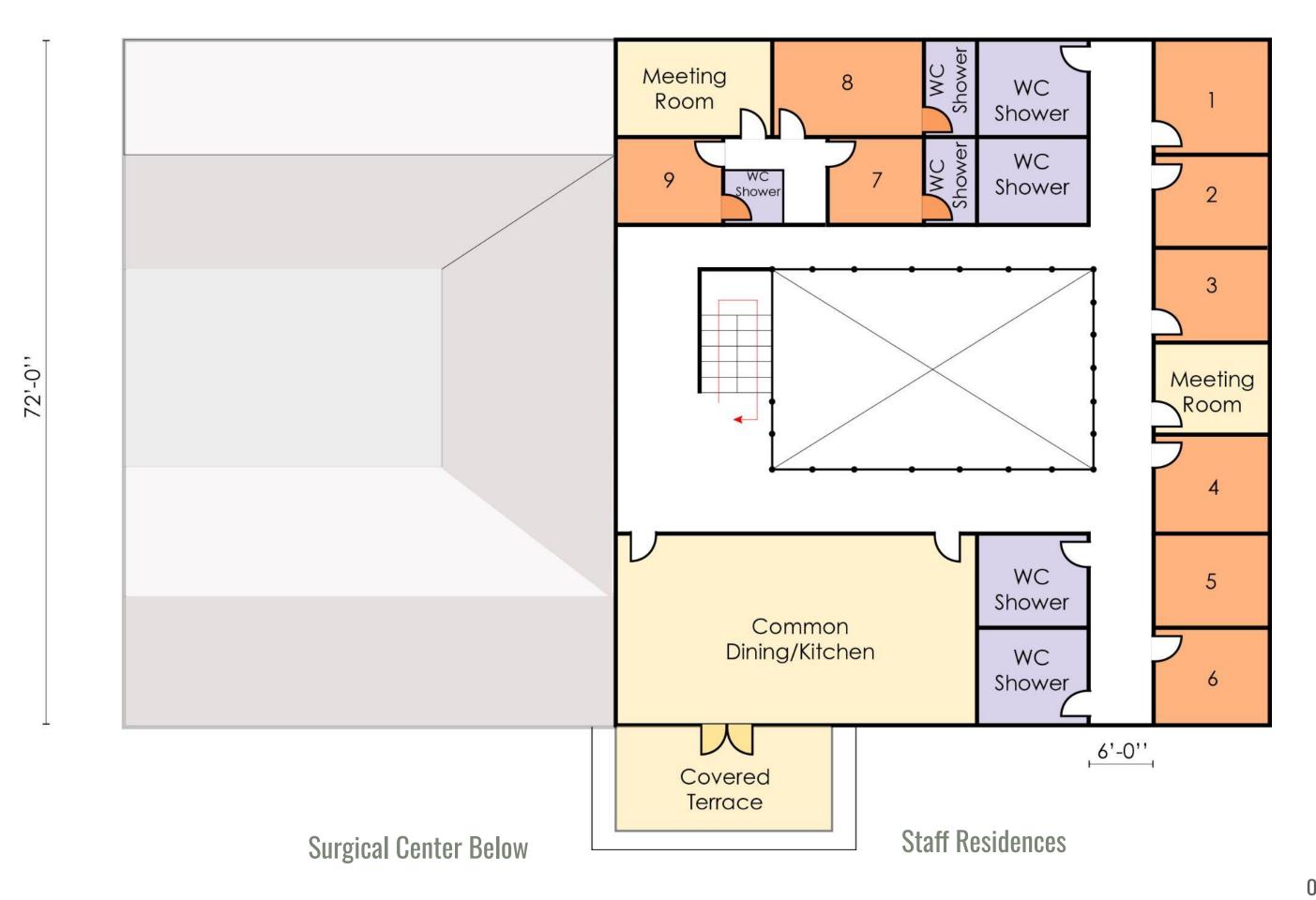


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FLOOR PLANS



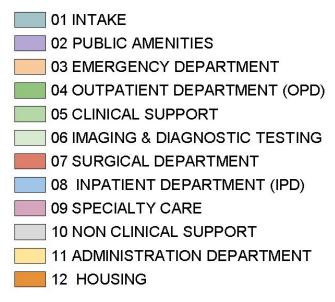
52'-0'' 8'-0'' 64'-0''



SECOND FLOOR PLAN

- Staff Residences
- 3,968 sq. ft. / 368 m2

DEPARTMENT LEGEND





BUILDING FACADES

RENDERINGS

Main Entrance



RENDERINGS

Main Entrance



ESTIMATED COSTS

A **Rough Order of Magnitude (ROM)** has been developed to help conceptualize the potential cost of the Campus Development Plan. This conceptual budget consisting of a weighted mix of historic costs per square foot of buildings of comparative size, shape, and scope and representative of the buildings proposed within the Campus Development Plan. A phased approach was used to prioritize the implementation of the campus development plan and provide a recommended build out plan.

Infrastructure: \$95K

A&E Design:

Construction Docs: \$6k

Sitework:

Roads, Stormwater: \$15k

Waste & H20 MGMT

Water & Sewer: \$40k

Electrical Service:

Power Generation: \$40k

Clinic/Residences: \$320K

A&E Design:

Construction Docs: \$20k

Two Story Building:

Construction: \$295k

Surgical Center: \$373k

A&E Design:

Construction Docs: \$28k

One Story Building:

Construction: \$345k

Note:

These conceptual costs do not include medical equipment, furniture, miscellaneous supplies, consumables, solar panels, legal fees or permitting costs

Estimated Total: \$788k

Estimated costs by area

Operating Theatre: \$100k

Prep & Recovery: \$50K

Courtyard: \$25K

Outpatient Clinic: \$55K

NICU: \$75K

Inpatient Clinic: \$65K

Labor Delivery Rm: \$40K

Kitchen/Dining: \$30k

Solar Power: TBD

Landscaping: TBD

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