

# APPENDIX F

## Guidelines for Health Center Renovation and Expansion Manual

*Four sections with annexes  
and references*



# Guidelines for Health Center Renovation and Expansion Manual

*Purpose of manual and  
objectives of each section*

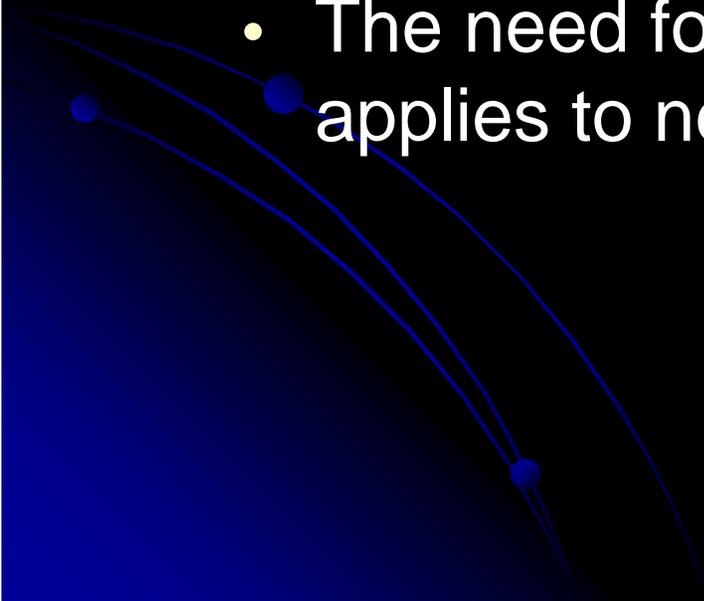


# Purpose

***To enable architects and engineers and other stakeholders involved with improving the healthcare infrastructure to:***

- understand the HC assessment process,
- identify practical solutions for commonly encountered deficiencies and problems,
- prioritize recommendations to ensure physical problems are corrected and essential systems (e.g., access to safe water) are adequate, and
- appreciate how altering patient and staff flow patterns and space use improves the quality of services delivered and makes the HC environment safer for patients and staff.

# Caution

- Without benefit of preventive and routine maintenance, and a maintenance budget that HC staff can easily access, any improvements will be lost in short time
  - The need for maintenance management applies to new HC construction as well.
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# Design of Guidelines Manual

## ***Each of the four sections:***

- is fully referenced,
- has its own appendix, annex and resource materials,
- is page-numbered by section,
- subsections are indexed numerically, and
- is in an e-learning format.

***Because of this, the manual can be easily updated and/or repurposed.***

# Section One

## (Introduction)

### ***Objectives of this section are to:***

- review current FMOH HC standards, PEPFAR guidelines and other relevant documents,
- describe the minimum HC renovation package based on review of the findings,
- document HC space and function requirements in 2008, and
- describe the need for regular review of standards and guidelines.

# Health Center Space and Function Requirement in 2008

More than 400 HCs built to FMOH 1998 health center standard, BUT...

- Useable space is only 536 square meters (m<sup>2</sup>)
- Since then many new services added
- Based on review FMOH and PEPFAR guidelines the estimated space needed now is 1018 m<sup>2</sup>
- 54% (261 m<sup>2</sup>) of new space needed to implement full range of HI/V/AIDS and co-infection services
- 27% (130 m<sup>2</sup>) needed for dedicated stores space

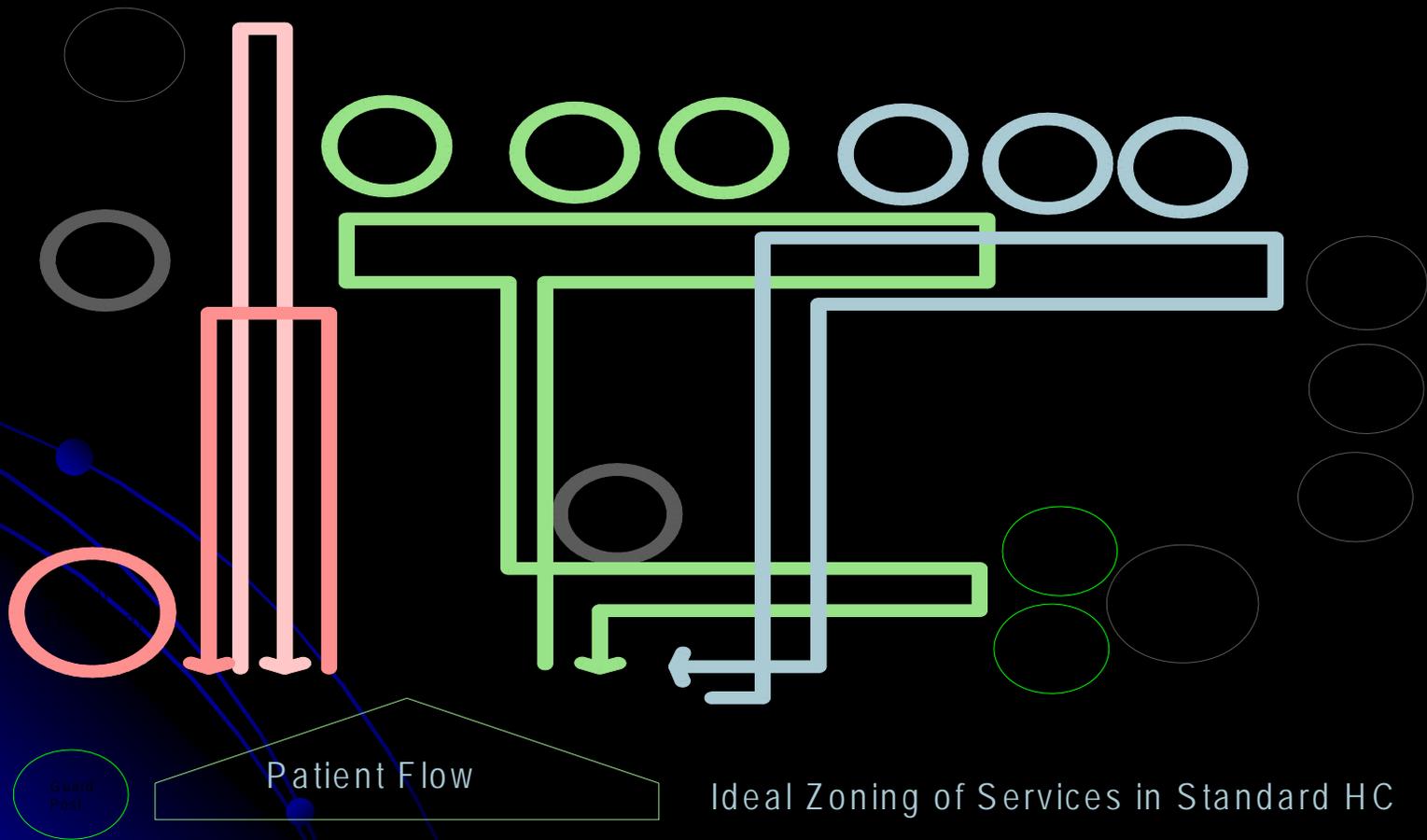
# Section Two

## (Health Center Assessment Process)

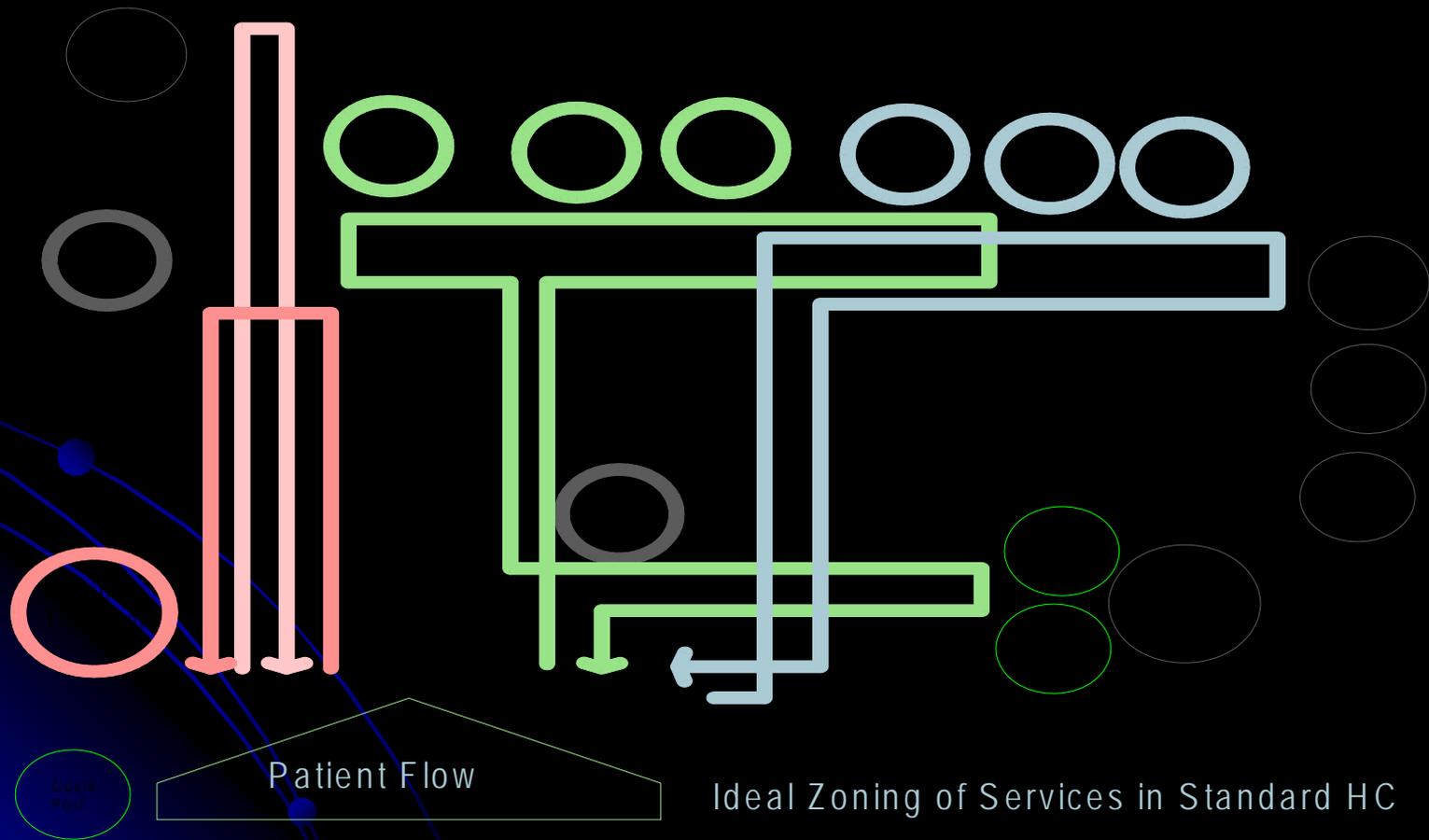
***Objectives of this section are how to:***

- conduct HC assessments efficiently and effectively,
- assess space use within the HC compound,
- determine patient and staff flow patterns,
- collate and analyze the findings,
- link identified deficiencies and problems to potential solutions, and
- prioritize HC assessment findings.

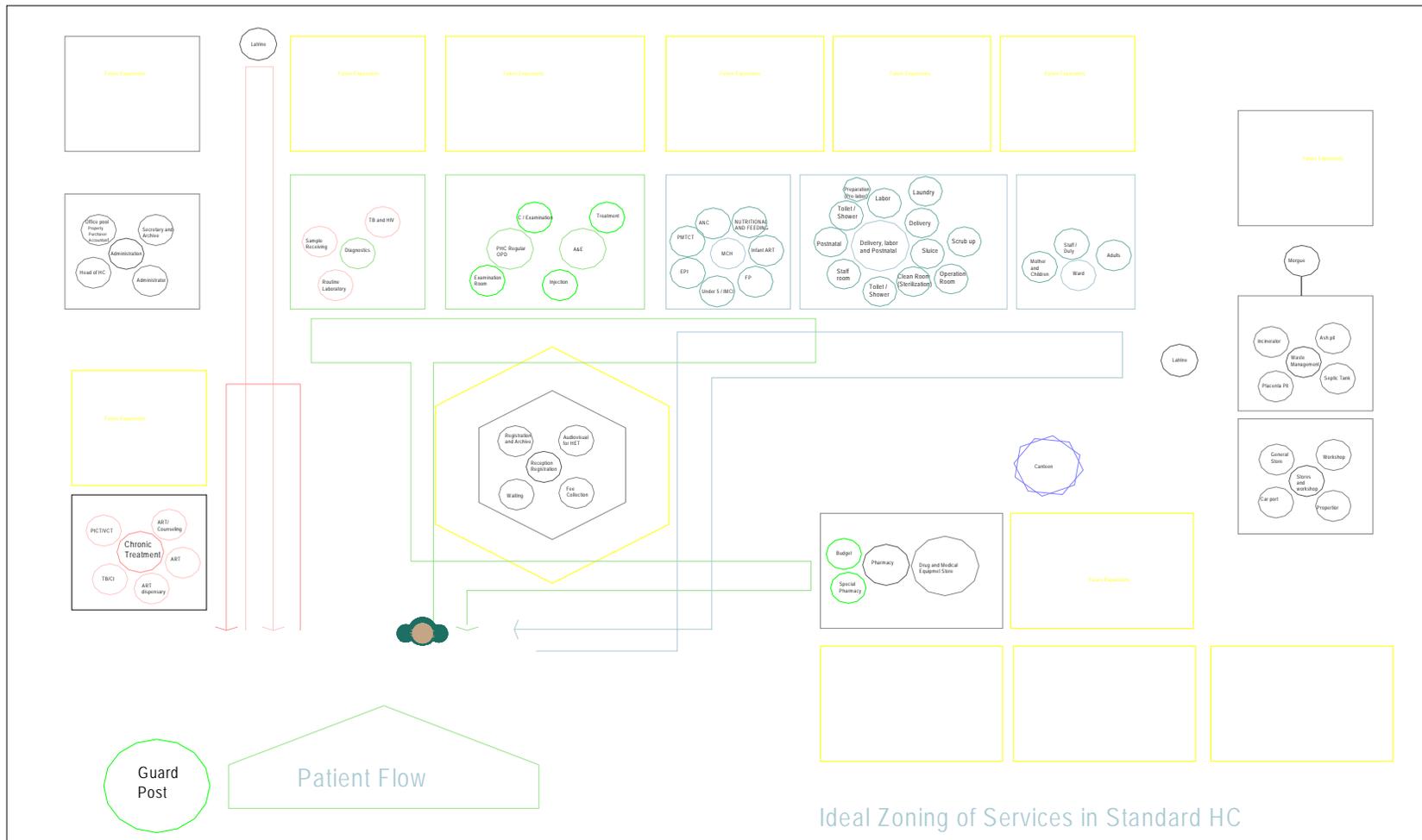
# Objective: Assessing Space Use and Flow Patterns



# Ideal Zoning (Patient Flow Pattern)



# Zoning, Clustering and Patient Flow



# Section Three

## (Renovation Guidelines and Practices)

***Objectives of this section are how to:***

- translate the HC assessment findings into a detailed BOQ,
- tender HC renovation works contracts,
- solve most of the problems arising during renovation works with contractors,
- supervise and approve HC renovation works,
- manage the works contract finances, and
- understand the importance of preventive and routine maintenance to sustain HC improvements.

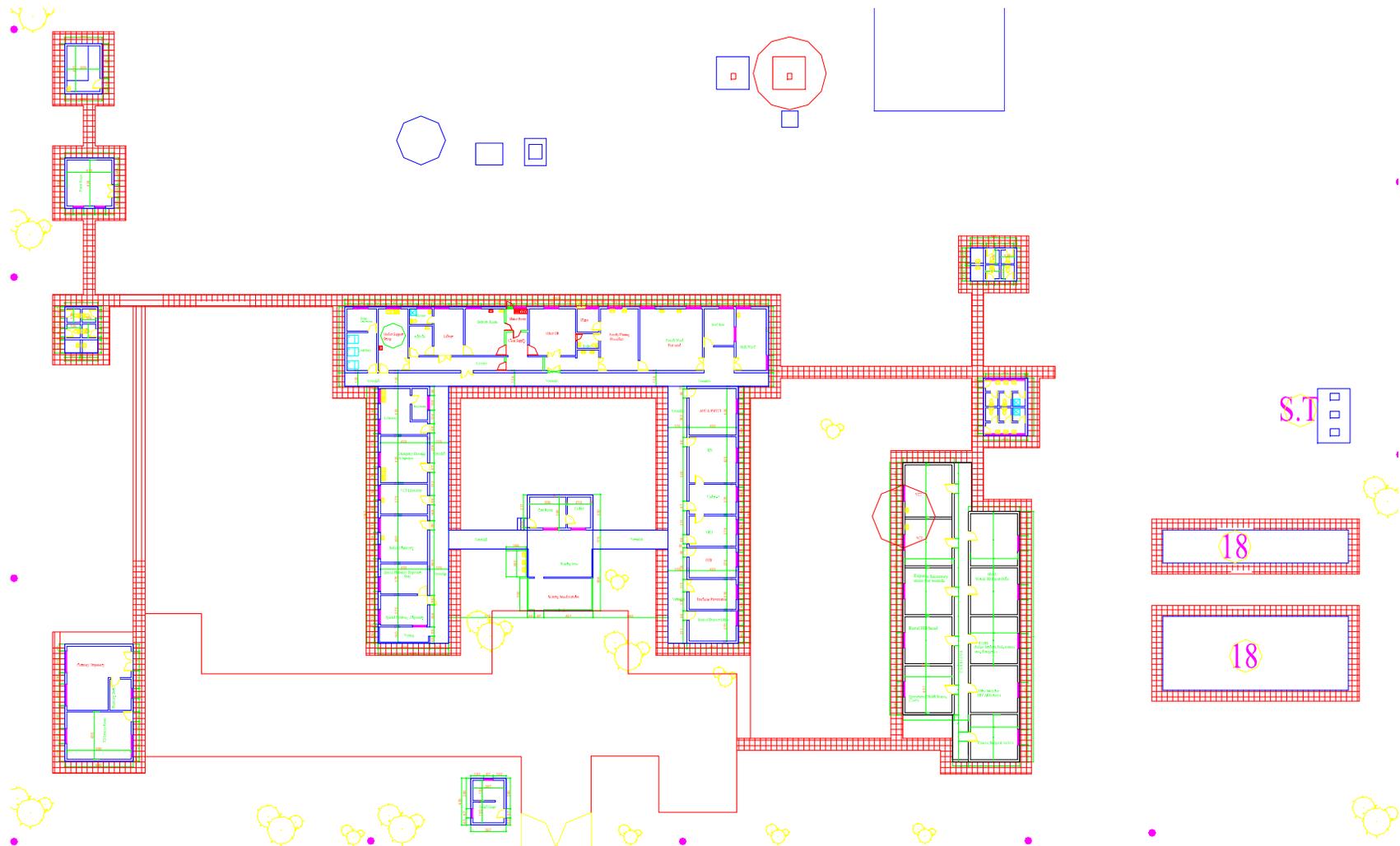
# Section Four

## (Expansion of Health Centers)

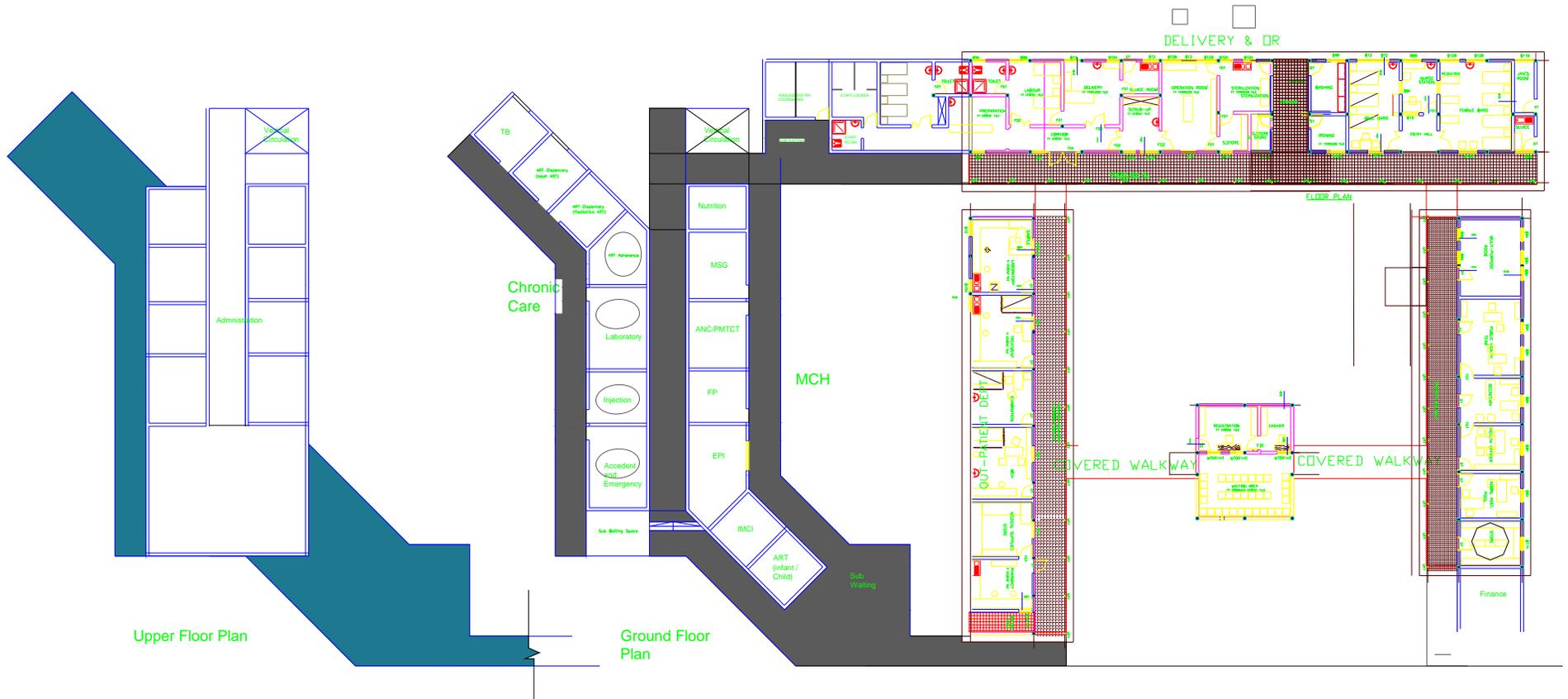
### ***Objectives of this section are to:***

- describe the master planning approach as applied to HC renovation and expansion,
- present the rationale for revising the 1998 FMOH and 2006 (nucleus ) HC standards,
- provide design options for expansion of HCs built to the 1998 FMOH HC standard (over 400 built in the last decade),
- provide detailed design options for expansion of the HSDP III 2006 “nucleus” HC, and
- present a new HC model that incorporates the additional space needed in 2008.

# 1998 FMOH Health Center Standard Design (536 m2)

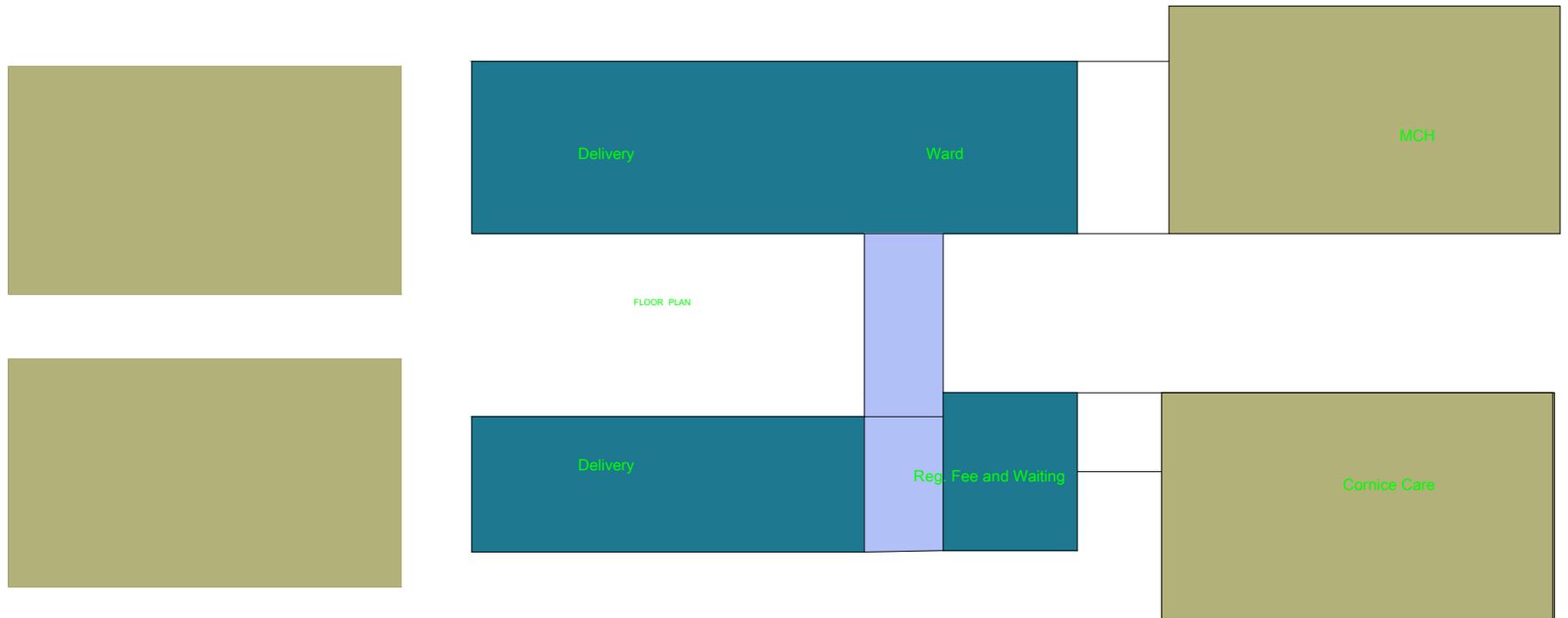


# Two Floor Modification (1018 m<sup>2</sup>)

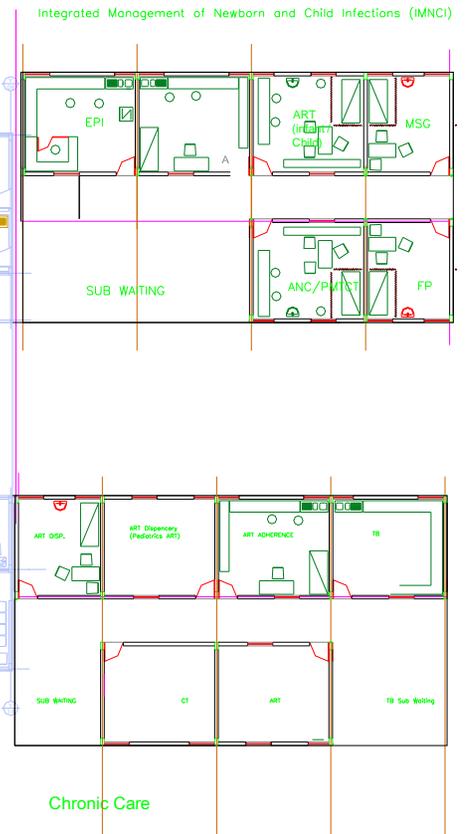
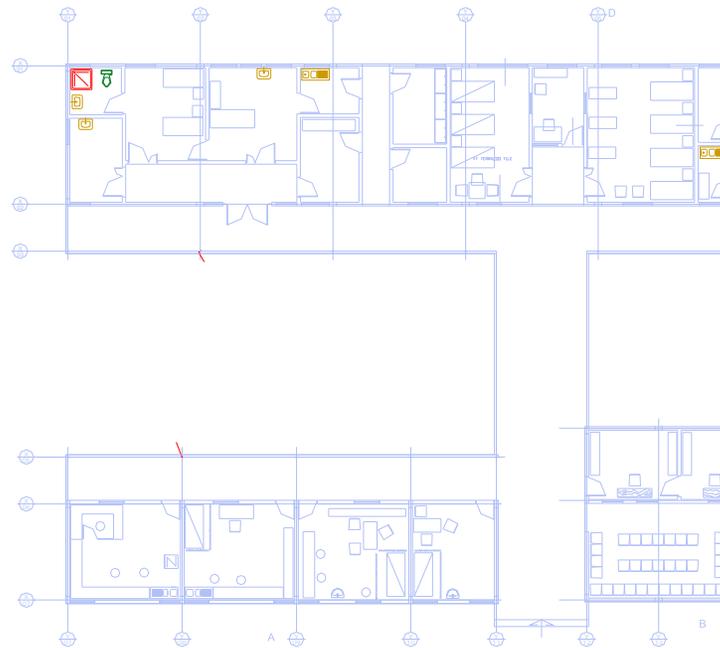
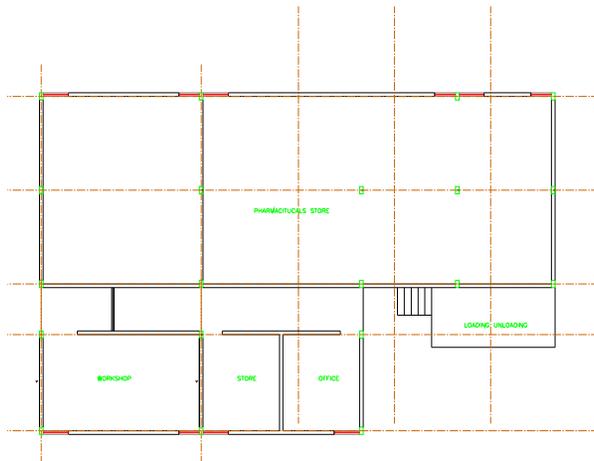
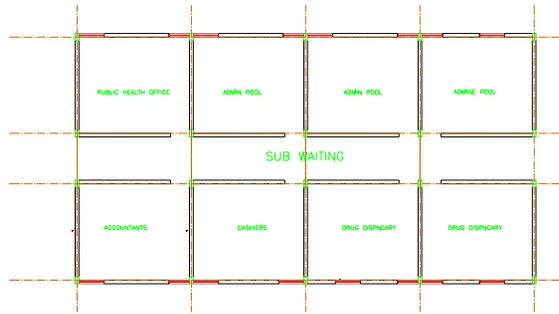
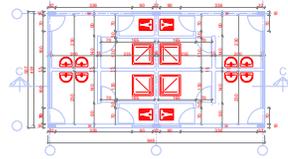




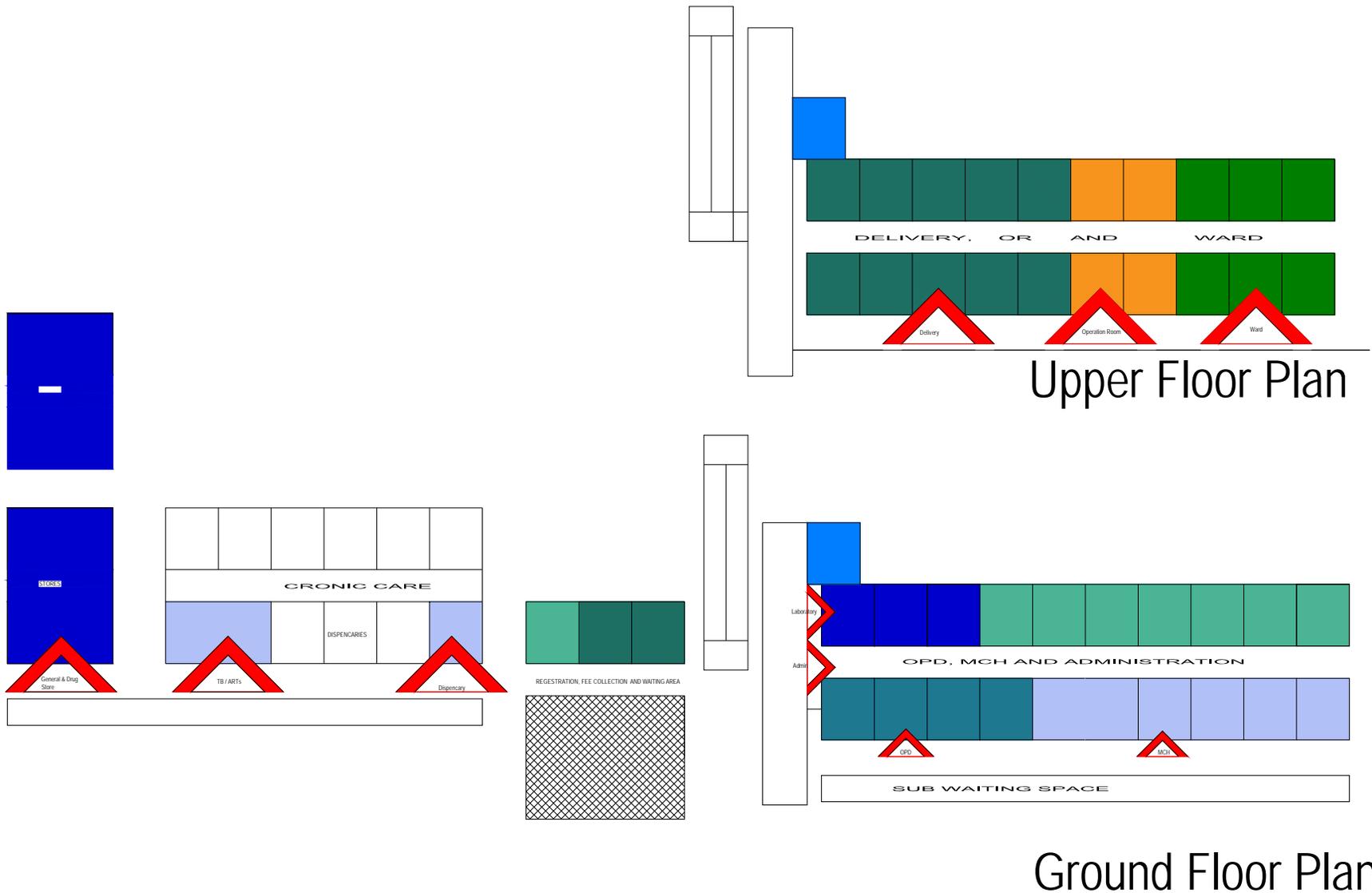
# Modular Modification (1018 m2)



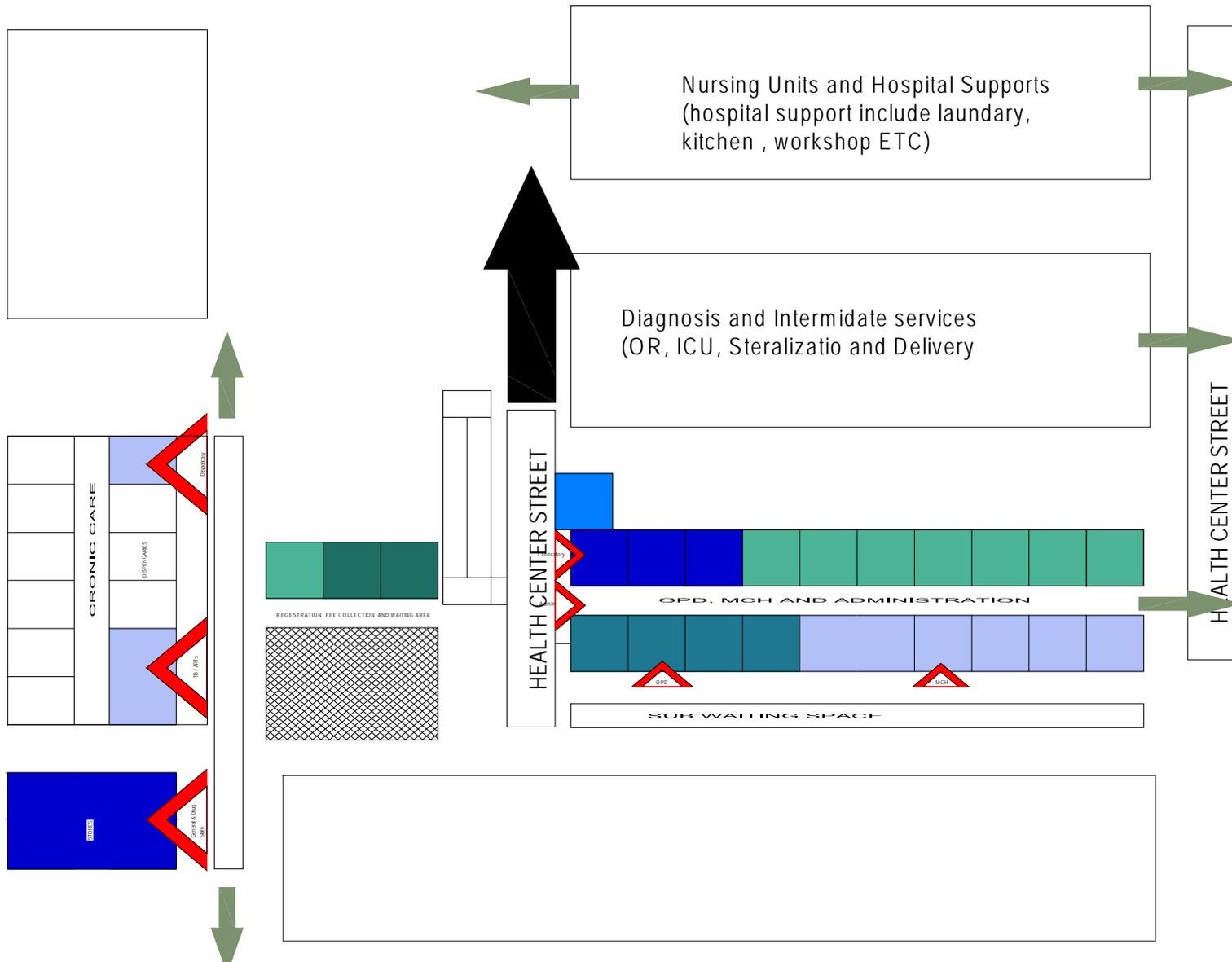
# Details of Modular Modification



# 2008 Model Design (1018 m2)



# Modification 1



# Modification 2

