Project Proposal for

COVID-19 PANDEMIC PREVENTION DESIGN CHALLENGE (CPPDC)

SUBJECT: EEE154 - ENGINEERING DRAWING
SECTION: 1

GROUP MEMBERS:

1. NAFIUL ISLAM – ID: 1611153042
2. ZARIN SUBAH – ID: 1612436042
3. MD RASHAD TANJIM– ID: 1620952042

Submitted to:

INSTRUCTOR: AKID ORNOB
NORTH SOUTH UNIVERSIY

Submission Date: April 22, 2020

Coronavirus disease 2019 (COVID-19) is an infectious disease caused by severe acute respiratory syndrome coronavirus. The panic of coronavirus infection is grappling the world day by day. After evolving from seafood and/or poultry market in China, Coronavirus outbreak has extended to almost all the countries around the world and the infected people are increasing day by day. Like, other countries are building especial hospitals for coronavirus that ensures a negative pressure room and having intensive care units (ICUs) equipped with ventilators. So, In Bangladesh, we also need to build this kind of hospital. For that purpose, we are trying to design a hospital that has all those necessary things, and so on.

Selected Topic & Group Members:

We will work on the number a. "Facility design (floor plan) of COVID-19 patient hospital".

Group Members:

1. Nafiul Islam - ID: 1611153042

2. Zarin Subah - ID: 1612436042

3. MD Rashad Tanjim- ID: 1620952042

Implementation:

Hospital architecture is a quite spacious and full of amenities and can be built using maps and plans of design with proper architecture floor plan. Mainly, a hospital having different units are a multistory building with complex architecture layout. We will design a model using AutoCAD

which will give 2D architectural visualizations designed to interact with architectural design. Rooms will be designed with different tools and commands such as an array, mirror, trim. We will use an array to repeat different designed blocks like beds, doors, and windows for room planning and some of them will also be included as an external reference. Different layers will be used for developing the main floor overview which will cover with a shell around as building and finalize as the building of the hospital. Here is our pre-implementation plan of the diagram of a hospital mainly for those patients who are affected form COVID-19.
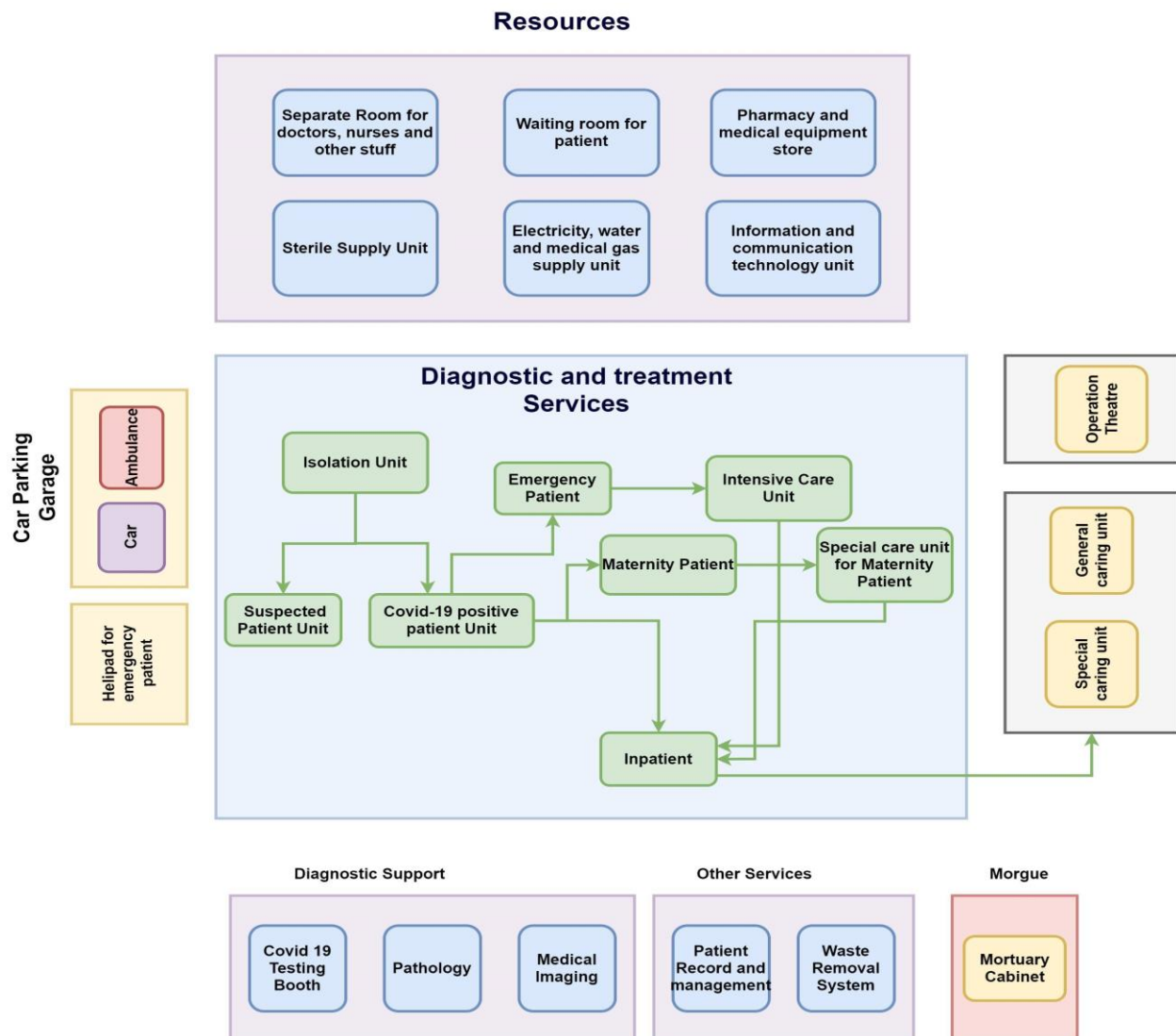

Figure: Hospital Floor Diagram