



ANOTHER VIEW ON ENGINEERING

# AL SAHER HOSPITAL





**Estimated cost for the remaining works at Al Saher Hospital (USD)**

<b>Arch works</b>	
1	Providing and installing floor marble
2	Providing and installing floor linoleum
3	Providing and installing linoleum skirtings
4	Providing and installing operations linoleum
5	Providing and installing operations linoleum skirtings
6	Providing and executing acrylic paint
7	Providing and executing epoxy paint
8	Providing and executing plastic paint
9	Providing and installing aluminum Entrance doors
10	Providing and installing acoustic ceiling tiles 60x60cm
11	Providing and installing lead for reinforcing walls
<b>Arch Works Sub Total</b>	
<b>150000</b>	
<b>Elec works</b>	
1	providing and installing fluorescent lighting fixture with protection degree
2	providing and installing fluorescent lighting fixture with protection degree with blades
3	providing and installing fluorescent lighting fixture IP20 with protection degree free ray
4	fluorescent emergency lighting fixture 2x8W
5	ceiling lamp 1x100W
6	patient bed suply unit
7	fluorescent false ceiling lighting fixture 2x36W
8	halogen spotlight 1x50W 12V
9	lavatory lighting fixture
10	impermeable incandescent ceiling light fixture 100W
11	O.R. lighting fixture
12	sterilization room lighting fixture
13	hidden incandescent wall nightlight fixture 15W
14	fluorescent lighting fixture 4*18 w protection degree IP20



15	fluorescent lighting fixture 4*18 w protection degree IP21 for false ceiling
16	fluorescent impermeable lighting fixture 1*36 w protection degree IP45
17	providing and installing an transformer to 1000KVA
18	Providing and installing a exchange unit to 460KVA
19	providing and installing condenser for improving ability factor 200KVAR
20	providing and installing UPS unit 50KVA
21	providing and installing switchpanel with ability up to 200/10
22	providing and installing fire alarm system with a 12 area ability.
23	Fire Alarm System
24	Smoke detectors
25	Heat sensors
26	Manual pump
27	Flasher
<b>Elec Works Sub Total</b>	
<b>550000</b>	
<b>Mech works</b>	
1	Cold water Chiller
2	Air treatment unit ( 20 Pieces)
3	Providing and installing Fancoil equipped with cold and hot coil and two triple valves with all valves, and flexible extensions with all accessories
4	Diffuser with damper 40x40cm
5	Diffuser without damper 40x40cm
6	Providing and installing exhust fan with motor and box and base
<b>Mech Works Sub Total</b>	
<b>588000</b>	



<b>Plumbing works</b>	
1	Lavatory with mixer
2	Kitchen sink with mixer
3	Bathtub with mixer
4	Shower with mixer
5	Toilet with mixer
6	Toilet with mixer and ejection
7	Lavatory with mixer
8	Abundance horizontal pump
9	hydrophore 500 Liter
<b>Plumbing Works Sub Total</b>	
<b>45000</b>	
<b>Elevator works</b>	
<b>Elevator works Sub Total</b>	
<b>187600</b>	
<b>Site Works</b>	
1	Concret works
2	sidewalk works+ streets
3	Wooden works
4	Aluminum works
5	Fence works
6	General site Electrical works
7	Mechanical room works +cost of labor
<b>Site works Sub Total</b>	
<b>270000</b>	
<b>Total (USD)</b>	
<b>1790600</b>	



## HOSPITAL DISCRPTION

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**Al Saher hospital placed in khabab, Daraa province, on 33851 m2 land, which can be reached from Damascus Daraa main road: The hospital consists of main building and service blocks, with total area 6675 m2.**

### **1- Main building:**

The building consists of 3 floors: Basement, Ground floor and first floor. It designed on possibility to add another floor in the future.

It can contain 72 beds and more.

#### **• Basement: (2438m2)**

The basement can be reached by the main or the side stairs, elevator or ramp and it consists of the hospital service sections:

- Sterilization department
- Kitchen.
- Laundry.
- Workers Restaurant.
- Changing rooms.
- Mechanical Rooms .
- Medical Gas Station .
- 2 Multipurpose Halls .
- Physical treatment dept .
- Warehouse .
- Morgue Rooms.
- Service Section.

#### **• Ground Floor (2285 m2):**

The ground floor can be reached from its entrance or the main hall and consists of 5 specialist clinics and laboratory.

It has 3 entrances: the main entrance of the building, patient out-clinic entrance, emergency entrance. And it contains the medical services:

- Main hall with reception and telephone operator.
- Patient out-clinic department.
- Pediatric department:

Consists of 2 labor rooms, **Delivery dept** , **Chidren section 5 rooms & necessary service.**

It has a direct contact with the operating department.



## HOSPITAL DISCRPTION

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- **Ophthalmic Dept**
- **Intensive care department:**  
Consists of ICU-CCU. It directly linked with the operating and the emergency departments.
- **Emergency department:**  
It can be reached from its entrance or the main hall, consists of emergency room, gypsum room, and doctor room which has direct contact with x-ray room and CCU.
- **Radiology & Endoscopy**  
Consists of X-ray, mammogram, echo, C.T. scan, R & F, development reading and printing room.
- **Administrator department:**  
Consists of admission, accounting and secretary.
- **Pharmacy.**
- **First floor (1952 m2):**  
Consists of patient rooms, doctor and nurse rooms, waiting hall with buffet and W.C service, Doctor meeting room, service section contains (clean store, dirty store, special both rooms).
  
- 2- Service blocks:**
  - Transform centre.
  - Generators.
  - Diesel tanks, water tanks.
  - Pumping room.
  - Parking for 30 cars.
  - Green areas.



## MEDICAL EQUIPMENTS STUDY

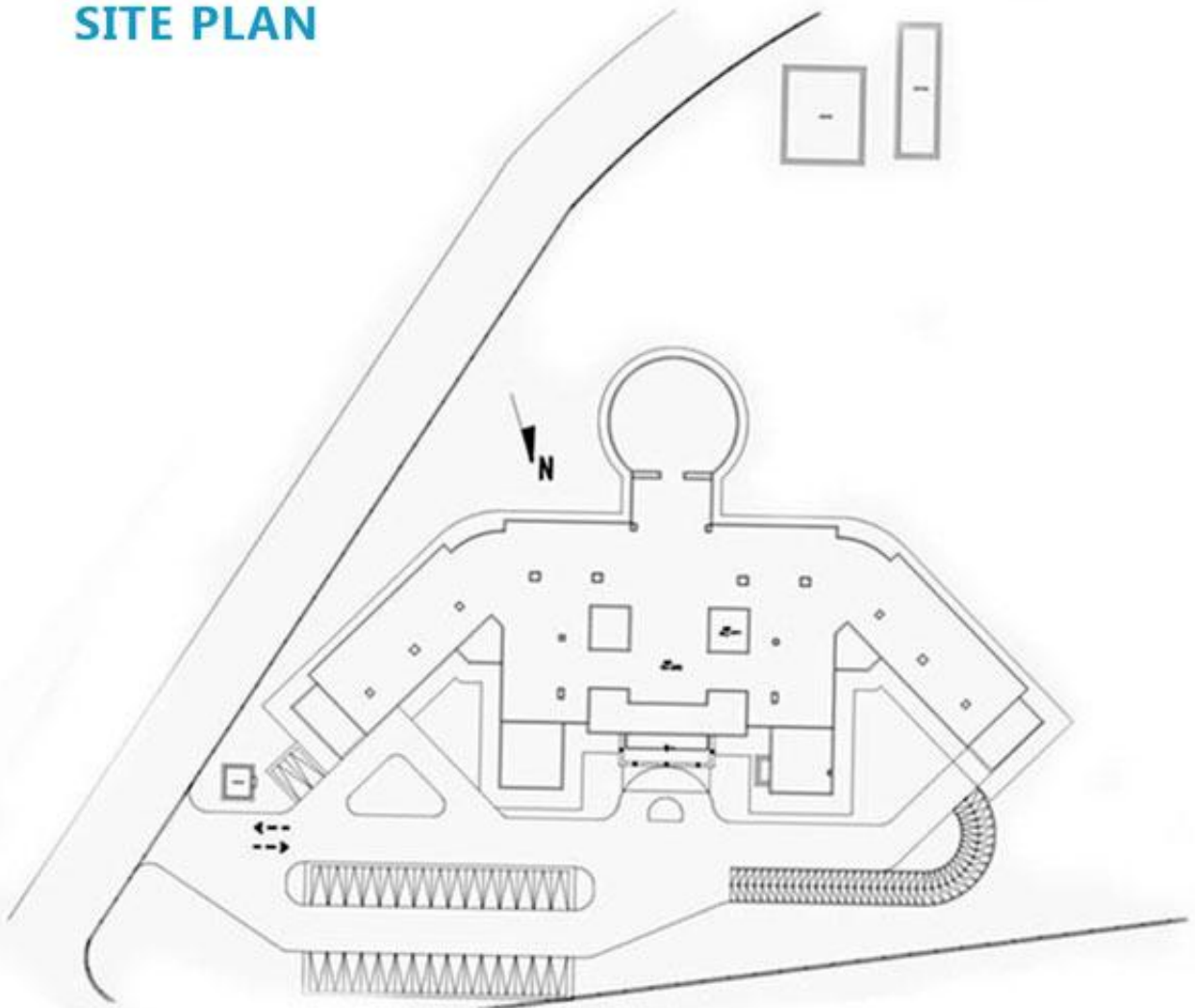
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**Technical Study Of The Hospital was performed keeping the rounded shape of operation theatre as the following:**

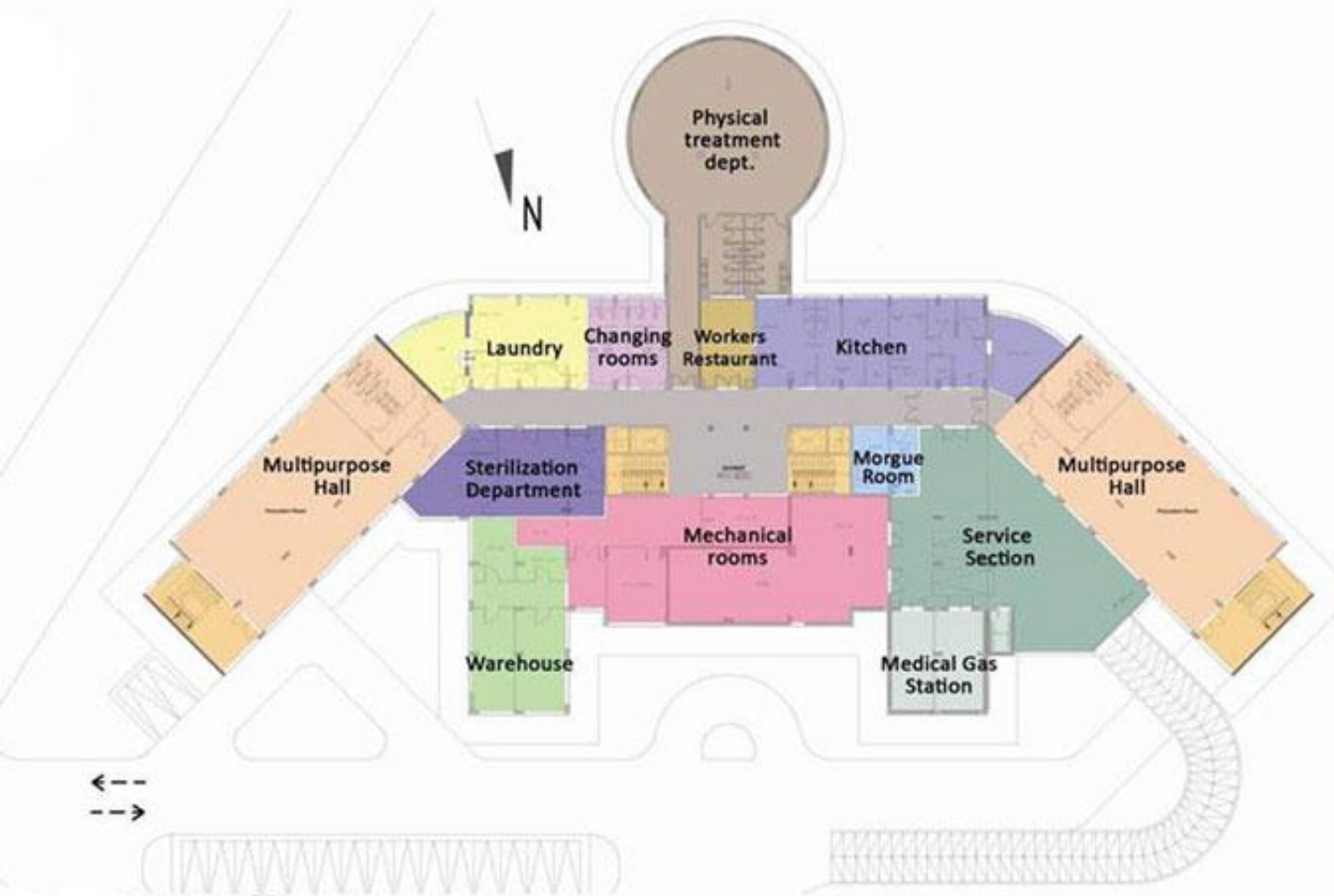
- 1 -Administration and medical activities altogether are at one floor away from patient's floor.
- 2- Total hospital beds was increased from 43 to 55 beds.
- 3 -Laundry, kitchen and sterilization sections are made ready to accept an extra patient's bed floor of 45 beds, in addition to people groups coming from old-age and celebration hallrooms.
- 4- Surgical intensive care unit beds were increased from 4 to 6 beds as international norms instructions.
- 5- A cardiac intensive care unit with 4 beds capacity.
- 6- Separate well-equipped sister's section was prepared.
- 7- Medical staff residency is available.
- 8- conference and meeting hallrooms are available.
- 9- Elevators are available.
- 10- Servant-changing rooms are available.
- 11- Obstetric operation room is available and connected with labor rooms.
- 12- Obstetrician and midwife s room was prepared beside labor rooms.
- 13-There are two labor rooms connected with Obs. operation room.
- 14- Sterile culture unit at laboratory is available.
- 15- New born bed rooms, Incubator room and Pediatrician room are connected together.
- 16- Six out-patient clinics including Ophthalmogy and Gynecology.
- 17- **X-ray Dept.** all radio graphic activities are included (echo, C.T. Scan, Mamogram, Simple and radio Opaque) as ell as Head Dept. Office, Development, result reading and printing rooms.
- 18- Laundry unit was prepared big enough to contain all different facilities of hospital sections.
- 19- Central sterilization unit was prepared beside laundry as a separate unit.
- 10- Emergency Dept. was designed as separate unit while is still linked with other facilities.



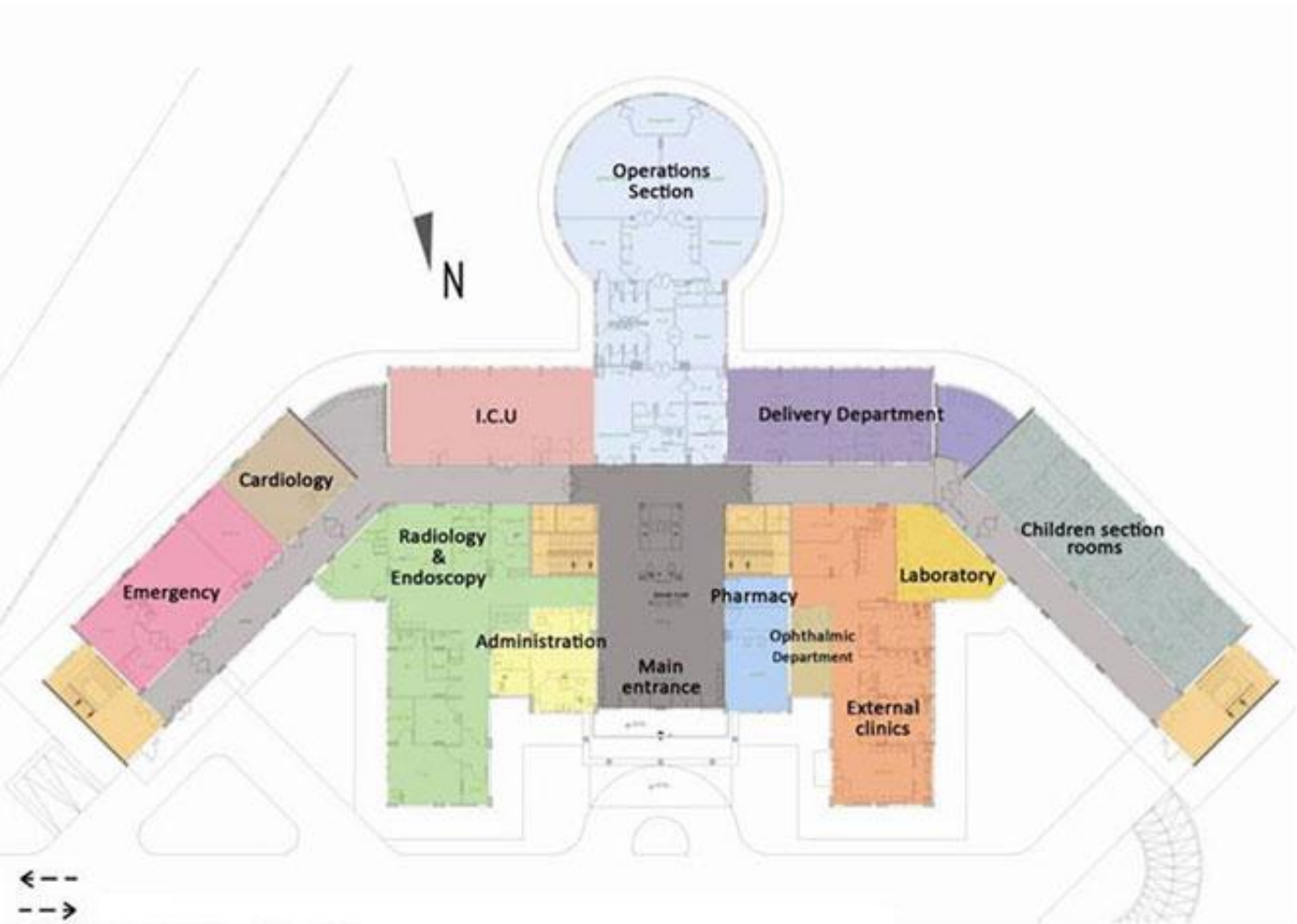
## SITE PLAN



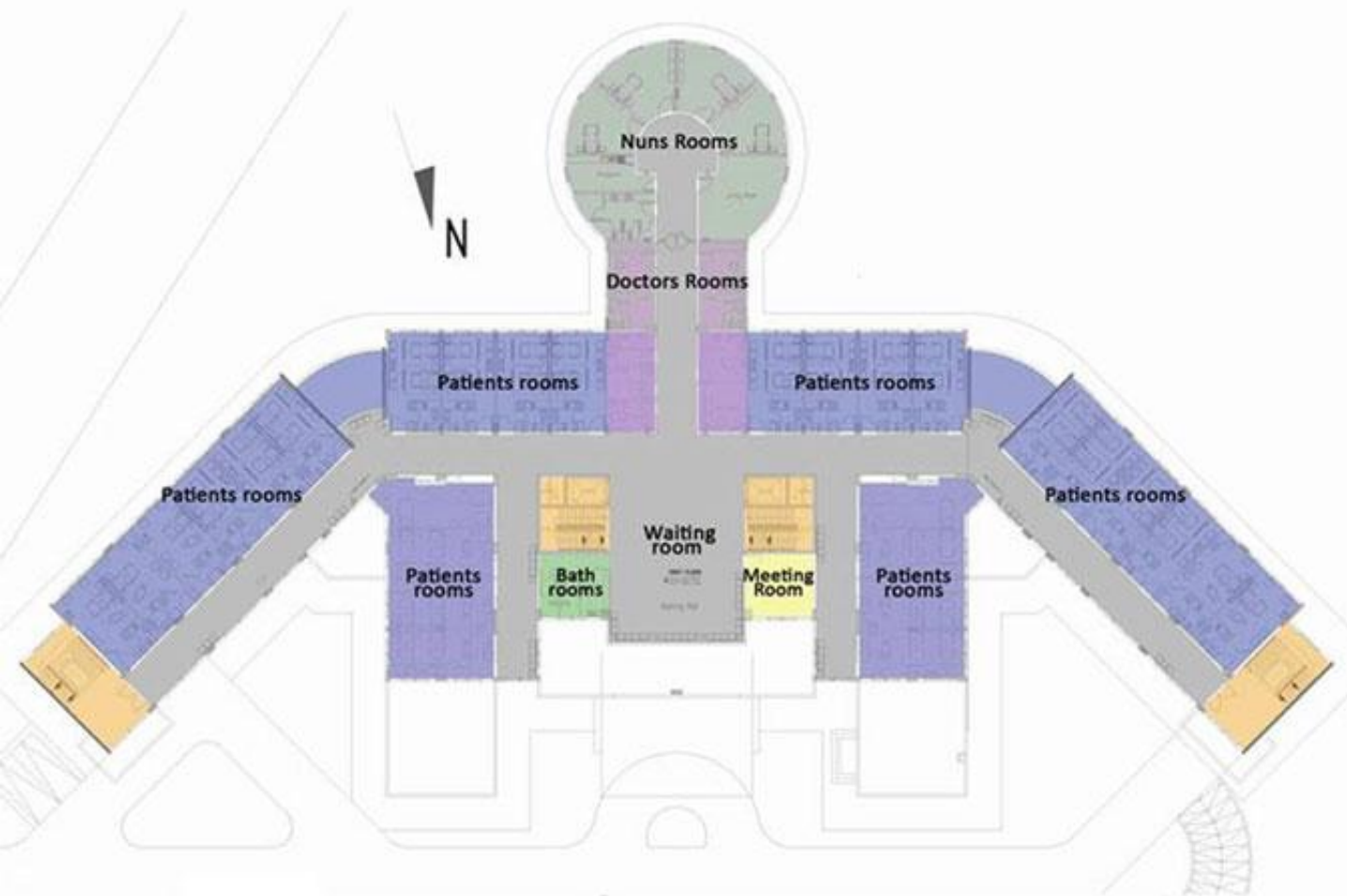




## BASEMENT PLAN



## GROUND FLOOR PLAN



## FIRST FLOOR PLAN