

**Nanjing Public Health Care Center, Nanjing, China**

Project location: Jiangning District, Nanjing  
 Client: Nanjing Public Medical Center  
 Cost: 860 million  
 Design time: 2012.12  
 Construction time: 2014-2015  
 Task: Architectural design, Medical design  
 Chair architect: Vincent Zhang  
 Design team: Ye Wang, Josef Kalcik

Embraced by surrounding hills, Nanjing Public Health Care Center is located in the east of the Nanjing city. With the site area of 120,000m<sup>2</sup> and total floor area of 150,000m<sup>2</sup>, it has the design capacity of 1,200 beds. And the overall cost is about 1.05 billion RMB.

The project is uniquely characterized by the mountainous topology and the required strict separation of clean and soiled areas. As part of Mr. Vincent Zhang's long-lasting effort to gardenized architecture, the project manages to create recovery gardens by making full use of the topological condition, while satisfying the requirement without compromise.

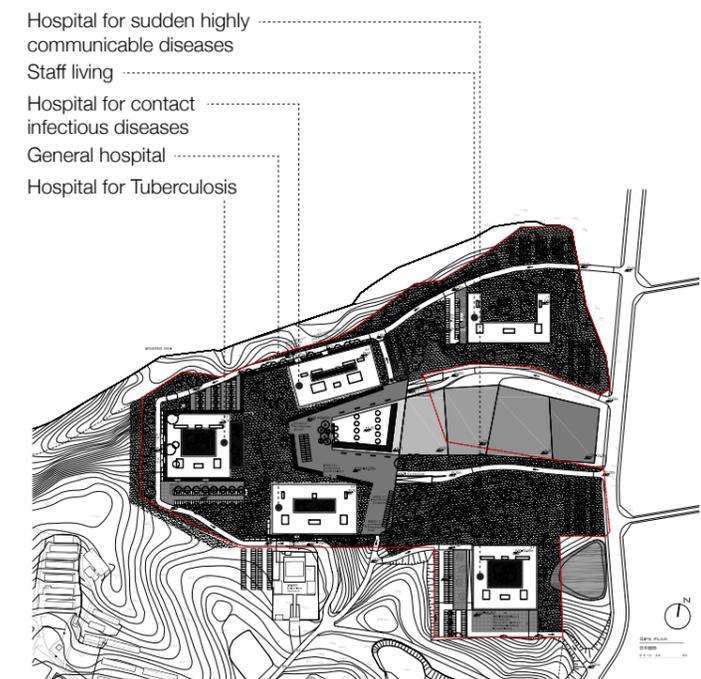
The group of buildings consists of a core medical area, an emergency area for outbreaks of infectious diseases and a quarantined area for staff. The core medical area is further divide into a general hospital, a hospital for respiratory infectious diseases and one for contact infectious diseases. The hospital trio is connected by a unified med-tech service module underneath.

Such organization on the one hand facilitates the separation of treatment for different infectious diseases, and on the other hand maximizes the sharing of medical resource among all of them. All the logistic areas are located underground.

Except for the department for outbreaks of infectious diseases, which is enclosed by a separate valley, all the buildings are embraced by a broad valley running east-west with beautiful waterfront and mountain landscapes.

The difference in latitude is carefully utilized for the difference in functions. The inner ring path and central plaza near the valley bottom are clean areas for the entrance of staff and patient of general hospital; while the entrances for patients of infectious diseases are located by the outer ring path on a greater altitude. The configuration guarantees that the clean and unclean flow lines never cross or interrupt even inside of buildings.

The light-weight wave-shaped external sun shade provide the interior with ambient light. It serves both for securing of privacy and reducing of energy consumption.



NORTH-EAST BIRD VIEW



EAST VIEW (MAIN ENTRANCE VIEW)



SOUTH-WEST VIEW TO HOSPITAL FOR TUBERCULOSIS



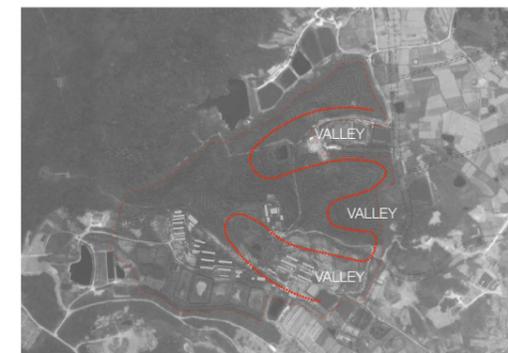
SOUTH-WEST BIRD VIEW



**FACADE DETAIL**  
The light-weight wave-shaped external sun shade provide the interior with ambient light. It serves both for securing of privacy and reducing of energy consumption.



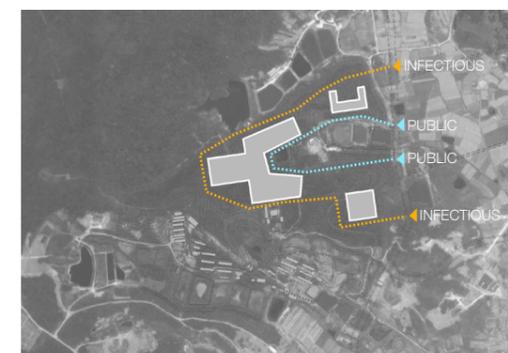
NORTH-EAST BIRD VIEW



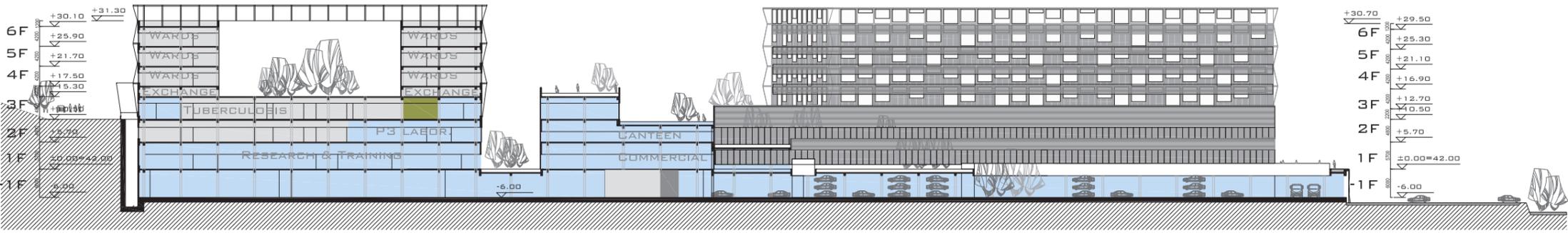
**VALLEYS**  
The site is higher in the west and lower in the east. It is composed, from north to south, by three beautiful valleys running from east to west.



**BARRIERS**  
The triple barriers from two valleys serve both the function of isolating the medical building form other areas of Qinglong Mountain, and the function of minimizing the risk of contaminating the whole medical center during the outbreaks of infectious diseases. The main hospital trio is also clear separated above while connected by a unified med-tech service module underneath.



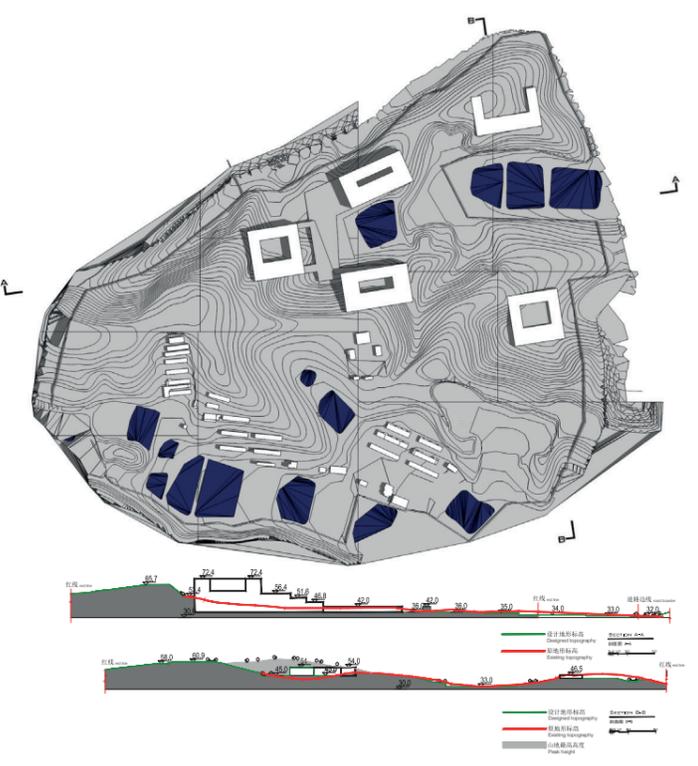
**HEIGHT DIFFERENCES**  
The natural height difference of the mountain is used for a thorough separation between infectious non-infectious entrances within the core medical area. A central plaza is created at the bottom of the valley for non-infectious general medical area as well as research, teaching and administration areas. The entrances for infectious areas are located in the relatively isolated periphery of the site with higher altitude. Such layout has the benefit of preventing cross contamination.



SECTION 1-1



MAIN ENTRANCE PLAZA



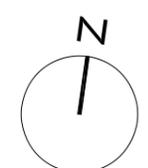
ELEVATION DESIGN

- 洁区 Clean area
- 医院级污区 Soiled area\_hospital grade
- 传染病级污区 Soiled area\_infectious disease grade
- 消毒回收带 Sterilization&recycling zone
- 消毒通道 Sterilized corridor
- 洁物交通核 Traffic core\_clean goods
- 污物交通核 Traffic core\_soiled goods



B1 FLOOR PLAN

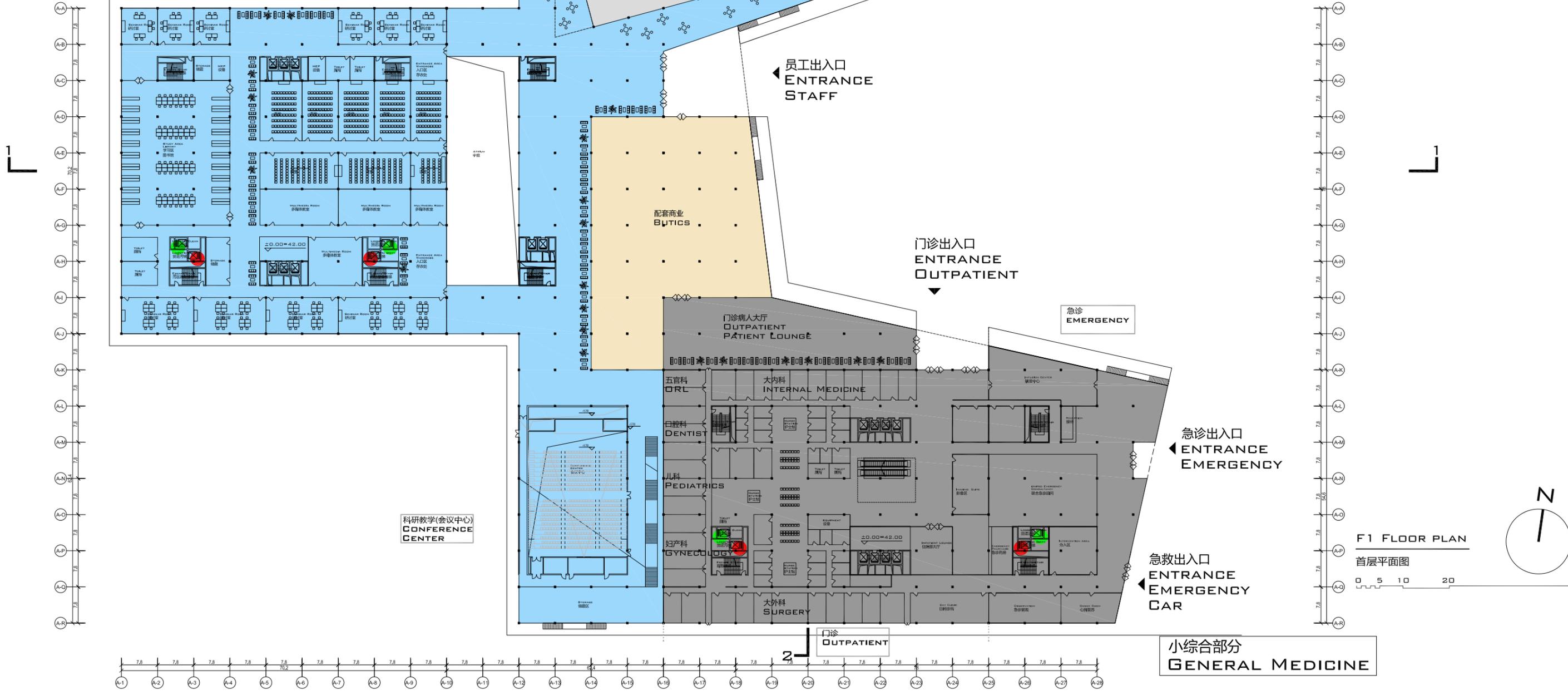
地下一层平面图



- 洁区 Clean area
- 医院级污区 Soiled area\_hospital grade
- 传染病级污区 Soiled area\_infectious disease grade
- 消毒隔离带 Sterilization&recycling zone
- 消毒通道 Sterilized corridor
- 洁物交通核 Traffic core\_clean goods
- 污物交通核 Traffic core\_soiled goods
- 商业 Commerce

肝炎科,杂病科,皮肤病科  
HEPATITIS,  
MISCELLANEOUS DISEASES  
SKIN DISEASES

科研教学区  
RESEARCH&TRAINING



医技  
MEDICAL  
TECHNOLOGY

医技(皮肤)  
MEDICAL  
TECHNOLOGY

医技(杂病)  
MEDICAL  
TECHNOLOGY

血透  
TRANSFUSION  
BLOOD

员工出入口  
ENTRANCE  
STAFF

门诊出入口  
ENTRANCE  
OUTPATIENT

急诊  
EMERGENCY

急诊出入口  
ENTRANCE  
EMERGENCY

急救出入口  
ENTRANCE  
EMERGENCY  
CAR

科研教学(会议中心)  
CONFERENCE  
CENTER

配套商业  
BUTICS

门诊病人大厅  
OUTPATIENT  
PATIENT LOUNGE

五官科  
ORL

大内科  
INTERNAL MEDICINE

口腔科  
DENTIST

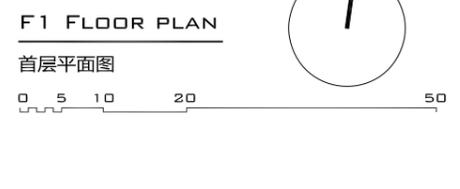
儿科  
PEDIATRICS

妇产科  
GYNECOLOGY

大外科  
SURGERY

门诊  
OUTPATIENT

小综合部分  
GENERAL MEDICINE



- 洁区 Clean area
- 医院级污区 Soiled area\_hospital grade
- 传染病级污区 Soiled area\_infectious disease grade
- 消毒隔离带 Sterilization&recycling zone
- 消毒通道 Sterilized corridor
- 洁物交通核 Traffic core\_clean goods
- 污物交通核 Traffic core\_soiled goods

肝炎科,杂病科,皮肤病科  
HEPATITIS,  
MISCELLANEOUS DISEASES  
SKIN DISEASES

医生来访者出入口  
ENTRANCE  
DOCTOR/  
VISTOR

门急诊,住院部出入口  
ENTRANCE/INPATIENT  
EMERGENCY

医技  
MEDICAL  
TECHNOLOGY

肝炎病房(1护理单元)  
INPATIENT  
HEPATITIS  
(1 WARD)

结核科  
TUBERCULOSIS

医技  
MEDICAL  
TECHNOLOGY

行政管理区  
ADMINISTRATION

行政管理(职工食堂,咖啡)  
ADMINISTRATION  
(CANTEEN, CAFE)

平台  
TERRACE

行政管理(办公)  
ADMINISTRATION  
(OFFICES)

科研教学(P3实验室)  
P3  
LABORATORY

科研教学区  
RESEARCH&TRAINING

F1

F2

功能诊断  
FUNCTIONAL  
DIAGNOSTIC

高压氧舱  
HYPERBARIC  
CHAMBER

医技区(检验科)  
LABORATORIES

放射治疗区  
RADIO-  
THERAPY

医技区(影像中心)  
IMAGING  
SUITE

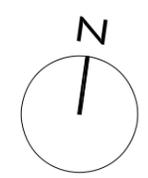
小综合部分  
GENERAL MEDICINE

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F2 FLOOR PLAN  
二层平面图



- 洁区 Clean area
- 医院级污区 Soiled area\_hospital grade
- 传染病级污区 Soiled area\_infectious disease grade
- 消毒隔离带 Sterilization&recycling zone
- 消毒通道 Sterilized corridor
- 洁物交通核 Traffic core\_clean goods
- 污物交通核 Traffic core\_soiled goods

肝炎科,杂病科,皮肤病科  
**HEPATITIS,  
 MISCELLANEOUS DISEASES  
 SKIN DISEASES**

肝炎病房(2护理单元)  
**INPATIENT  
 HEPATITIS  
 (2 WARDS)**

门诊  
**OUTPATIENT**

结核科  
**TUBERCULOSIS**

平台  
**TERRACE**

行政管理(办公)  
**ADMINISTRATION  
 (OFFICES)**

医生来访者出入口  
**ENTRANCE  
 DOCTOR/  
 VISTOR**

急诊出入口  
**ENTRANCE  
 EMERGENCY**

急诊  
**EMERGENCY**

急救出入口  
**ENTRANCE  
 EMERGENCY  
 CAR**

门诊出入口  
**ENTRANCE  
 OUTPATIENT**

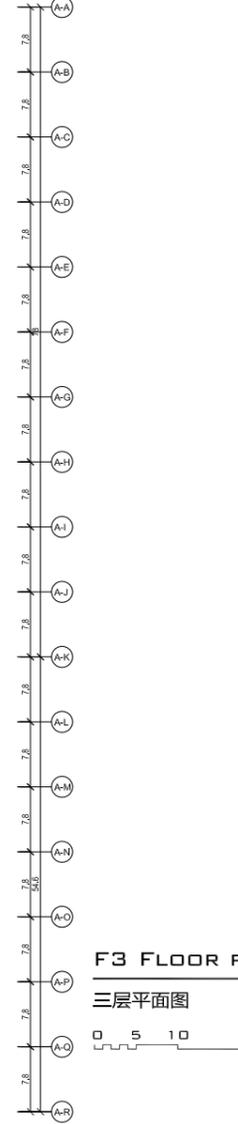
平台  
**TERRACE**

重症监护病房  
**ICU 33Beds**

医技区(手术室)  
**MED-TECH  
 (OP ROOMS)**

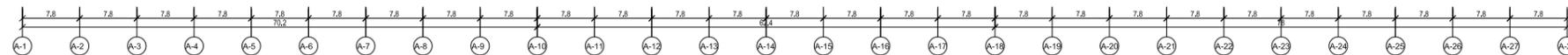
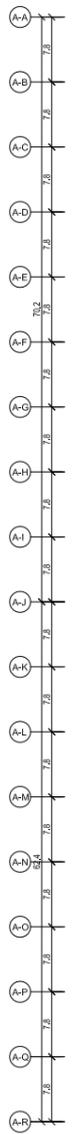
医技区(病理科)  
**PATHOLOGY**

小综合部分  
**GENERAL MEDICINE**



F3 FLOOR PLAN

三层平面图



- 洁区 Clean area
- 医院级污区 Soiled area\_hospital grade
- 传染病级污区 Soiled area\_infectious disease grade
- 消毒隔离带 Sterilization&recycling zone
- 消毒通道 Sterilized corridor
- 洁物交通核 Traffic core\_clean goods
- 污物交通核 Traffic core\_soiled goods

肝炎科,杂病科,皮肤病科  
**HEPATITIS,  
 MISCELLANEOUS DISEASES  
 SKIN DISEASES**

肝炎病房(2护理单元)  
**INPATIENT  
 HEPATITIS  
 (2 WARD)**

住院部(2护理单元)  
**INPATIENT  
 (2 WARD)**

结核科  
**TUBERCULOSIS**

平台  
**TERRACE**

住院部大厅  
**INPATIENT  
 LOUNGE**

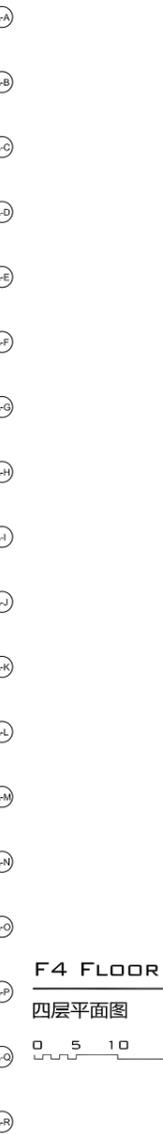
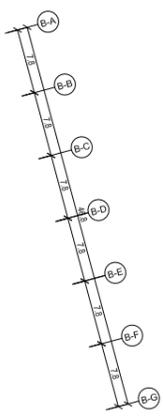
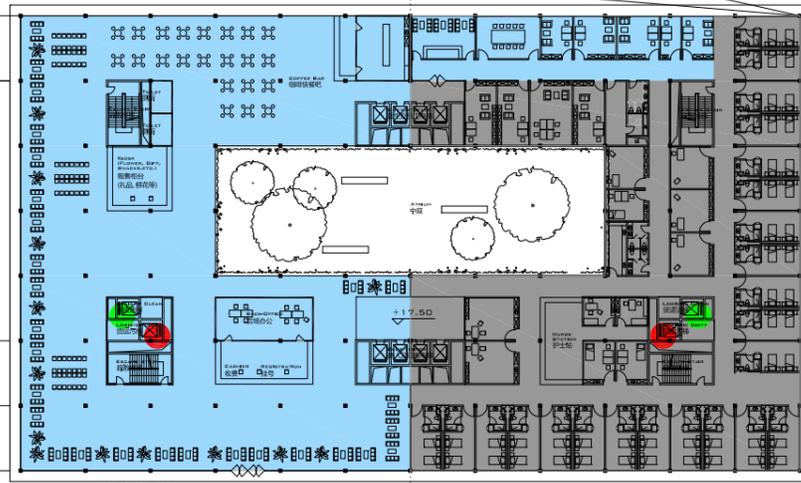
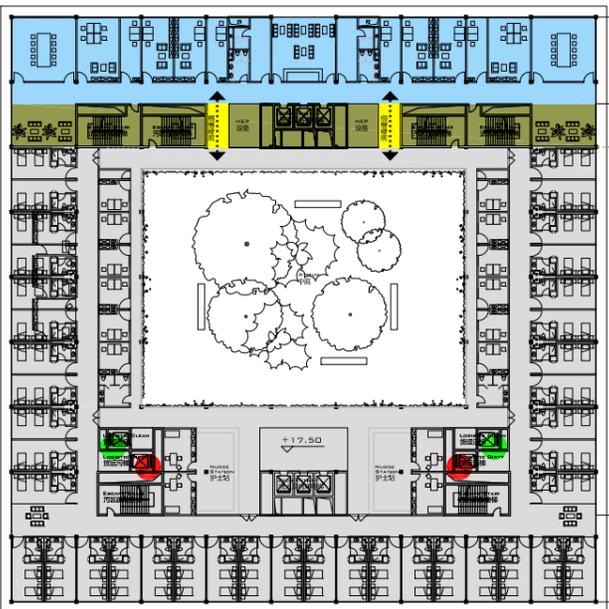
住院部(1护理单元)  
**INPATIENT  
 (1 WARD)**

小综合部分  
**GENERAL MEDICINE**

住院部出入口  
**ENTRANCE INPATIENT**

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F4 FLOOR PLAN

四层平面图



- 洁区 Clean area
- 医院级污区 Soiled area\_hospital grade
- 传染病级污区 Soiled area\_infectious disease grade
- 消毒隔离带 Sterilization&recycling zone
- 消毒通道 Sterilized corridor
- 洁物交通核 Traffic core\_clean goods
- 污物交通核 Traffic core\_soiled goods

肝炎科,杂病科,皮肤病科  
**HEPATITIS,  
 MISCELLANEOUS DISEASES  
 SKIN DISEASES**

皮肤病(2护理单元)  
**SKIN DISEASES  
 (2 WARDS)**

住院部(2护理单元)  
**INPATIENT  
 (2 WARDS)**

结核科  
**TUBERCULOSIS**

住院部(2护理单元)  
**INPATIENT  
 (2 WARDS)**

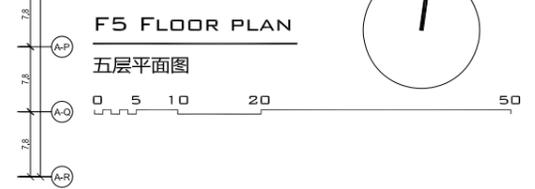
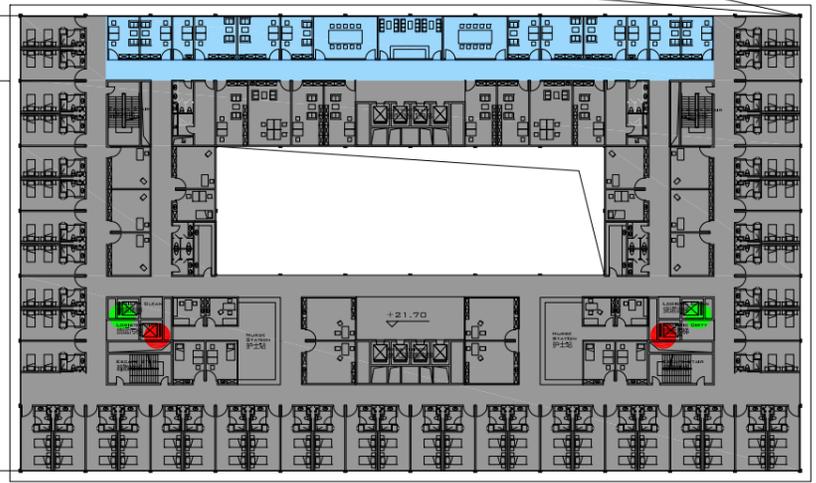
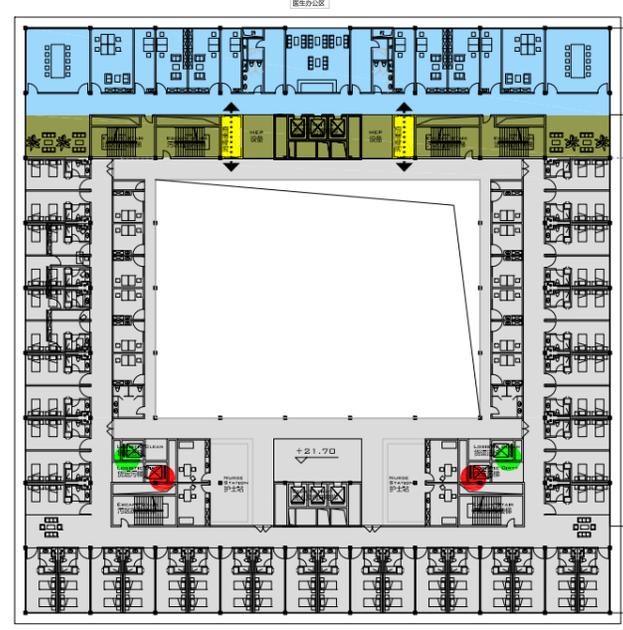
小综合部分  
**GENERAL MEDICINE**

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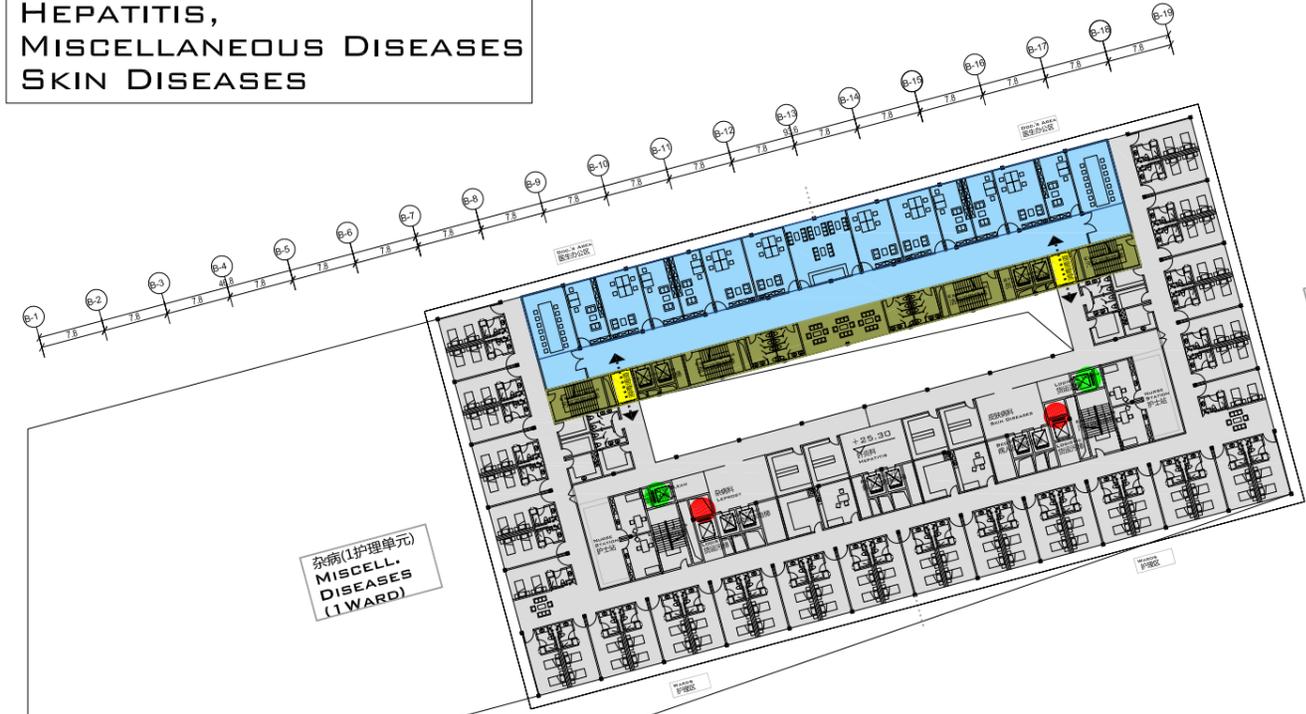
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F5 FLOOR PLAN  
 五层平面图

- 洁区 Clean area
- 医院级污区 Soiled area\_hospital grade
- 传染病级污区 Soiled area\_infectious disease grade
- 消毒隔离带 Sterilization&recycling zone
- 消毒通道 Sterilized corridor
- 洁物交通核 Traffic core\_clean goods
- 污物交通核 Traffic core\_soiled goods

肝炎科,杂病科,皮肤病科  
**HEPATITIS,  
 MISCELLANEOUS DISEASES  
 SKIN DISEASES**

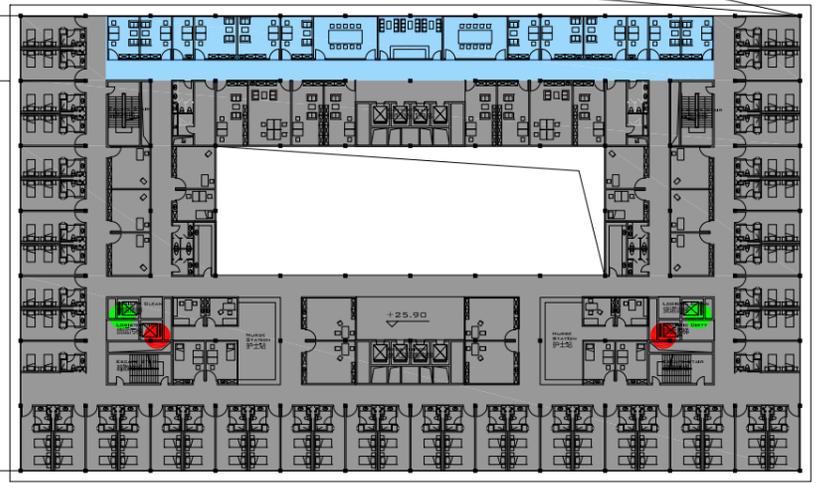


皮肤病(1护理单元)  
**SKIN DISEASES  
 (1 WARD)**

杂病(1护理单元)  
**MISCELL.  
 DISEASES  
 (1 WARD)**

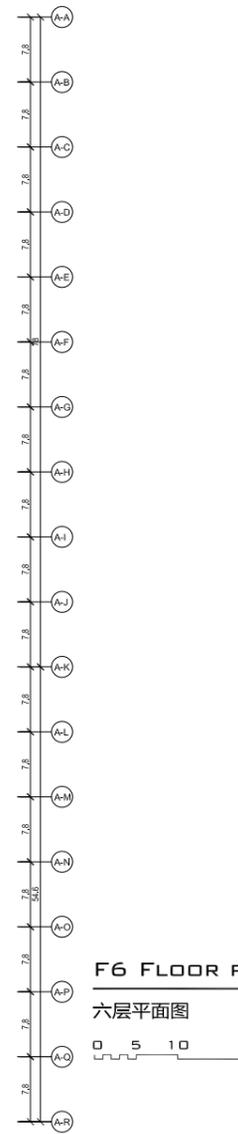
住院部(2护理单元)  
**INPATIENT  
 (2 WARD)**

结核科  
**TUBERCULOSIS**



住院部(2护理单元)  
**INPATIENT  
 (2 WARD)**

小综合部分  
**GENERAL MEDICINE**



**F6 FLOOR PLAN**  
 六层平面图

