

WORK SAMPLES

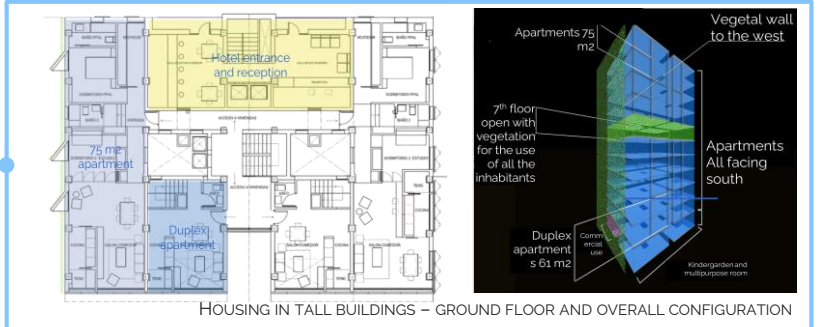
BIOCLIMATIC URBAN REVITALISATION IN MADRID, SPAIN

Architecture • Urban redevelopment • Sustainable cities • Academic project

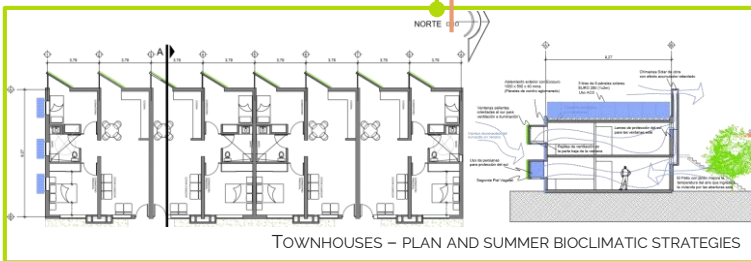


NEIGHBOURHOOD REVITALISATION - GENERAL PLAN

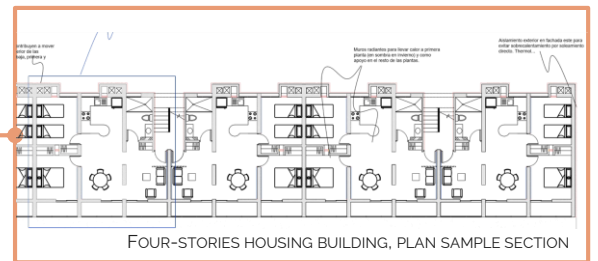
Urban neighbourhood revitalisation plan and redistribution of the living space of three different types of residential buildings to update their dimensions, include suitable living places for people with reduced mobility, and diversify the uses of the urban area. Technologies, materials and systems were selected specifically for the local climate and based on analyses of function and energy efficiency of the existing buildings.



HOUSING IN TALL BUILDINGS - GROUND FLOOR AND OVERALL CONFIGURATION



TOWNHOUSES - PLAN AND SUMMER BIOCLIMATIC STRATEGIES

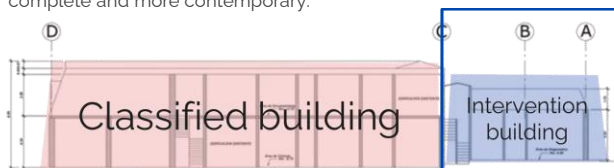


FOUR-STORIES HOUSING BUILDING, PLAN SAMPLE SECTION

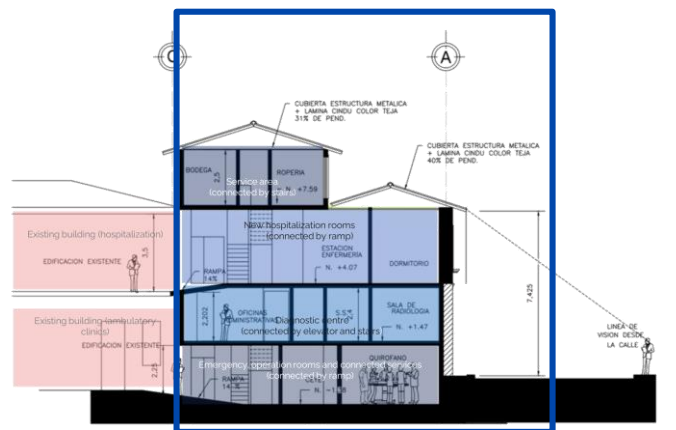
HOSPITAL EXPANSION IN A HISTORICAL CITY

Architecture • Institutional architecture

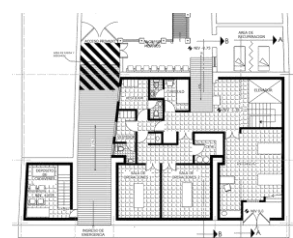
A small private hospital located in two adjoining 2-stories buildings –one classified for its historical value – needed an extension to complete its functional program. The intervention had to meet the regulations and limitations imposed by the office for the protection of the city's history and cultural heritage: full preservation for the classified building and facade and height regulations for the second one, because of its location within the historical limits of the city. The classified building was redistributed to optimize its use and a new 4-story high building substituting the original non-classified building was proposed for the expansion, maximizing the area available for the complementary services, turning the hospital into a complete and more contemporary.



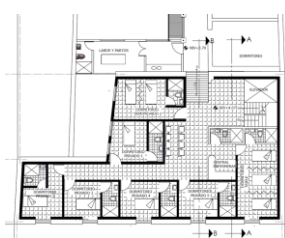
EXISTING BUILDING - SECTION



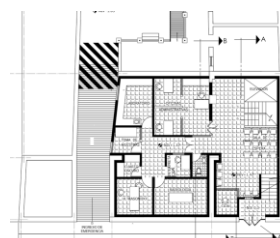
EXPANSION PROPOSAL - SECTION



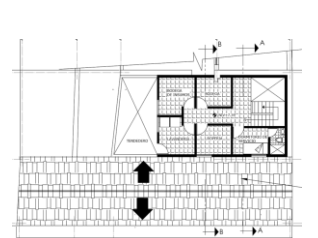
BASEMENT PLAN
Emergency entrance (ambulances), operation rooms, intensive care, observation room.



GROUND FLOOR PLAN
Radiology, ultrasound, laboratory with sample clinic, administrative offices and waiting room



SECOND FLOOR PLAN
Delivery room, hospitalization (single, double and triple rooms)



THIRD FLOOR PLAN - COMPLEMENTARY SERVICES
Storage, laundry room, clean linen room and service staff bedroom with bathroom

Since it is not possible to modify the precipitation patterns in the region, the most sensible course of action to avoid unnecessary exposure to natural disasters is to revisit the how cities are planned. Taking into account physical factors such as proximity to rivers, floodplains, preferential routes for debris flows, would go a long way in making safer cities in the future!