DOCKING THE STRIP

Hanyang Iron Plant Reconstruction Design

Site: Wuhan Hubei Instructor: Yuhou Yang Academy Year:2021 Fall Collaborate Work:with Que Zhang



Collaborate with zhang que

Hanyang Steel Works is China's heavy industry production base in the last century. However, for decades, its operation has also caused great damage to the surrounding environment. The natural ecology has been irreversibly damaged. This design aims to implant biological systems into the ruins of abandoned industrial plants through human intervention, so that nature can regain the right to speak. While achieving ecological sustainability, by organizing spaces where nature and architecture intersect each other, it promotes the re-harmonization of man and nature.

In order to make it more adaptable to the needs of people in the new era, my strategy is to install a new structure to divide it into smaller and more intimate spaces, and introduce new markets and agricultural functions. To me, the design enriched the old factory and made it meaningful again to the city. By turning the historic building from a vulnerable group under urban renewal to a new urban complex, we were able to address urban complexity and make it less overwhelming.

First obtained the main transverse axis by strengthening the orthogonality of the steel mill itself. The existing quilting structure provides us with restrictions and enables us to obtain the original reference. After connecting the existing important features in the site, we got the operable secondary axis. And derive parallel lines to echo the original grid structure.



HISTORY ANALYSIS





Turned into an isolated island in the city...



After the Hanyang Iron Factory was abandoned, high-rise residential and commercial buildings were built in the surrounding area, a new factory was built in Wuhan, and the old ruins became an isolated urban island.



SITE ANALYSIS

The renovation strategy of the site is to turn the steel mill into a cultural center serving the surrounding citizens; the renovated boiler plant, which was the core of the production process in the past, will be used as a cultural center after the renovation.



Abandoned Water Reservoir

STRIPS GENERATION





Huge Structure

Turn waste into new

Use defects to discover the

characteristics of old plant

components and re-value them.

Insert new diagonal strips

Set the core spaces New and old relationship established Dai Yuewen Portfolio

Refine existing original strips

Closed Enclosure



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FUCTION STRIPS

The ground floor is used as a public space for residents, the north side of the second floor is the exhibition hall, and the south side is the Agricultural Research Institute







2-2 section







The first floor is composed of market space and some service-oriented commercial spaces, such as restaurants, bookstores, gift shops, management offices, etc., which are mainly open to the public. There is a landscape axis in the middle, which reinforces the old architectural system.

Dai Yuewen Portfolio



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INTERSECTIONS



.These spaces are given different functions according to the different characteristics of the formThe interaction between the new and the old system can create a lot of interesting spaces

SECOND FLOOR PLAN

The north side of the second floor is used as an exhibition space, the south side is used as a research space, and the middle part is separated by a high-rise atrium. The arrangement of walls and column nets conforms to the new axis, while the central atrium and inner corridors follow the old building axis.



WuHan Hanyang Iron Plant Reconstruction Design

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GROUND FLOOR PLAN



1.Exhibition Entrance 2. Exist/Shop 3. Exhibition 5. Experimental Display 6. Dining Area 8.Agricultural Research Center 9. Research Office 10. Lecture Hall 11. Administration 12. Sharing corridor



collaborate with que zhang



The VERTICAL PLANTING

There are four vertical planting areas inside the building, and glass boxes are interspersed between the areas, breaking the old boundaries. The sight line of the corridor in the middle part can intersect with it, and the planting green plants inside the box also brings a healthy new green to the old industrial factory.





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