The relationship between urban planning and architectural design

Li Ping Xu1*, Jian Hua Li2, Ling Jiang Kong3, Jun Wei Sun4, Hai Peng Wang1
1 Shijiazhuang, Hebei Province 050000, China
2 Sanhe, Hebei Province 065200, China
3 Langfang, Hebei Province 065000, China
4 Cangzhou, Hebei Province 061000, China

Abstract: With the continuous expansion of the urban area in China, people pay more and more attention to the relationship between urban planning and construction design. Architectural design is aimed at indoor and outdoor space, its principle is to ensure the safety of the space and aesthetics, while urban planning for urban space design and layout. It can be said that architectural design is the micro-design of urban planning, and urban planning is a wide range of planning and design. This article outlines the relationship between urban planning and architectural design and puts forward some measures to reasonably adjust the relationship between of them.

Keywords: urban planning, architectural design, relationship

1 Introduction

Urban planning and architectural design are closely related. And in real life, the concept of organic integration of architectural design in urban planning can promote the healthy and steady development of urban construction. In addition, if the concept of urban planning is incorporated into the architectural design, the cultural thinking and cultural heritage in urban planning can be fully demonstrated, the characteristics of urban development can be reflected, promoting the rapid urban development.

2 The relationship between urban planning and architectural design

2.1 The difference between urban planning and architectural design

In general, there are many differences between the two, mainly in the following aspects[1]. First of all, from the design goal point of view, urban planning does not have a clear goal and its controllability is relatively strong, but architectural design has a clear goal and it is not only to meet the requirements of urban development, but also gives full play to its own function as a building. Therefore, architectural design requires rich architectural knowledge. Secondly, from the design process perspective, urban planning has a strategic goal. The main objective of urban planning is to optimize urban construction and promote sustainable development in cities based on the actual conditions in cities. Architectural design should be sufficient consider its own factors when designing, we must continue to improve their own factors in order to achieve design. Finally, from the design task perspective, urban planning is achieved through constant planning and design over a long period of time. Architectural design is mainly presented to people in the form of design task book.

2.2 The link between urban planning and architectural design

2.2.1 Architectural design is an important part of urban planning

The purpose of urban planning is to reasonably adjust and allocate resources such as infrastructure and environmental functions in cities, which will directly affect the city’s landscape, industrial distribution and economic investment. Scientific and reasonable urban planning can promote the rapid urban development[2]. Architectural design is a process to improve the construction technology, style, quality, etc. Building design should ensure that the use of construction projects, functions, etc. to meet the needs of social development, to ensure that the design style is consistent with the surrounding environment, at the same time, and to highlight their own design style. From the above, we can see that although the urban planning and architectural design in the design of the surface is independent, but the architectural design is an important part of urban planning, architectural design for urban planning services, the architectural design process should consider the style of urban planning.
2.2.2 Relationship between architectural design and urban planning in designing content

With economic development, people pay more and more attention to environmental issues, and people-oriented design concept is the pursuit of urban planning and architectural design. Therefore, the two have some similarities in design content, which are mainly reflected in the following aspects[3]. First, design content. Both should be considered the details of design space, structure, etc., in the selection of architectural design content should be based on urban planning, in strict accordance with the relevant provision of urban planning for architectural design work. Second, the design direction of development. With the development of economy, urban planning has been developed in a three-dimensional and systematic direction and architectural design has also been oriented toward environmental protection and landmarks. Urban planning has been paying more attention to the advantages of architectural design in terms of its design content and urban planning has also begun to emphasize urban planning in terms of design content. The relationship between the two in urban development has become more and more close. Finally, the design function has been emphasized. Architectural design should be based on urban planning, architectural design can promote the healthy and stable development of urban planning and enrich the content of urban planning. Therefore, the both should carefully consider each others design content when designing, so that the premise of harmonious development of urban planning and architectural design is to highlight their respective characteristics.

3 Measures to properly adjust of the relationship between the two

3.1 Architectural design should consider the requirements of urban planning

With the development of economic, the process of urbanization in China is accelerating constantly and the population in the cities is constantly increasing. Although a lot of labor force is added to the cities and the development of the urban economy is promoted, it also brings pressure on the urban planning work. In the process of urban planning, these laborers need to be provided with the same social resources and living environment as urban residents, so this requires a reasonable adjustment of various resources in the cities. While increasing the pressure on urban planning it has promoted the development of the cities. The architectural design should be coordinated with the urban planning, the design content should be consistent too. Individual architectural design embodies the overall effect of urban planning, which has a huge effect on urban planning. Urban planning can provide the basis for construction, which has a close contact with urban planning. Urban planning can provide some reference for architectural design. During the process of architectural design, the design work should be carried out according to the urban planning plan. It is necessary to study the environment around the building and urban planning environment in detail, from protecting the ecological environment, developing the urban economy and promoting the cultural development and other aspects, to plan the most suitable architectural design.

3.2 Improve the scientific nature of urban planning

The main content of urban planning is to study urban development and layout, and to set a direction for the development of urban, which is of great significance to urban management[4]. Urban development is closely related to urban planning. If the urban planning is more scientific, it can promote the healthy and stable development of the city. On the contrary, if urban planning is unreasonable, it will adversely affect the urban development. In order to ensure that urban planning is reasonable, the planning work should be based on the three principles of socialization, security and economy during urban planning. In the process of urban planning, the local economic level should be taken into account, to maximize the interests of all parties. In the process of urban planning, the local characteristics should be taken into account, in accordance with the above-mentioned three principles for urban planning, so as to promote the healthy development of the city.

3.3 Strengthen the architectural design

The main content of the urban planning is to scientific integration of urban land resources and space to promote the healthy and stable development of the city, and reasonable set of various construction projects. The focus of urban planning is to maintain social balance, and pay attention to the coordination and harmony of the city. Most city constructions are made up of many projects that are not related to each other. For example, in general, architectural design can be done in a very simple condition, requiring only one principal, one client, one a copy of the design and construction funds. From the performance point of view, architectural design is to show the requirements of the owners, ignoring the relationship between the respective emphasis and pay attention to the individual of architectural design.

3.4 Urban planning and architectural design should be coordinated

Although there is a certain difference between urban planning and architectural design, the mutual unification of the two will lay the foundation for urban development and promote the healthy and rapid development of cities[5]. The process of architectural design work should be strictly follow the relevant requirements of urban planning, fully understanding the release of urban planning and related policies, at the same time, ensuring that the design concept and objectives of architectural design and urban planning are
consistent. For example, a city in the urban planning work, decided to build commercial areas around the train station, on the basis of these design of the buildings to highlight the stylish, casual design style of buildings, to ensure that this design and urban planning coordination. Under normal circumstances, the planning process should refer to the original buildings in the region, according to the various regions of the city planning and design, thus contributing to the healthy development of the city. Therefore, architectural design should be based on the contents of urban planning, not only to ensure the harmony between the architectural design and the urban landscape, but also ensure that characteristics be highlight.

4 Conclusions
To sum up, there is not only a difference between urban planning and architectural design, but also a certain connection, interaction and influences to promote the healthy and rapid development of the city. Urban planning will directly affect the economic development of the city, and architectural design has a direct impact on people’s lives. Only scientifically dealing with the relationship between the two, can rationally adjust the urban resources, lay the foundation for the development of the city, improve the quality of people’s life, and achieve the goal of sustainable urban development.

Conflict of Interest Declaration
No conflict of interest was reported by the authors.

References