

The Application of Ecological Planning Concept in Landscape Design

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Abstract: In recent years, with the increasing emphasis on ecological and environmental issues in China, people's awareness of eco-environmental protection has gradually increased, and the requirements for landscape design are gradually becoming more ecological, which is largely required. The current landscape design should fully integrate and integrate the ecological planning concept, and strive to meet people's requirements for the harmonious development of people and nature to the greatest extent, and improve the people's satisfaction with the landscape design.

I. Introduction

At present, China has entered a new stage of historical development. Standing on a new historical starting point, how to deal with the relationship between man and nature, and achieving ecological development and sustainable goals has become a major challenge facing people. Integrating ecological planning concepts into landscape design can provide a comfortable and natural environment while dealing with ecological problems. Therefore, it is very realistic to conduct in-depth analysis of the application of ecological planning concepts in landscape design. significance.

Second, the reasons and design principles of incorporating ecological planning concepts into landscape design.

2. Reasons for incorporating ecological planning concepts into landscape design

2.1 The improvement of people's awareness of ecological environmental protection and the enhancement of demand diversification

In recent years, China has vigorously advocated the concept of building an ecological civilization that harmoniously develops between man and nature. It has played a good role and feedback throughout the country. The awareness of the people's ecological civilization is gradually increasing, and the attention to ecological and environmental issues is increasing. In this context, people have put forward more diversified needs for the design of landscapes. In addition to the leisure and entertainment functions, they should also embody the concept of ecological and environmental protection, embody the concept of harmonious development between man and nature, thus ensuring that people are At the same time, you can feel the harmonious beauty of natural development.

2.2 Ecological gardens play an important role in urban ecosystems

It should be clarified that ecological gardens occupy an important position in the ecosystem of a city. Ecological gardens have a prominent role in regulating the natural environment of the city. Therefore, the level of urban ecological garden construction and the quality of construction will greatly affect To the composition and development of an urban ecosystem, which further affects the city's ability and level of sustainable development. Good ecological garden construction can not only provide people with comfortable and convenient leisure and entertainment places, but also can greatly adjust the ecological functions of urban hydrology and temperature, while repairing the original ecosystem of the city. Create a new ecological environment. From the practice of urban development in China in recent years, China's urbanization is in a stage of rapid development. In this process, the urban ecosystem has been damaged to some extent. Therefore, the current

ecological planning is incorporated into the landscape design. The concept is conducive to alleviating many ecological and environmental problems brought about by the rapid urbanization process, providing a good ecological environment for the development of the city and improving people's living standards.

2.3 An inevitable requirement for promoting the concept of sustainable development

In recent years, China has vigorously advocated the concept of sustainable development and promoted the sustainable development mode. As a key component of China's development, the quality of sustainable development and the quality of its quality have largely determined the overall development quality of China. Level, therefore, the integration of ecological planning concepts into the landscape design makes it an important way and necessary means to continuously promote the concept of sustainable development. It should be clarified that in the development of the city, urban architecture occupies most of the development space, which has largely accumulated other development space such as ecological garden landscape, which is not conducive to the city to achieve a harmonious situation of harmonious development between man and nature. What's more, there have been problems such as the deterioration of the urban ecological environment and the lack of recreational and recreational public garden activities, and the city's ability to sustain development has been seriously affected and weakened. At present, deepening the concept of sustainable development, coordinating the economy, the relationship between population, resources and the environment has become the top priority of urban development tasks. From the perspective of long-term development, competition between cities is not only dependent on The speed of economic development and the size of GDP, but depends to a large extent on the quality of the urban ecological environment. A good urban ecological environment can provide people with a comfortable and pleasant living environment and living environment, and enhance the people. Life happiness and sense of acquisition, therefore, the current strengthening of ecological garden construction has become one of the important factors that most cities consider when constructing urban development strategies.

At present, the integration of ecological planning concepts into landscape design requires designers to take advantage of science and technology, take science and technology as the guide, seize the commanding heights of ecological development, and promote the development of urban landscape design by improving the technological content of ecological development. The improvement of scientific and technological content will ensure that the sustainable development of the city can promote the improvement of the overall development quality of the city, solve many problems faced in the process of urban development, and improve the overall competitiveness of urban development. From the perspective of long-term development, integrating ecological planning concepts into landscape design has become an inevitable requirement for deepening the concept of sustainable development. It can not only benefit the people of the contemporary era, but also meet the development needs of future generations. It has a major and far-reaching impact. effect.

3. Design principles for incorporating ecological planning concepts into landscape design

At this stage, the integration of ecological planning concepts into landscape design has become a common pursuit of many urban developments. In addition to having a strong ecological planning awareness, the city should also pay attention to the integration of ecological planning concepts in the process of garden landscape design. Following the design principles of the ecological planning concept, it is only on this basis that the design of the landscape can be effectively ensured that it conforms to the ecological planning development model and provides effective support for the sustainable development of the city. Specifically, the design principles that should be followed in integrating ecological planning concepts into landscape design have the following two aspects:

3.1 The principle of adapting to local conditions

It should be clarified that the development of a city has its own unique natural development

environment, and the natural development environment has strong stability characteristics. Therefore, in the process of integrating the ecological planning concept into the landscape design, the principle of adapting to local conditions should be followed and the place should be fully considered. The development of natural laws and ecological environment features, and strive to ensure that the design of the landscape is not to the greatest extent possible in order to pursue and reflect the concept of ecological planning and to force behavior that does not conform to the natural ecological environment of the city. Specifically, the principle of adapting to local conditions in the integration of ecological planning concepts in landscape design should be based on in-depth investigation of local natural environment characteristics, detailed analysis of local hydrology, ecological laws and topography, and geomorphological characteristics, through the Organic integration and coordination between factors to achieve the maximum degree of landscape design.

3.2 Scientific rational principle

The fundamental purpose of landscape design is to provide the people with a leisure and entertainment place that combines a good ecological environment with a beautiful natural environment. Therefore, in the process of garden landscape design, we must not only pay attention to the integration of ecological planning concepts, but also integrate The process of beautifying the city should also be achieved in the process. However, from the practice of urban landscape design in China in recent years, there are some cities that have to carry out large-scale transplantation of lawns and trees that are not suitable for local growth, in order to achieve the goal of “beautifying the city” regardless of the natural ecological development law. Phenomenon, the emergence of this problem has led to the destruction of urban ecological environment, urban ecosystem disorder, not only failed to improve the urban ecological environment, but also led to a negative effect. Therefore, in the process of integrating the ecological planning concept into the landscape design, it should be clear that scientific and rational design principles should be adopted, and the characteristics of the local ecological environment system should be combined with the “beautification of the city”, and the relevant ecological factors should be analyzed in depth. Scientific rational choices are designed and designed to ensure that the transplanted and planted vegetation does not cause damage to the original ecosystem.

4. The application of ecological planning concept in landscape design

4.1. Ecological planting in landscape design

Vegetation is an important part of the landscape design. The quality of the landscape design and the overall level of the landscape are largely determined by the strength of the ecological planting capacity. Specifically, ecological planting in landscape design can be considered from the following two aspects: First, vegetation planting prioritizes local vegetation. In the process of selecting vegetation, garden designers should give priority to local vegetation, which is largely determined by the local adaptability of local vegetation. It should be clear that local vegetation grows locally for a long time, so it has unparalleled superiority in terms of adaptability, growth and survivability and sustainable regenerative capacity, and can be saved to a large extent for care. And the human and material resources of garden vegetation. In addition, the preferential selection of native vegetation in the vegetation of the landscape is also conducive to reducing and avoiding the destruction of ecosystems caused by the introduction of exotic vegetation and reducing the risk of urban ecosystems. Second, ecological planting should highlight species diversity. The main purpose of ecological planting in landscape design is to create good ecological and environmental benefits. On the basis of preferential planting of local vegetation, it is also necessary to consider the importance of vegetation planting species diversity in improving the quality of landscape design. It can realize the diversified characteristics of vegetation types in the landscape design to the greatest extent, and ensure that the design of the garden landscape will not bring a boring and single feeling to the people. For example, during the ecological planting of solitary plants, clumps, and clusters, scientifically and rationally select and match different kinds of plants, and deeply analyze the

feasibility of introduction of other exotic vegetation on the basis of local plants, and strive to maximize the feasibility. Achieve a high degree of integration of vegetation species diversity, ecosystem security and landscape architecture.

4.2. Pay attention to the planning and design of the river course in the landscape design

The river channel is an important part of the urban ecosystem and has an important role in regulating local temperature and humidity. Therefore, in the process of garden landscape design, attention should be paid to the planning and design of the river channel, so as to ensure the finalization of the garden landscape to the greatest extent. The results can not only highlight the ecological regulation function but also utilize and protect the original river channel. Specifically, attention to the planning and design of river courses in landscape design can be considered from the following two aspects: First, scientific planning of urban vegetation landscape soil vegetation cover. It should be clarified that the design and maintenance of the river landscape depends to a large extent on the vegetation above the river soil. Therefore, in the process of designing the river landscape, the vegetation cover of the river should be given sufficient attention, focusing on the vegetation composition. Diversity, only on this basis can effectively ensure that river soil vegetation will not affect the overall river soil due to damage or death of a certain vegetation. For example, in the planning of urban river landscape landscape vegetation cover composition, we can optimize the combination of vegetation such as *Metasequoia*, poplar, willow, reed and *calamus* to provide the necessary guarantee for the stability of river soil. Secondly, in the landscape design, we must pay attention to the protection and utilization of the original river. The development of the city and the formation of the river complement each other. The two promote each other, integrate and unite each other. The life and production of the people have a great dependence on the river. Therefore, in the current landscape design, we should pay attention to the original With the protection and utilization of rivers, we strive to avoid unnecessary damage to the original rivers to the greatest extent, but to maximize the use of the “ecological planning concept” on the basis of scientific and rational planning. The use of the original river channel for the construction of landscape architecture not only reflects environmental protection but also highlights unity.

4.3. Pay attention to performance and protect regional characteristics in landscape design

The main audience of the landscape is the local people. Therefore, the overall style and overall characteristics of the landscape should be able to fully conform to and reflect the regional characteristics, and strive to be able to meet the local people's recognition and love of the landscape design to the greatest extent. Designers in landscape design should pay attention to performance and protect regional characteristics, and incorporate regional cultural characteristics into the concept of ecological planning. Specifically, paying attention to performance and protecting regional characteristics in landscape design can start from the following two aspects: First, integrate local customs on the basis of in-depth analysis of local regional characteristics. The local customs and customs are developed and formed by the local people in the long-term life, which fully conforms to the people's living habits and cultural identity. Therefore, integrating regional cultural characteristics into the landscape design is conducive to enhancing the people's recognition of the landscape design. Sense and satisfaction, in addition, can also save investment costs by making full use of local resources, and improve the overall level of landscape design. Second, extensively collect and listen to the opinions and suggestions of the people. The opinions and suggestions of the people can directly reflect and reflect the needs of the masses. Therefore, the integration of the opinions and suggestions of the people in the landscape design can not only play a prominent role in regional characteristics, but also enhance the natural beauty of the landscape through brainstorming. The humanistic beauty has made the ecological planning concept and regional characteristics highly integrated and unified, and has been recognized and endorsed by the people.

5. Conclusion

This paper takes the application of ecological planning concept in landscape design as the

starting point, from the improvement of people's eco-environmental awareness and the diversification of demand, and the importance of ecological gardens in urban ecosystems. The reasons for integrating the ecological planning concept are further explored, and on this basis, the application of ecological planning concept in landscape design is analyzed. For example, ecological planting in landscape design and attention to river planning in landscape design And design, etc., hope to promote the quality and level of landscape design has a certain reference.

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