Composition and Reproduction of Regional Landscape Elements of Highway

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Abstract. In recent years, with the enhancement of people's awareness of ecological environmental protection and aesthetic ability, as well as the requirement of sustainable development, the coordination between highway and landscape has gradually attracted people's attention. How to reduce the damage of highway construction to the original landscape and create a harmonious road environment, and how to make highway construction not only meet people's travel needs, but also coordinate with the surrounding environment, are new problems faced by highway construction. By sorting out the inheritance paths, this paper classifies the highway landscape, pays attention to the protection and grasps its essence, so as to protect the regional context and characteristics on the basis of combining the innovation of the times in the planning and construction of the highway landscape.

1. Introduction
Highway provides a good material carrier for the inheritance of regional elements, so that regional elements can be well protected and inherited in the process of development and construction. In the landscape atmosphere with regional elements, people can get spiritual resonance and trigger a sense of identity of regional culture. The elements of regional elements can be divided into natural elements and human elements.

2. Natural elements

2.1. Topographic features
Topography refers to the undulating state of fixed objects distributed on the surface of the earth. Geomorphology refers to a variety of shapes or shapes created by the interaction of internal and external forces on the earth's surface, focusing on the origin of defining the various shapes of the earth's surface. Both of them construct the basic material elements of the regional landscape, and play an important role in the geographical and natural elements of the region. Different landforms, such as mountains, lakes, hills and plains, mountains and ravines, make people use and transform nature in different ways. Regional differences lead to different spatial emotions. In the process of creating regional landscape space, it is particularly important to integrate regional elements. Making full use of the current topographic fluctuations is a kind of action to protect and cultivate the regional characteristics. As seen in figure 1.
2.2. Vegetation

Plants are affected by geographical climate and distribute in different kinds and quantities. Different soils and climates cultivate plants with different habits and differences, which form the regional distribution of vegetation. On the one hand, plants have their own ornamental appearance, on the other hand, the cultural imprints carried by plants also reflect the cultural literacy and characteristics of the region, and become an indispensable part of the regional culture. Especially the regional plants with special characteristics endow the local people with feelings and sustenance for the region.

2.3. Water

Distribution of water affects people's life and habits since ancient times. Since ancient times, people have tended to choose water to live in. Production, life and entertainment activities are inseparable from water. Water body or gentle or turbulent breeds regional culture with characteristics and differences. The distribution of water body and people's life and emotions form a rich and colourful regional culture. As seen in figure 2.

2.4. Indigenous materials

Local materials are the important carriers of regional landscape expression. The color, quality and texture of local materials have long been deeply perceived by local people in their daily habits and memories, and further carry deeper emotions, thus becoming an important medium for expressing regional elements. In highway landscape design, if we can fully and appropriately use regional materials, it will increase the intimacy and identity of the landscape.

3. Humanistic elements

3.1. Historical background

The elements of historical background include regional legends and regional history, with a large number of celebrity anecdotes and commemorative activities. These cultural treasures, which have been circulated and precipitated for a long time through books or oral transmission, have been integrated into
the local representative regional elements through the inheritance of the local people from generation to generation, providing important and abundant expressive materials for the landscape design process, enhancing the attraction of the landscape itself, and further spreading the regional culture.

3.2. Traditional architecture

As the crystallization of the wisdom of the traditional people, traditional architecture witnesses the life history and aesthetic inheritance of the ancestors. Influenced by the limitations of terrain, landform, climate and construction technology, traditional architecture has its own unique architectural style, which integrates regional concepts and reflects the social and cultural, production and lifestyle, economic conditions and other social backgrounds of the region. As the integration of material and spiritual skills, architecture plays an important role in the expression of regional culture.

3.3. Folk customs

Folk customs can best reflect the ideological culture and behavioral patterns inherited by local people in material pursuit, spiritual outlook and family concept. They are embodied in living, clothing, diet, work, sacrifice, marriage and funeral, moral etiquette and aesthetic taste, etc. Traditional folk customs and customs are closely related to local people's daily behavior and cultural life. Therefore, the application of them in highway landscape design can arouse people's resonance and convey local feelings. As seen in figure 4.

3.4. Regional industries:

Different geographical locations and natural resources derive different regional industries in different regions. While driving economic development and bringing benefits to people, they also derive regional
culture and literacy, which are deeply imprinted in people's hearts. The value and spirit of industry in Guangdong can be sustained and developed by reasonably applying the information and feelings contained in regional industry and digging out the genes and symbols it carries in the landscape design of expressway. As seen in figure 5.

![Figure 5. Black tea culture](image)

### 3.5. Literature and Art

Literature and art are the most direct spiritual sustenance and cultural carrier of the local people. They originate from the historical reproduction and daily life. They reflect the spiritual pursuit of the local people in a certain period of time through the form of non-material culture, and form an artistic system to spread to future generations. Literary works such as sculpture, calligraphy, painting, dance, traditional handicraft, poems, songs and fu, etc. When expressway landscape design, it is helpful to obtain more abundant landscape design materials by taking into account the manifestations and ideas of regional art. As seen in figure 6.

![Figure 6. Ling Nan Lion Dance](image)

### 4. Reproduction of regional elements on highway

In view of some regional elements damaged by time or historical reasons or only remaining historical memory, the method of landscape restoration is adopted to restore the scenes with historical and cultural connotations, so that drivers can obtain spiritual resonance in the landscape atmosphere with regional and cultural characteristics, and trigger a sense of cultural identity. Generally speaking, reproduction methods can be divided into two kinds

#### 4.1. Original style and features

Usually, it is based on the existing damaged road landscape to reproduce its original historical appearance. It is usually repaired or partially restored in order to inherit its cultural connotation and restore the artistic conception of its historical landscape. As seen in figure 7.
4.2. Expressing intention
Highway provides a good material carrier for the inheritance of regional culture, so that regional culture can be well protected and inherited in the process of urban development and construction. Reproduction is not only the reappearance of external landscape features, but also the integration of people's feelings about history. As seen in figure 8.

5. Conclusion
In this paper, according to the characteristics of highway, the characteristics and classification of regional elements are studied, and the method of reappearing regional elements in expressway construction is given. It is mainly embodied in the following two aspects:

5.1. Reference
Through drawing lessons from and inheriting some traditional architectural, architectural and traditional art, traditional crafts and other forms of expression language, using techniques to imitate the local decorative style, and on this basis, re-innovation, creating a landscape with historical and cultural connotations, inheriting regional culture. By endowing the landscape space with a unique spiritual significance, people can have rich associations, which not only make people get pleasant satisfaction from audio-visual feeling, but also produce spiritual resonance.

5.2. Metaphor
Metaphor, originally a literary rhetorical device, has now become an important means of landscape expression. Metaphor refers to making a work with cultural impression in the landscape and becoming a symbol. The transmission of regional cultural connotations or feelings and spirits is carried out through the spatial modelling or detailed features of metaphors and objects which are similar and concrete. Through the image of landscape works to arouse people to think and associate, and then generate empathy, and finally achieve emotional resonance.
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