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## Awareness and introduction in Greenway, with benefit and planned greenway planning strategies

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### ABSTRACT

*Greenways is a transmitted term which applied to world wide area of landscape, landscape design planning strategies, benefits of greenway through different styles and functions, concept, and its fundamentals use. Some of the emerging on the benefits of protecting surrounding networks of land. These articles are highly important for the definitions of greenway characteristics, planning of greenway, the connection of greenway through social and aesthetic, benefits and liabilities which can apply on the topography for the greenway. Here in this study the greenway planning based on patterns, shapes, materials, sizes, open space, semi-covered space, forms, etc. Entire in this discussion greenway are taken as totally useful planning design strategies and management of sustainability landscape. It depicts with an illustration in the importance of greenway planning comprehensive. It invites the nature protection for the huge development of capturing recreational uses. It also worked for restoration and preservation of natural resources with the rivers corridor, walkway corridor, and road side corridor and also found some examples for the framework for many greenway corridors.*

**Keywords:** Greenways, Sustainable landscape planning, Greenway classification, Greenway planning and Urban open space.

### 1. GREENWAY

Greenway is a corridor of land development for their potential to human and open space together. This open space comes within the linear corridor which is treated either natural such as streams and rivers or manmade such as road side bed, Rail side area, etc. There are many more examples of the positive connections between property values and green space and this greenway is played for vegetated buffers protect natural habitat to get better water quality, reduce flood and many more.

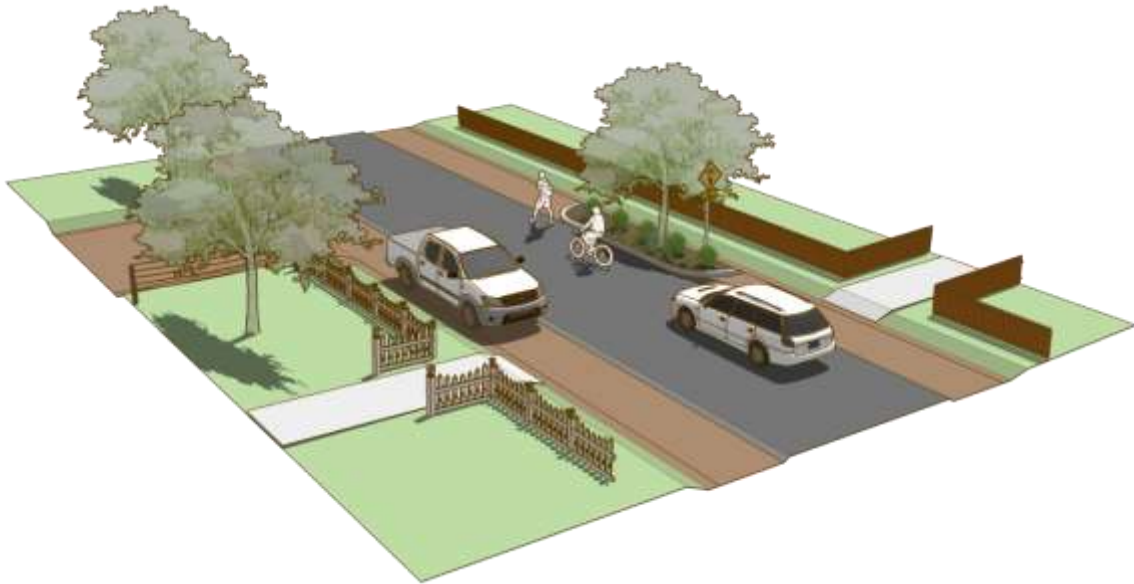
Green way is a worldwide vegetation term that has been applied to a wide range of landscape design with the help of planning strategies and planning concepts. It is a big size open space such as canals which is found along the hillside, valleys or along the river side which can be converted to a recreational use for greenery, landscape design, garden, outdoor, open space, etc.

The greenway planning activities have a huge importance in the field of the conventional park, urban park, and many more.

Greenway is a trail a corridor, which is found in both areas rural and urban. The greenway also plays a role of green belt and the park way which is used for pedestrians a street corridor and also focusing and maintaining vegetation. Some of the greenways comes under community yard, jogging area, park area including landscaping tree and shrubs. If we can say the actual meaning of greenway that resembles a liner park, which is mostly found I. Urban and suburban environment. Greenway usually created a part of the redevelopment and negated area. Greenway is vegetation multipurpose, linear that includes many terms such as Bikeway, footpath, bicycle way, walkways etc. It plays a community role that connects country and cities which comes under urban and rural area. Greenway does not have any green in color. It identity also Blue, yellow, orange, purple, white, brown etc. in colours in a harmony or repetition combination or patterns. Here in this colourful greenway, it has some individuals meaning and role, but one thing is very clear that all are connected to each other.

This greenway divided into two main area for their different functions and uses. as I talked earlier one is urban and other is rural.If we are talking about urban greenway Development then here comes many functions and examples one is to create open space where

public easily reach ,recreational uses, urban park garden, road side garden developing lawn as a green pocket and second to provide protecting natural resources which are still present in today life, in this way the greenway tie with many various linear open space in urban region and so provide the developing cities with the help of walkway, passages gallery, bicycle rout ,wild life routes, urban landscaping design corridor. This Greenway corridor has some of the various duties such as awarning to increase the people interest for their outside recreation protecting the area of wildlife, controlling urban development, balancing between air pollution and heat changes etc.



**Figure 1. View of the urban greenway to divide walkway, vehicular and green pocket**

## **2. BENEFITS OF GREENWAY**

Greenway is the number of functions and benefits, such as reducing pollution, increases biodiversity reduce flood harms, increases recreational microclimate, enhancing microclimate effects, reduce riverside erosion

- There are many examples, including both locally and nationally which reflect the positive connection between properties values and green space.
- Greenways is a multipurpose connection that is generally paved and design as a mostly hardscape for the movement of walk way, bike way, cycle way transportation.
- Most of the greenway are green trails and I paved which is followed by pedestrian's connections.
- Creating land values more and generate economic activity.
- Development of pedestrian and bicycle transportation
- Improving health quality
- Awareness of cultural and community activities
- Greenways are multipurpose connections that are mostly paved and allow for bike transportation.
- Complete streets and living streets are multipurpose transportation corridors; however, complete streets have vegetated shoulders and allow for automobile, bike, and pedestrian traffic, whereas living streets encourage pedestrian and bike traffic only.
- Greenway creates an opportunity for natural landscaping
- Greenway has an important and positive effects on values of lands.
- The outside recreational demand of people and increases social interaction.
- Greenway seems to be an aesthetical quality
- Public interaction is increasing by Greenway
- This Greenway creates an opportunity for planners and designers to form new Morden design in the urban area.
- Economic benefits of green way increase the land price, growing tourism and increases business.
- Life quality of everyone community increases.
- Reducing community cost.
- Expending tourism opportunities
- Preserving natural area

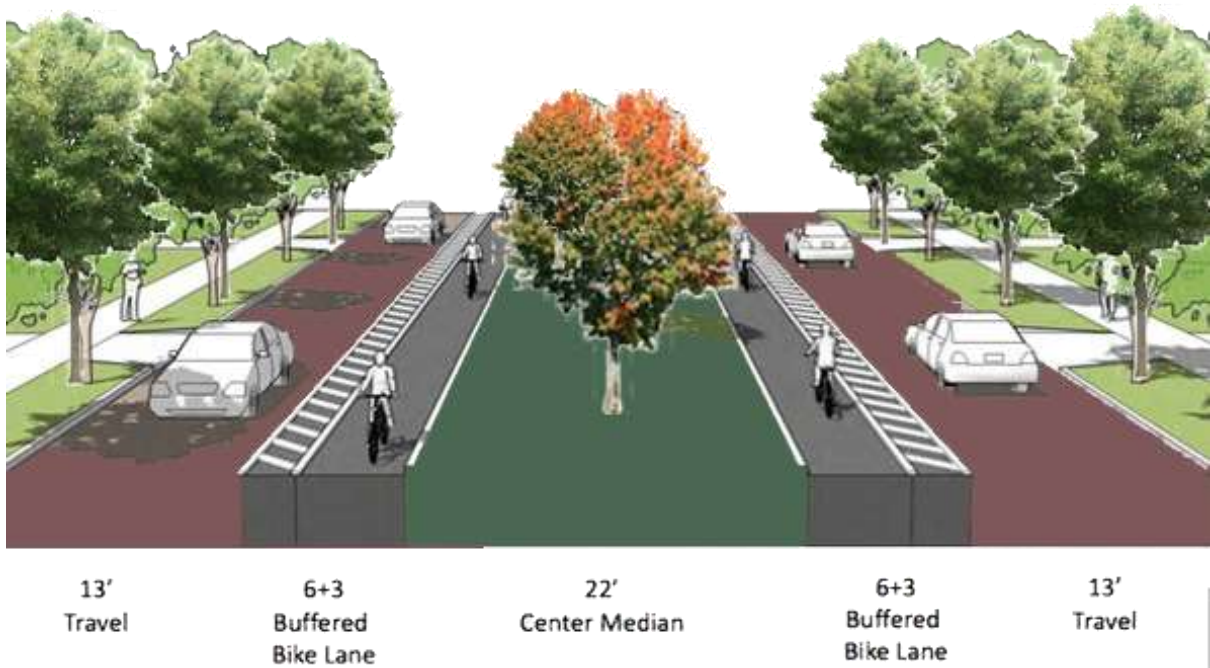


Figure 2: Greenway planning with the open space of cycleway, walkway, alternative transportation, and road divider



Figure 3. Section of all division of greenway showing sidewalk, cycleway, bus way and middle road divider

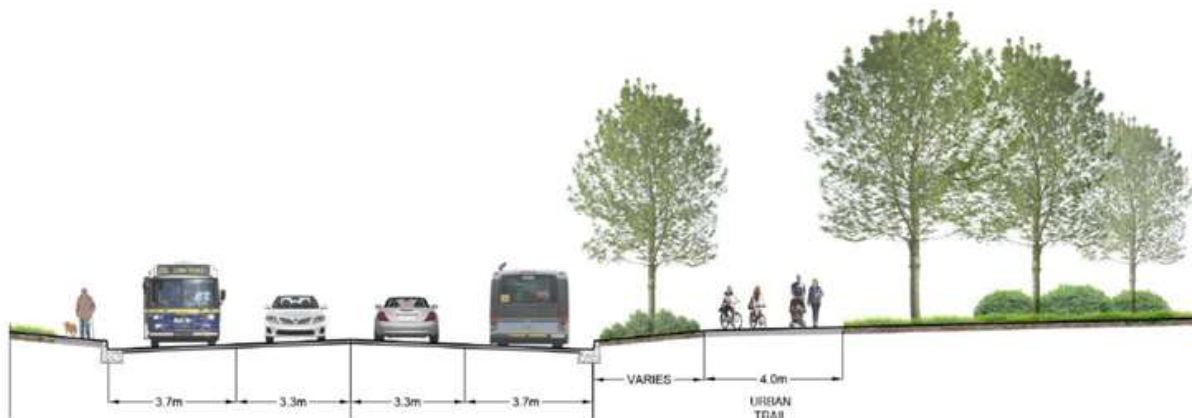


Figure 4. Section of all division of greenway showing sidewalk, cycleway, busway and middle road divider



Figure 5. A concept design set of the section and a top plan of greenway design planning

### 3. GREENWAY DESIGN AND PLANNING

Green way concept is rapidly developing in higher level so there is some guideline which is planned accounting to the area and uses. They are very much potential for their valuable role in biological diversity, activity hub, ecological balance, environment and some of the part covered with greenway belt which is a quite very important feature in urban cities. The greenway planned in such manner to achieve the requirement of above discussion. First, the greenway planned in local scale, then in a regional scale, and then to country scale to create all over the greenway design system.

As we discuss earlier that the greenway planning should be done in linear pattern or in corridor pattern the all elements and principle follows according to that linear design the plantation is done in linear form, the pathway design is done according to the same, if any element comes under the greenway design all are planning to be like functional design. This is how design connects many other things in just one platform.

In this context, the green way planning process is proving sustainable landscape which to produce more and more lifespan of that design.

Greenway planning should contribute continuous network system which supports ecological balance, environment function, protect natural habitat, natural resources and also applied sustainability of landscape. So this planning is integrated planning to create a linear network in a sustainable framework. Greenway in such manner that the route should meet the comfortable range of standard width, functional gradient, and the ground surface condition to ensure that all belong to eco-friendly and user friendly materials, plantation done along to the greenway is self-maintenance and always try to grow native plant so that it will reduce transportation cost, maintenance cost, and layman cost. types of vegetation for example where to use tall tree, small tree and dwarf tree, shrubs, groundcover grasses, hedges, any kind of creeper all implement according to the planning, use functional and connectivity. The

selection of plant again plays an important role to promote the greenway planning that what kind of plant is to be selected in which area depends upon all climatic condition. The element which is used in greenway planning is placed for their need and use material is place eco-friendly and sustainable style.

Here to design greenway area some of the major element and principles to be considered as an important role in planning such as shape, form, material, texture, pattern, space, unity, proportion etc.

Here is the design process as follows:-

Pattern and shape:

Linear:-design has to be done in linear, mostly alongside high traffic road.

Curvilinear: more often when traversing through natural terrains and connecting with the countryside.

Linear or radials dispersive: when traversing through complex land uses and conditions through cities and regions

Form (volumetric or as visible through a sectional view of greenways, as described for spring)

Semi-open: includes a continuous avenue line with trees and shrubs having punctuated views/openings for visibility and for traffic, or natural vistas or lined only with trees

Closed: mostly short, stretched to include continuous avenues lined with trees and shrubs or with trees, shrubs, and ground cover.

Open: includes avenues lined with either tree, shrubs, or ground cover or with four-foot-high (below-eye-level) shrubs or ground cover

Material

Asphalt: for multifunctional greenways

Gravel or mulch-topped compacted earth: for the green trail

Others: brick, concrete, timber

Texture

usually mixed because of the multimedia template of the surface material(s) of greenways, which are mostly synthetic, and plant materials that could range from fine-leafed/textured trees, shrubs, and grasses to fine- to broad-leafed or coarse-textured plant materials.



**Figure 6. Greenway site plan with different types of activity**

#### **4. CONCLUSION**

Greenway multipurpose function of its use for the benefit of people and environment. The maximum emphasis of the greenway as a main purpose of the environment, ecology, open space, social community, aesthetic appearance. Urban greenway incorporating many things for examples the purpose of storm water management, recreational activities, tourism attraction, corridor design, alternative transportation, bikeway, cycleway, pathway, walkway and many more. Greenway design for the multifunctional, with the approach of greenway as ecology balance, promoting biodiversity, environment-friendly, which can reduce pollution generation and fuel consumption. The greenway design for the urban cities really classic world base which can depend on land availability, open space area, road side area, conservation of any greenway area. As an observation this is to design a greenway all over suited to any region either is the part of urban, sub urban and rural which greater numbers of useful benefit give the positive result in any condition either it is included with health purpose, air quality, social and economic benefit, transportation benefit increase property values and many more, Here this greenway is design by all age ground livings and non-living things.

Additionally, this article has some interdisciplinary design framework in which greenway planning and strategies are to be emphasised. Greenway is the place for interaction of public one to another in user-friendly environment. Greenway makes cities more functional and sustainable, it is connected over the park and open space area. It also links our neighborhoods and lastly, greenway provides mobility option.

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