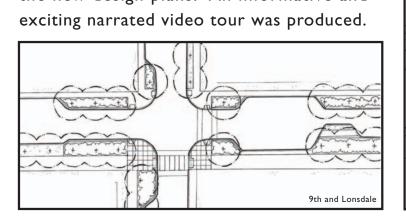
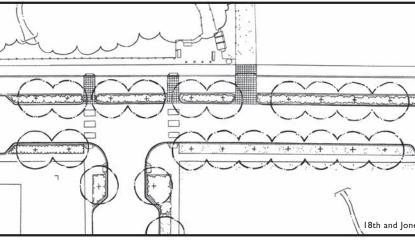


Digital Communications A 2D digital fly over of the entire Green Necklace route was created using a base orthophoto of the City and then digitally superimposing in the new design plans. An informative and





A 3D Model of Phase I with new detailed landscape design plans was constructed providing unlimited virtual views of parks & greenway plans. An animated tour provided clear illustration of the proposed Phase I section. This is a valuable tool for planners, designers, curious public and possible sponsors.

New technologies and innovative communication tools for public consultation and marketing. The development of high tech digital fly throughs, 3D animations, websites and marketing has given Landscape Architects an opportunity to practice and lead in new and emerging areas of the profession.

The fly through and animations are accessible on the Green Necklace website

3D stills from the Phase I 3D animated tour 1 2



In 2003 the City of North Vancouver Council endorsed a plan recommending the Green Necklace be the focus of greenway development leading up to the City's Centennial in 2007. Victoria Park being the centre piece of the necklace will be the focus of Phase I. Construction of the first phase begins in early 2005 to be complete by mid-year 2005.



Victoria Park being the cultural and historical heart of the City's park system has taken on a traditional English character. Introducing more contemporary landscape approaches, such as rain gardens and bio-swales, into this landscape has its risks. Victoria Park and its cultured setting is highly valued by residents of the City as it is host to important community events. Any intervention into the park by components of the Green Necklace must be respectful of this sentiment.

Integrating Public Art

Public art will help maintain and enhance important historical, traditional, cultural, environmental and social elements of the city. The City's Public Art Master Plan, encourages all major City capital projects to have a public art component. The Green Necklace will integrate creative public art along it's route and into the open spaces it connects. The phase I art piece will tell a story of transition from dependence on forests to the role of recreation and stewardship that our parks and open spaces play now.

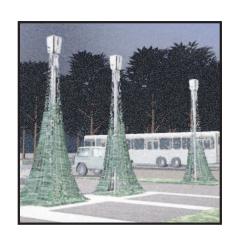








Design



Location & Significance

The City's Official Community Plan is considering goals that reflect the words:

'livable, sustainable. diverse & complete community'. 🛃

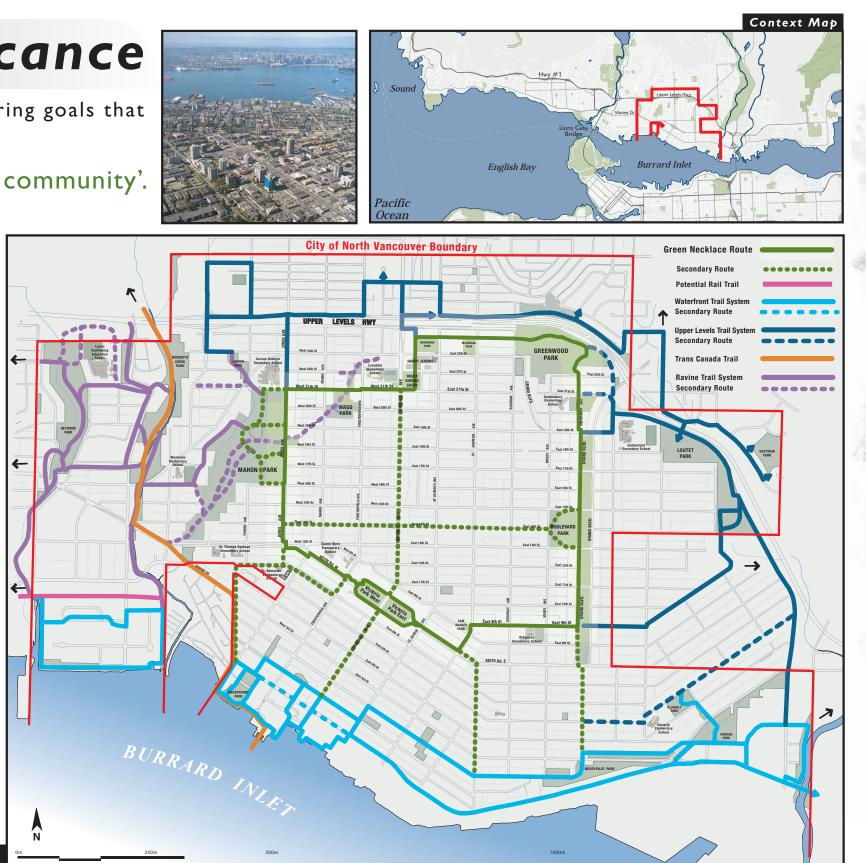


These concepts balance social, environmental and economic objectives. Their success relies on integration of many different factors. The role of parks in contributing to these goals will also involve careful integration of the parks system with other systems – including land use, social interaction, transportation, and environmental systems.

The future vision of the City's parks extends beyond the park boundary and considers the role all public lands play in the City's open space system. A major part of this public land is the street system; therefore parts of the street system may need to be integrated and adapted with the parks system to become linear 'greenways'

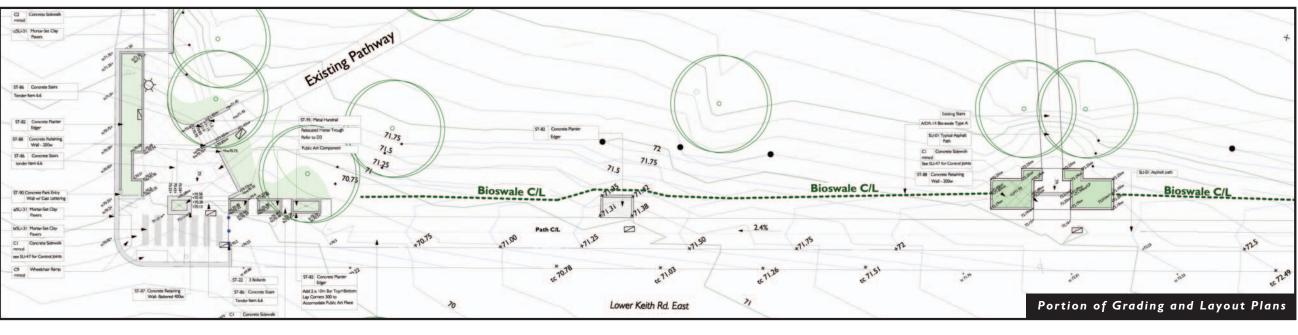
This 7km greenway route encircles Central Lonsdale in the City of North Vancouver. The multi-use path, separate from the street, will be accommodated through road narrowing and sensitively integrating within existing parks and boulevards.

y of North Vancouver Future Greenway system





The Landscape Architect lead the development of marketing and promotional materials and implemented a strategy that will engage partners and sponsors in the growth of the Green Necklace.



The Green Ways

Ecological enhancements have been integrated into the design of the adjacent open spaces, boulevards and streets. Infiltration of stormwater is a key goal behind these enhancements which are being demonstrated in several ways: pervious paving, rain gardens and bio-swales. Although the technologies and techniques used in the rain gardens and bioswales are not new to the region they have typically been executed in a more naturalistic fashion and context

The Green Necklace represents a significant contribution toward a better environment and a more sustainable community by emphasizing walking and cycling over driving and including innovative storm water management techniques. Many components of the Green Necklace will put more 'green' in the urban fabric of the City.

A row of lawn basins along the south edge of the park which drain the sloping lawn areas needed to be relocated to make way for the multi-use pathway. This presented an opportunity to redesign how storm water was managed on the site. The resulting feature was based on a precedent from Parc des Lilas in Val de Marne, France. The design team felt the 'flower canal' element in that park successfully integrated this stormwater management feature into a more 'cultured' park setting, and that this design approach could be adapted for use in Victoria Park.

The resulting design is a bioswale that feeds into a rain garden, involving planting with inundation and drought tolerant flowering plants which are regionally appropriate and architecturally defined by low concrete retaining walls. When the rain garden fills, it overflows through a shallow channel across a seating area, spanning one of the formal pathways and the staircase to the cenotaph. The channel then empties into another rain garden, mirroring the first.

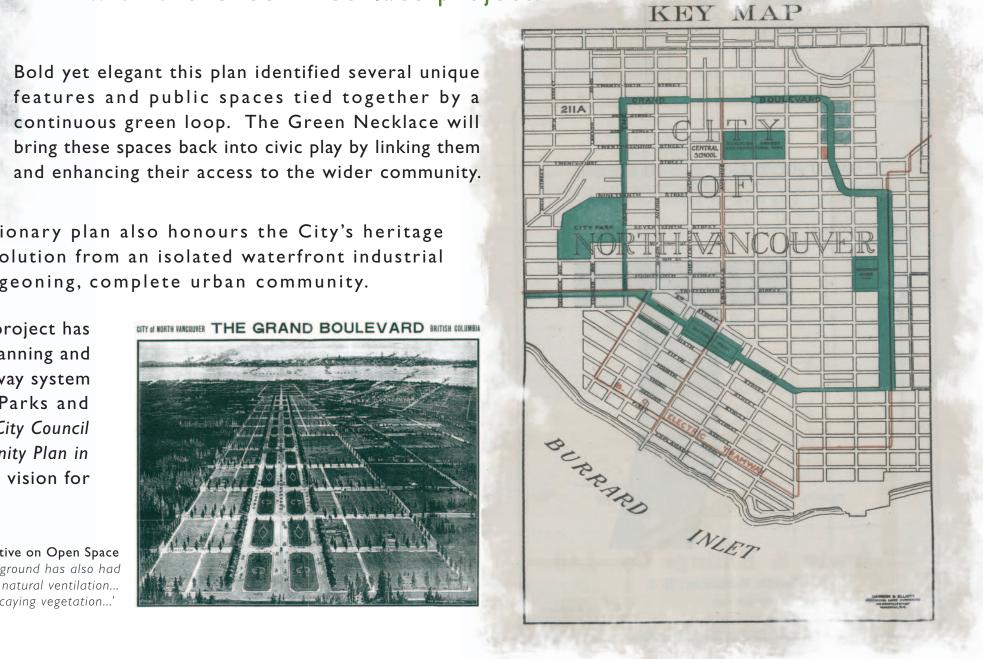


The **BEGINNING** of A GREAT PORT ILLUSTRATED.)

The 1907 town plan for City of North Vancouver envisioned a system of parks within walking distance of a dense urban core, establishing the green lungs of the community. Over time this vision has been partially lost but not forgotten. One hundred years later the City is planning to renew this vision with the Green Necklace project.

Building on this visionary plan also honours the City's heritage and its historical evolution from an isolated waterfront industrial location into a burgeoning, complete urban community.

This large, multi-phased urban greenway project has been underway since 2001 when initial planning and public consultation on a City-wide greenway system was undertaken. This resulted in the Parks and Greenways Strategic Plan (adopted by the City Council and incorporated in the City Official Community Plan in 2002), a document that outlines a 20 year vision for greenway development in the City.



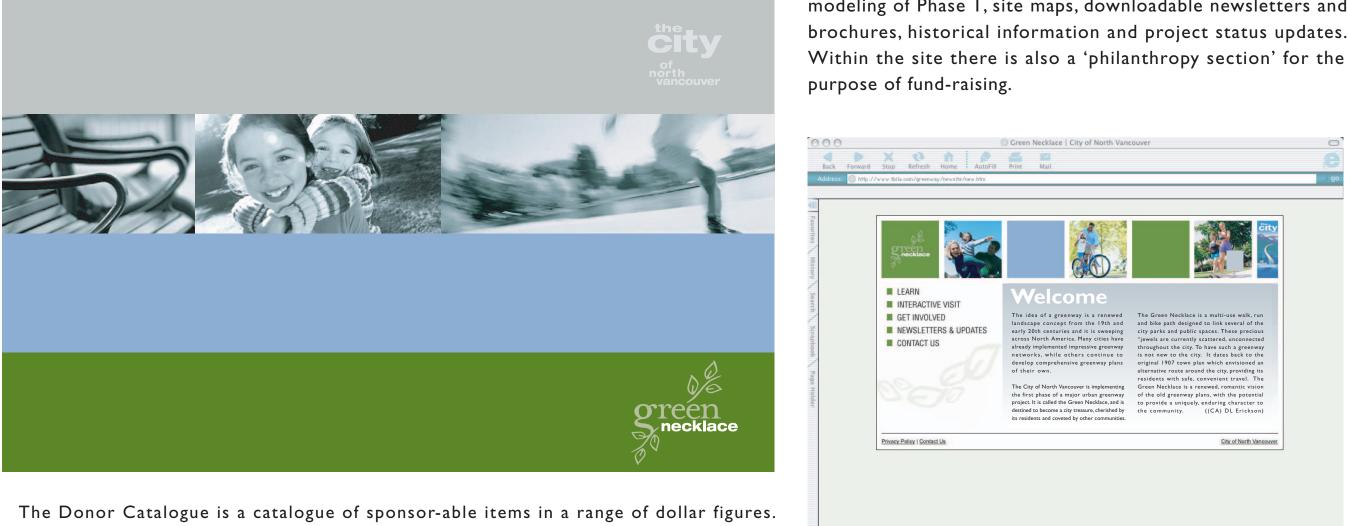
The policy adopted of clearing away the forest prior to selling the ground has also ho a great effect on summer temperatures by opening the city area to natural ventile he The clearing exempts residents from the injurious breath of decaying vegetar

rom archived document **A Great Port 1907**; a different perspective on Open Space

Philanthropy

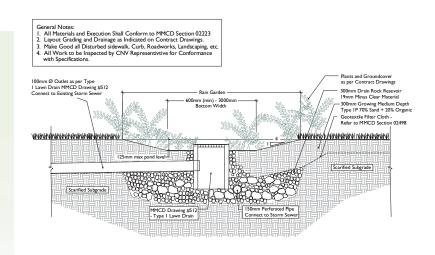
A special brochure was developed specifically to encourage residents and business participation in the Green Necklace development.

THE GREEN NECKLACE GREENWAY SYSTEM



This list of philanthropic opportunities available for contribution include: benches, trees, drinking fountains, bikeracks, public art projects.

The Catalogue will be available in both print and virtual(Web and CD) format.



Rain Garden Construction Detai

necklace



Fitting a greenway into an existing city is a challenge. Roads, sidewalks, buildings and parks already exist, with little room for other elements. The Green Necklace design teams have been able to create a pathway that safely connect the various parks and open spaces of the City by carefully redesigning roads, boulevards and parks. Integrating stormwater improvements, traffic calming and landscape upgrades adds to the ecological health & livability of the project and the neighborhoods it passes through.



Digital technology utilized in the Green Necklace sets a new and unique standard of communication and illustration of a project. This project represents an initiative which others can refer to and adopt.

> Landscape Architects working in today's industry should look to not only creatively solve the problems of design and construction but also be able to engage and deliver multi-media and multidisciplinary product.

> The Landscape Architect embraced innovative technologies, best management practices, effective communication, promoted sustainablilty and illustrated the expanding role of Landscape Architecture.

> > Tom Barratt, BCSLA, CSLA, Tom Barratt Ltd



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www.GreenNecklace.org

The webpage is designed to be a source of public information, communication and interaction. An important Multi Media Marketing tool GreenNecklace.org contains a wealth of information about the Green Necklace including a narrated fly-over video of the project, 3D digital animation movies and modeling of Phase I, site maps, downloadable newsletters and

visit us at www.GreenNecklace.org