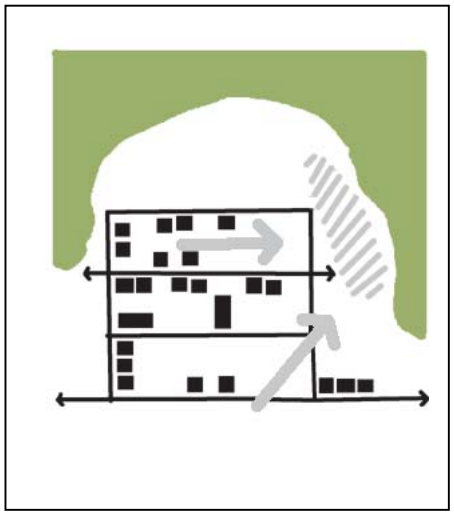
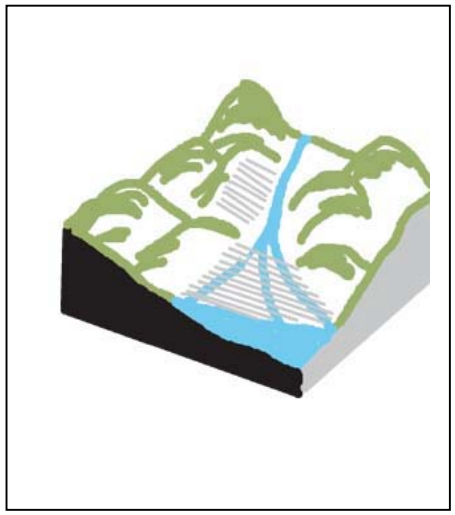
Mining Education and Heritage Conservation - District

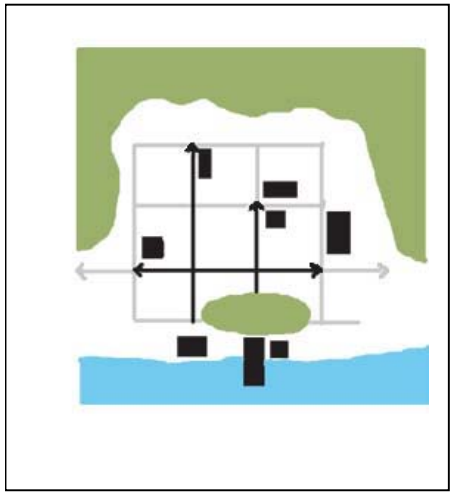
Industrial Landscape
Preserve the industrial landscape of the Britannia Copper Mine. The mine was the reason for the existence of Britannia Beach and contributed to the economic growth of British Columbia. The mine site showcases the transition from past mining practices to present more sustainable mining practices and remediation expertise. Views to the mine separator building should be maintained.

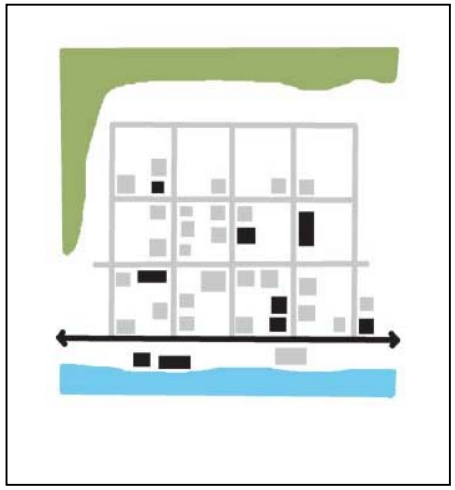




Historic Landscape and Natural Disasters
Mark the historic flood and landslide events which occurred in Britannia Beach. These events serve to give meaning to the community's past and also educate us as to the natural processes characteristic of this region. The geomorphology of the original landscape and the biological, physical and chemical processes which occurred should inform new development.

Transportation Heritage
Enhance the importance of Howe Sound, an historic route of travel. Re-creation of a dock facility could be part of a plan to encourage visitors to come to Britannia Beach by sea. A public space adjacent to the dock facility can be developed to integrate this transportation heritage with the proposed educational centers for mining history, mining research and environmental remediation.

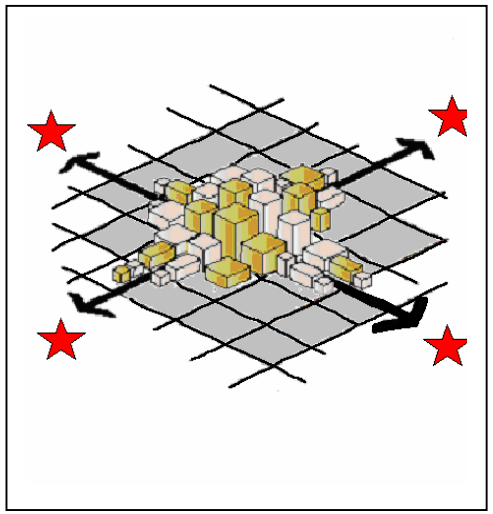


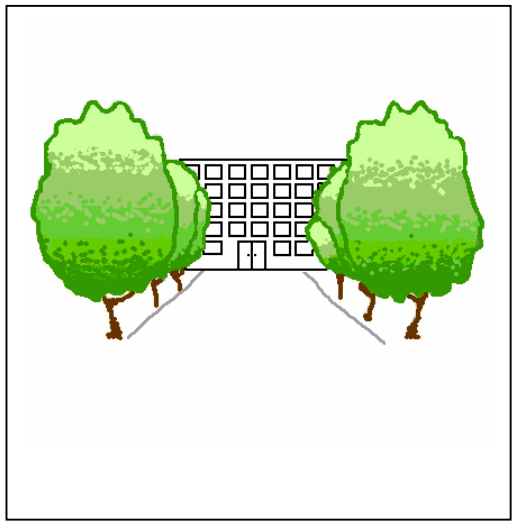


Urban Remnants
Preserve important historic buildings, streets and structures in Britannia Beach. These historic remnants in the urban landscape of the district tell the story of the community's past and help to show how the community developed and functioned. Emphasize the connection between historic remnants and new development by incorporating their use into the fabric of the community.

Mining Education and Heritage Conservation - Corridor

Linkages Create a Centre
Provide pleasant and direct pedestrian connections between important heritage sites; where the linkages are strong enough to warrant vehicular traffic, a major road should be constructed. These roads will act as the main streets of the community, connecting residents and tourists with significant historical and cultural sites. The points at which these main streets converge are ideal places to locate retail and tourist facilities, parks, churches, etc. These centres of activity will help to give a strong sense of place and uniqueness to the Britannia community.

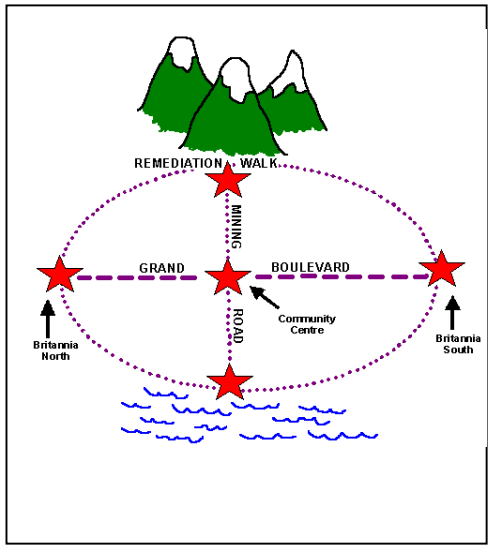




Frame Views
Views link residents to the larger community by contributing to a sense of place. To ensure that views are not obstructed by new development, terminate streets at historical landmarks and viewpoints, ensure that new buildings and vegetation do not block historical views, and frame the maintained views with trees and buildings close to the street.

Network of Linkages
A network of pedestrian/cycle-oriented trails will serve to connect historically and culturally important sites. Possible forms that such linkages might take include:

- A "Grand Boulevard" running north-south through the community that acts as a main street and contains stop points that highlight significant historical and cultural events
- A "Mining Road" than runs from the water to the mountains, which tells the history of mining practices and the future of sustainable mining technologies
- A "Research and Remediation Walk" that links research and remediation facilities and key past and present remediation sites



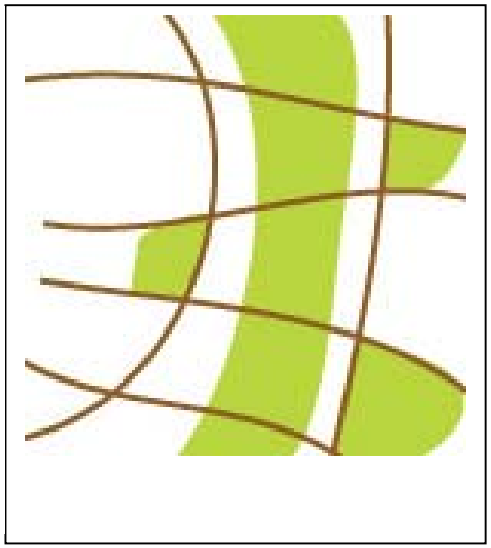
Incremental Grid
To protect historical roads and community patterns, use an incremental grid. The urban grid system can depart from typical rectilinear orientations in order to work within the historical form of the community. Major streets provide the primary ordering element and maintain connectivity and ease of movement, while local interconnected traffic patterns can be adapted to move around important historical and cultural elements in the landscape. Use of the incremental grid will add variety and interest to the Britannia community and ensure the preservation of its distinct character.

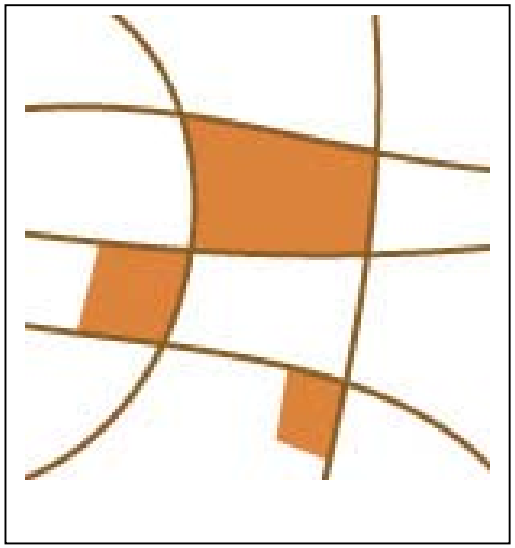
Mining Education and Heritage Conservation - Block

Apply pollution treatment pond
The outside of blocks or a whole block can be a public open space with pollution treatment pond. It is a possible green technology to treat ARD. It could be either a shallow wetland marsh or a dry pond with native plants to retain contaminated water for allowing sediments and other pollution to settle. This kind of mining education facility should be visually accessible.

Establish interconnected stream water network
Roadside infiltration swales and street trees are ideal for the collection and transportation of storm water. The interconnected street system facilitate interconnected storm water network as well. It captures, transports and infiltrates contaminated water effectively.

Manage ARD block by block
Overflowing rainwater from the Britannia mining site carries ARD and feeds into Howe Sound. Stormwater management within blocks helps in reducing contaminated water flowing to Howe Sound. An ideal location would be the middle of the block, which can serve as a swale to collect, store and infiltrate storm water. The end of a block or a whole block are also possible spaces to manage storm water.

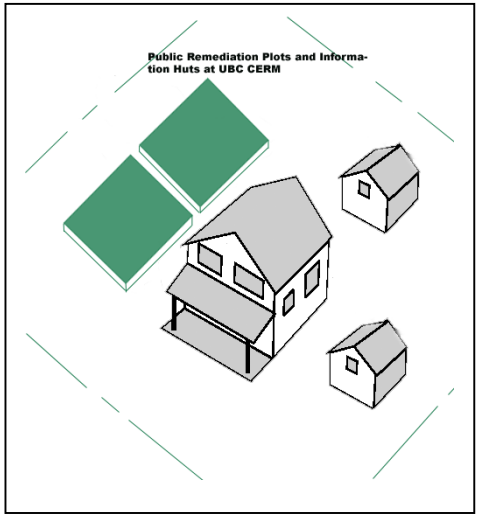


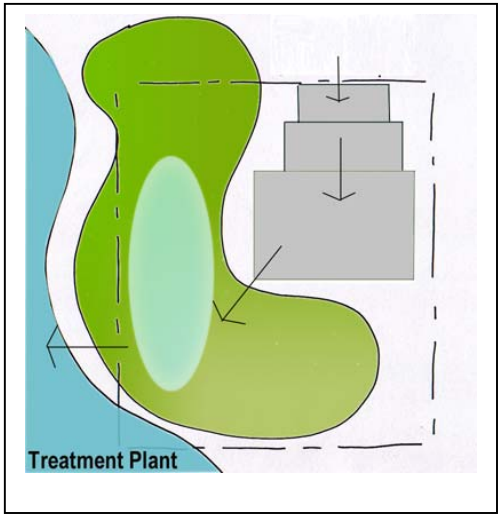


Revitalize heritage buildings and historic events
The revitalization of historic social events or physical architecture not only preserves the history of the site but also establishes a strong sense of the community. The location should be accessible to the residents. The corner lot, end of block, and whole block attract people because these provide easy access by having two or more sides open to the street.

Mining Education and Heritage Conservation - Parcel

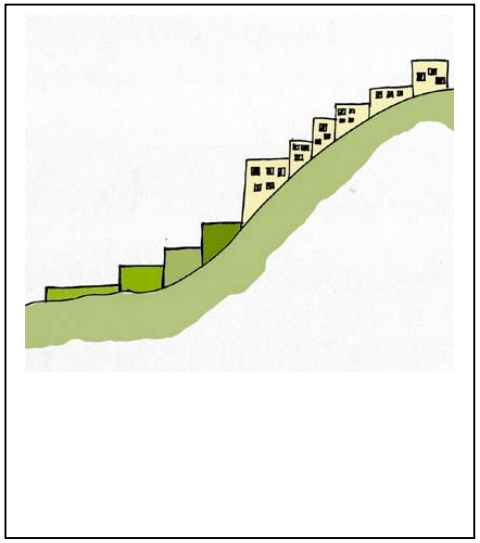
UBC cerm[3]
Use the UBC research facility for advancing mining remediation studies, and as an educational facility for the public. Develop outdoor plots showcasing the power of phytoremediation and indoor 'laboratory huts' where scientists conduct innovative research. Run tours for the public through these facilities.

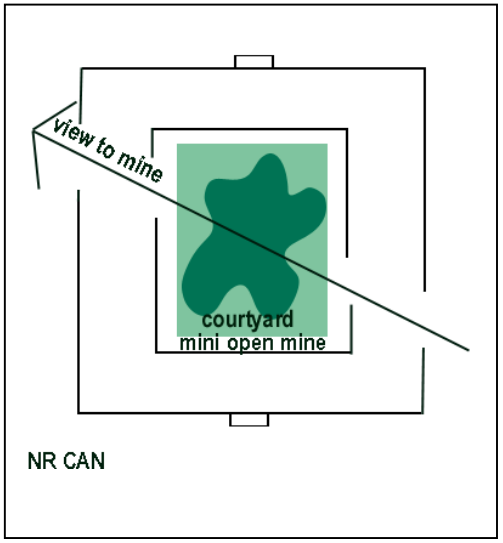




Water Treatment Facility
Develop a treatment plant that serves the public and environment in several ways. Allow constructed wetlands to extend beyond the reaches of the parcel, becoming apart of a public space. Community members and visitors may indulge in seeing first hand the process and results of ground braking sludge treatment facilities.

Britannia Mine Museum
Rehabilitate the existing mine structure where possible and expand the mining museum facilities. Use the lower portions to house research greenhouses and gardens which provide plants for phytoremediation, and mining restoration activities.





Natural Resources Canada
Use the facility of NR CAN to educate the public regarding open pit mining, and the possibility of landscape restoration in these areas. Also situate the view corridor to retain a sight line to the old mine.