



SHARING BOUNDARIES -

Brown and Storey Architects Inc. for the Junction Triangle Rail Committee and the Wabash Building Society

September 2013

Precis / Notes

We have been engaged by the Junction Triangle Rail Committee and the Wabash Building Society to look at different ways of sharing their boundaries with the new rail link being built by Metrolinx. Many people in their communities have been very concerned at the prospect of a 16 foot high noise barrier along their edges where they have previously had a green edge with long views to a unique landscape in the heart of the city. We have looked at how the 16 foot high wall will impact the neighbourhoods, and at several equally important aspects of this shared boundary – the urban forest, the long view, green walls, pathways and bridges – and how the Georgetown corridor could be a catalyst for the City of Toronto and its neighbourhoods by creating value, multi-use pathways and linear parks similar to the West Toronto Railpath. We conclude with recommendations how this could be achieved. We also look at the new airport – rail link as a new major international gateway to the city.

a. Public transit improvements should also improve public spaces.

Historically, transit infrastructure in Toronto has been built at the expense of the urban fabric of the city – drastically disconnecting neighbourhoods and pedestrian, vehicular and cycling routes. Whereas in other cities – like in Chicago, for example, where their major transit infrastructure was elevated – transit infrastructure has been used successfully to improve and intensify urban fabric, creating important neighbourhood nodes.

For Toronto, the challenges of creating the long awaited transit link from Pearson Airport to Union Station have certainly been many, and these suggestions made today don't reflect on the work done to date or the importance of Metrolinx's work. The suggestions do, however, make a point that the new rail link does not need to follow in the steps of other transit infrastructure in Toronto – that is, disconnecting and quarantining neighbourhoods further, and perpetuating the last centuries' approach to transit infrastructure by treating the new line as a necessary evil that needs to be separated as much as possible in a virtual tunnel.

Rather, the rail link should be seen as a positive attribute that can create value along its perimeter – its shared boundaries – that can re-invigorate and increase our pedestrian and cycling networks, be a catalyst for the positive and regenerative reconnection of historically separated neighbourhoods for Toronto residents, and ultimately become a new international gateway for our Pan Am guests and all future visitors. As the Green Games, this major piece of new infrastructure can also further the goals of 'walkability', and 'active transportation' and 'healthy neighbourhoods'.

We know this means re-examining the nature of the standards that have been in place for a hundred years. We know this means stepping outside of the rules, and engaging the fine-grain inconveniently messy details of neighbourhoods, edges, pathways, bridges and urban forests. This boundary is a shared boundary, and we think there doesn't need to be a penalty paid for living next to the train, or that it should perpetuate the disconnection of our neighbourhoods instituted in the last century. It should be a benefit. Infrastructural systems and their shared boundaries with our city can create value.

West Toronto Railpath: the New Landscape and the Long View

b. The landscape of the railway corridors has become a kind of newly discovered country in many cities around the world where cycling and pedestrian trails have been instituted in beautiful green linear parks, either replacing former rail lines, or in parallel to operational lines. Toronto's own West Toronto Railpath is our most recent example. Its first phase, 2 kilometers long, running alongside the future rail link, has been awarded by the City of Toronto Urban Design Awards, the Design Exchange, the Canadian Society of Landscape Architects, and the National Urban Design Awards. Its length provides a glimpse of an intriguing and marvelous landscape of industrial remnants, while providing a new set of looping connections to

neighbourhood streets that once were dead ends. It has also been a catalyst for new residential development along its length.

Connections to streets / re-discovering our urban forest and the vast and majestic views of the city.

And it's happening in other cities around the world. (SMART Sonoma-Marin Area Rail Transit – a commuter rail corridor north of San Francisco integrates rapid transit, bicycle and pedestrian trails and associated public space improvements. Construction has begun on the project's 38.5 mile first phase.)

The Current Metrolinx Project

- c. The new project
 - adding two new tracks in the north half of the GO rail corridor resulting in three total tracks.
 - Five tracks in the south half.
 - One new bridge, 15 other bridges being modified or widened,
 - six new overpasses / underpasses to separate vehicular traffic,
 - lowering the rail corridor at Liberty Village and Weston (at King and Church Streets).
 - Go Transit continues to stop at Bloor, Weston and Etobicoke North stations.
 - The air rail link will stop at Bloor and Weston station.

Sound Barrier Walls

- d. The noise barrier walls are being built along long stretches where it connects with communities or backs on to public spaces within a 200 meter zone. These are being built to full capacity build-out for when the trains are running at full capacity decades from now.
- e. The single purpose of the rail line intersects with a diverse set of communities, all with varying ideas of how their shared boundary with the new transit link should be characterized. The noise barrier, in all its variations shown on the Metrolinx website, is a 5 meter high wall some with windows, some without that blocks the open long views down the rail corridor and across to their disconnected counterpart neighbourhoods. These views are substantial, expansive and should not so

easily be lost. By instituting a continuous line of the 5 meter barriers, neighbourhoods are being permanently disconnected from their counterparts, from their expansive views, and from their context.

f. The concerns with the sound barrier walls encompass more than just the design of a single line of the shared boundary. The concerns address the loss of potential of what has been admired about the West Toronto Railpath – the new discovery of this wild urban landscape, its views and the urban forest – and the ability of a thickened boundary to encompass new linear parks that contain multi-use pathways for reconnecting streets and neighbourhoods, and pedestrian bridges that will reestablish connections broken in the last centuries. And last but not least, the ability of a linear park to create value along its edges rather than shutting down possibilities.

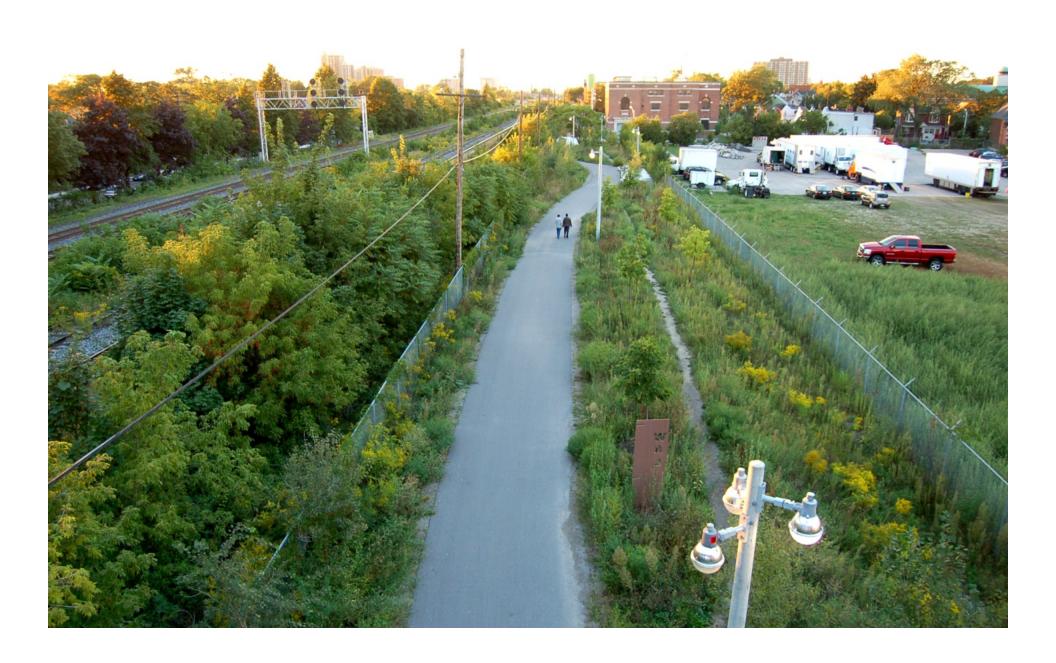
Can the walls become more finely tuned to work with each community? Can the nature of these walls be expanded to talk about connections, views, vegetations and active transportation networks. Do we need to build the maximum build-out of walls immediately for 2015, even though there is an intention to change to electric trains?

IMPLEMENTATION

- Replacing the natural urban forest that has been removed with a new urban forest. 10,000 trees instead of 500;
- More fine-tuned approach to our shared boundaries;
- Phased build-out to see what is actually necessary and desired by the community;
- Assign separate designers and budgets for each of the communities to develop their unique approach to a shared boundaries using the elements of the Urban Forest, the Green Wall, Pathways and Bridges;
- Pilot projects to look at first principles are the benefits of having sound barriers greater than the entire length of the Rail Link further dividing and compromising the quality of the neighbourhoods along it?



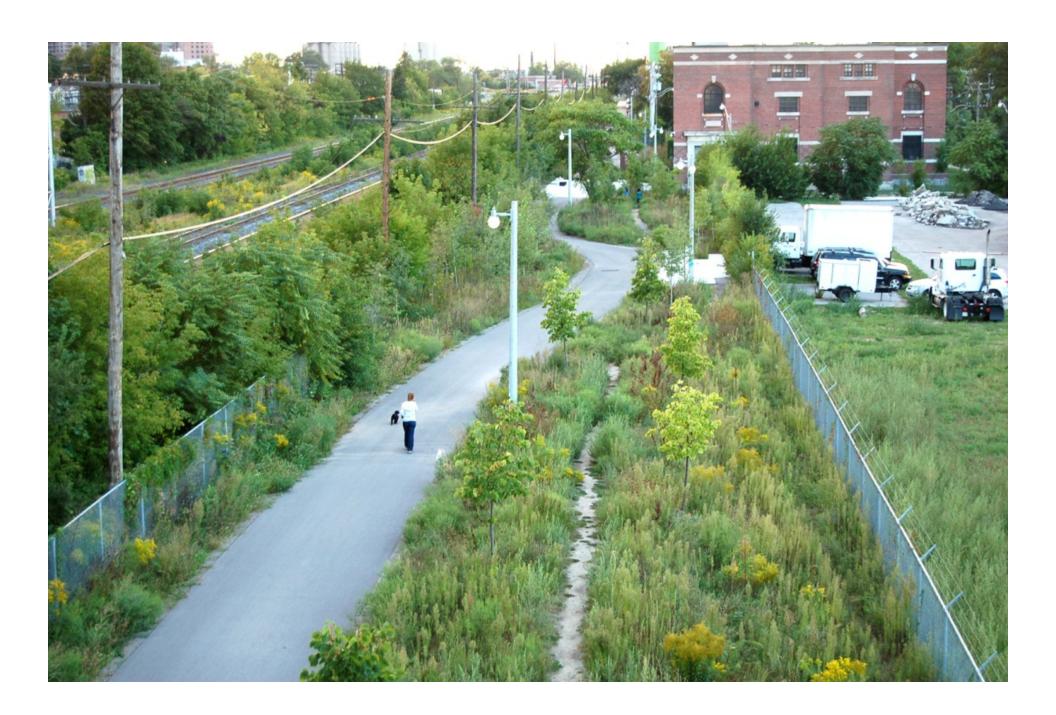








West Toronto Rail Trail Phase 1 (B+SA & STLA)

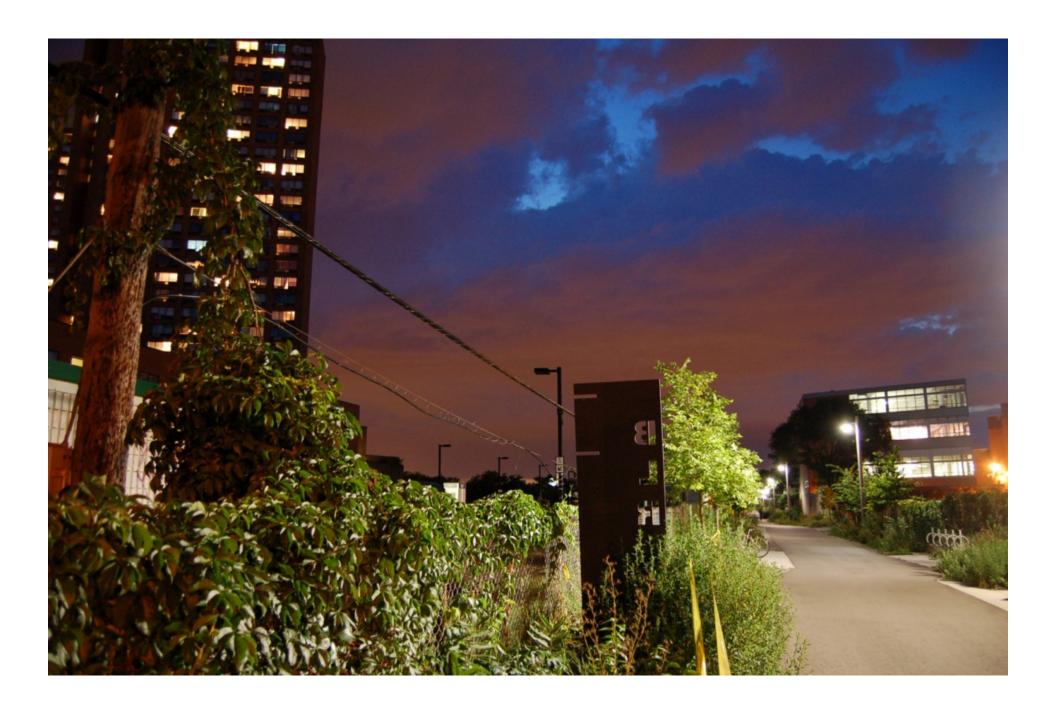


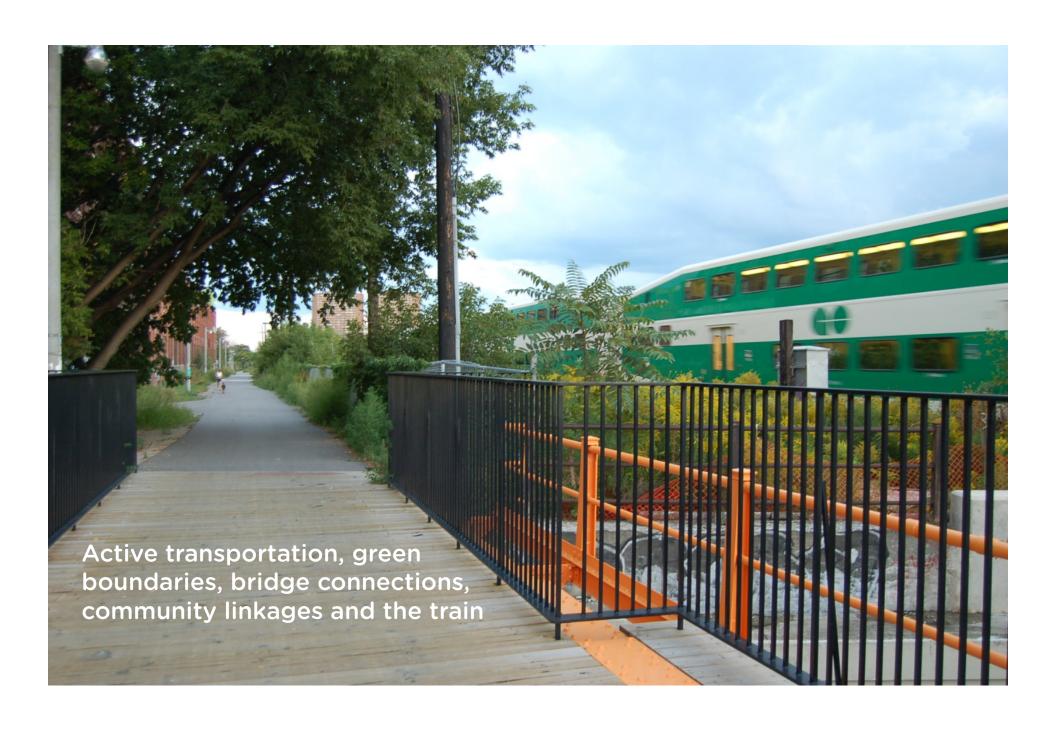










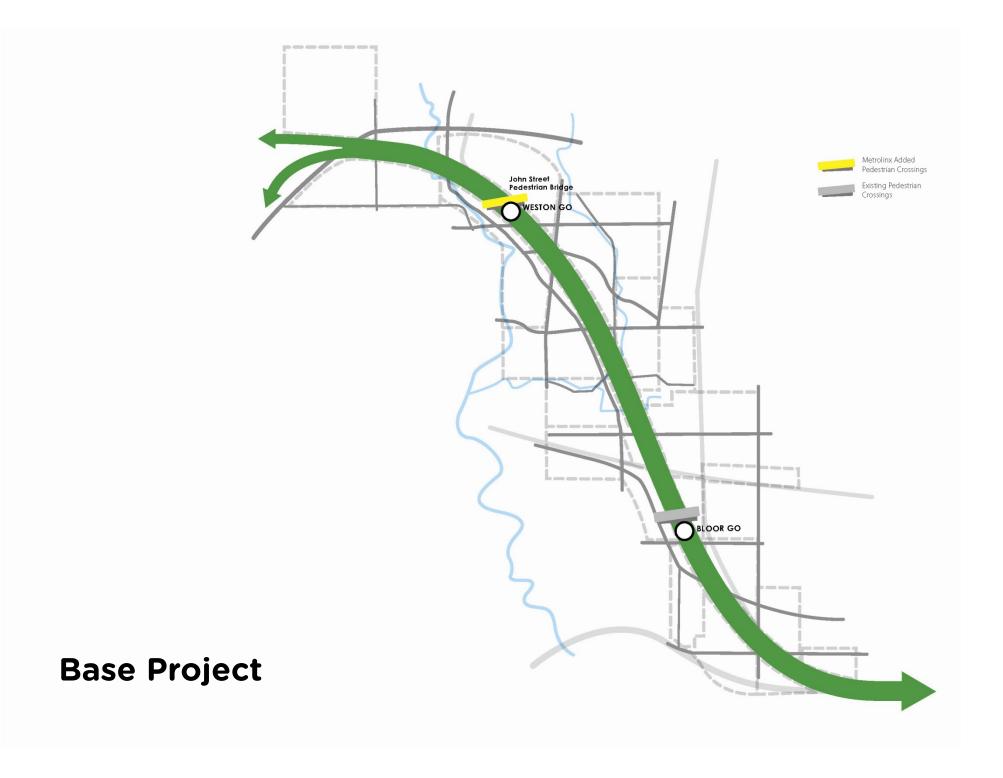


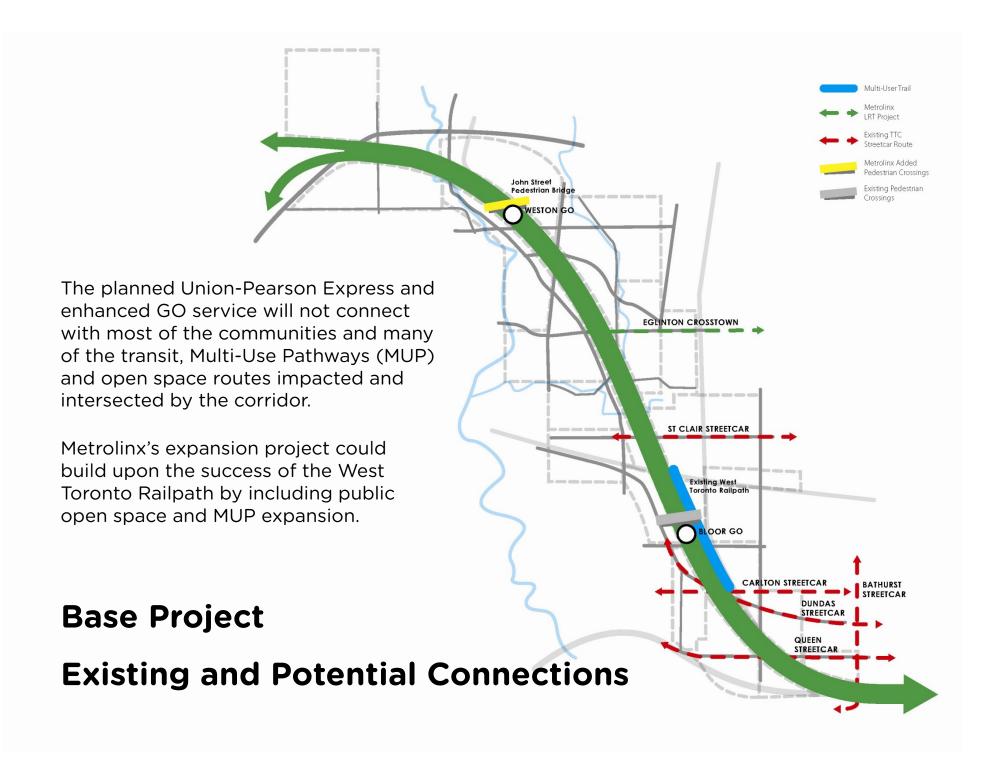


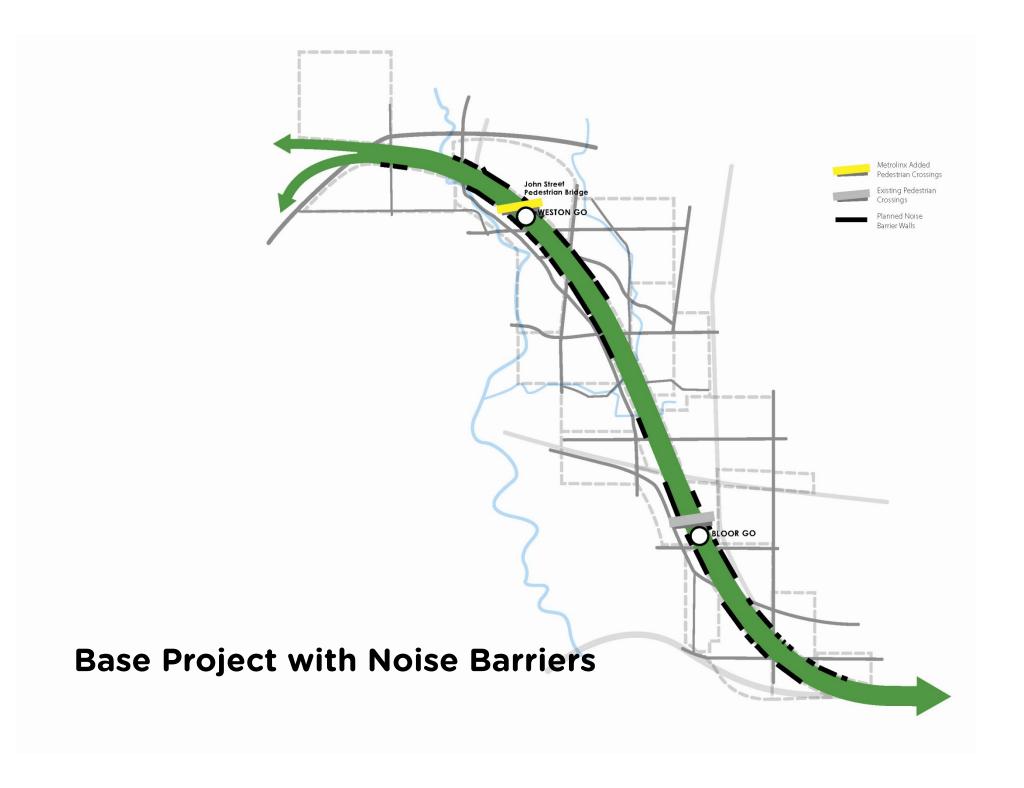


Cal-Park Tunnel Link, SMART Corridor, Marin County, CA

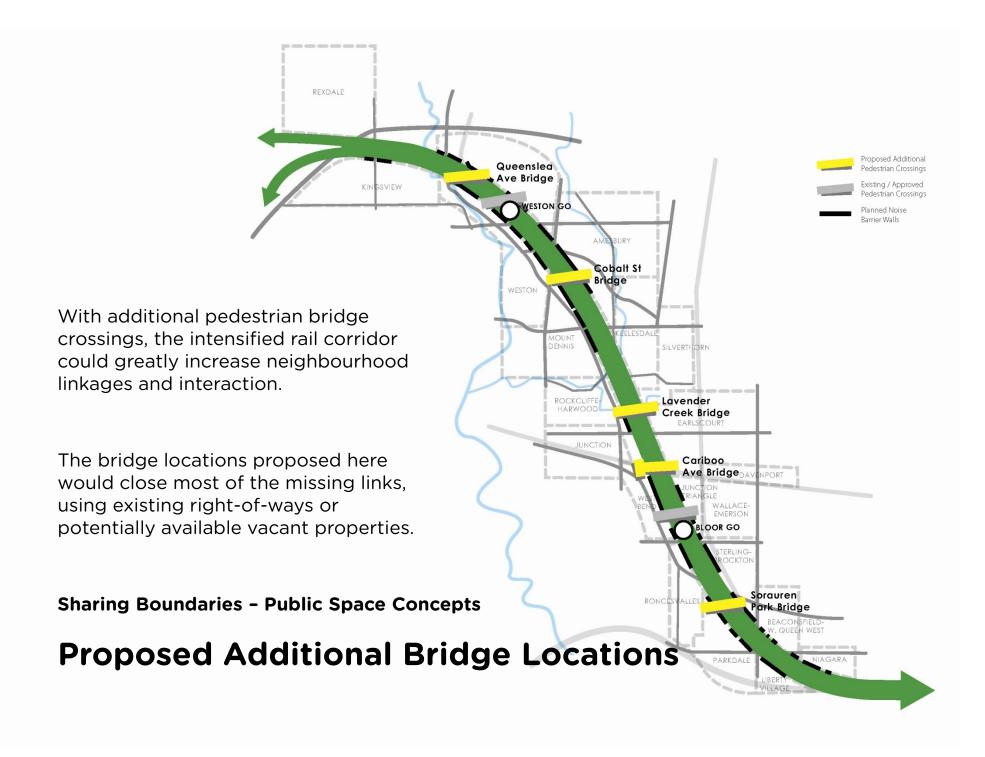


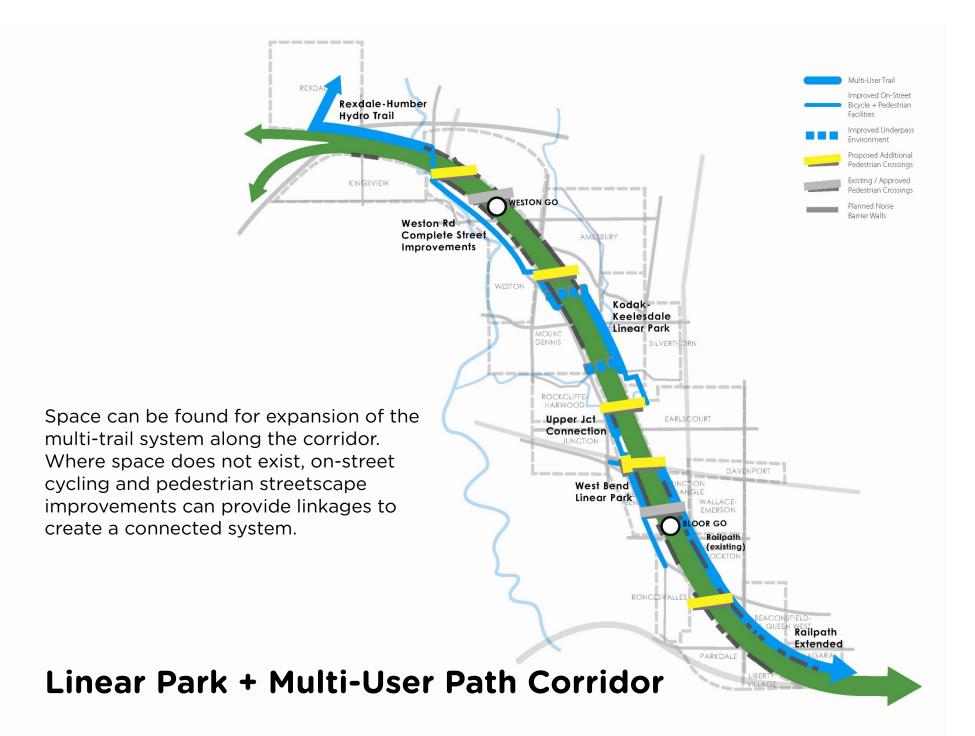


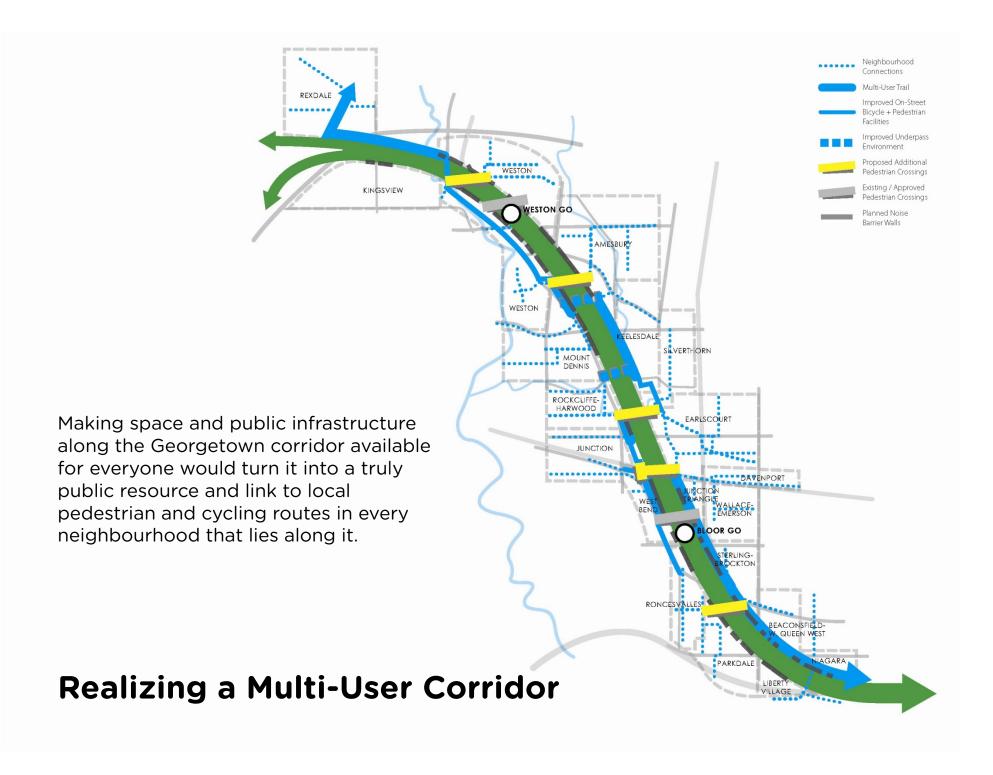


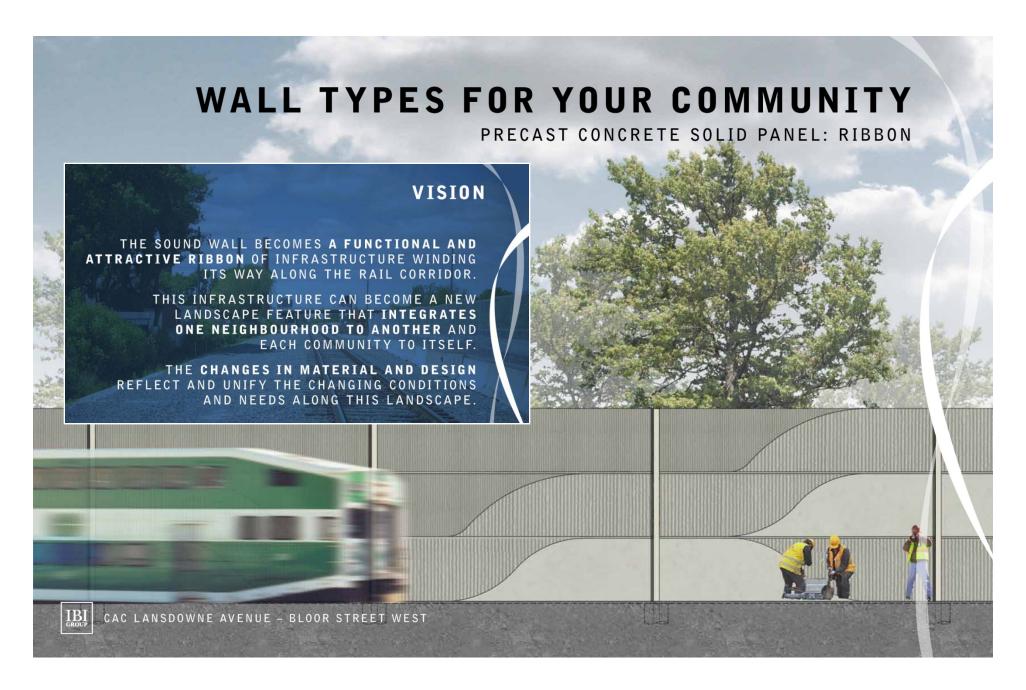












Metrolinx presentation to Community Advisory Committees (July 2013) [vision page inset added]





Original vegetation (2011), before construction activities

Nickle Street, **Mount Dennis**, view southeast



Before barrier (2013), after vegetation removal Nickle Street, **Mount Dennis**, view southeast



Metrolinx-Planned Noise Barrier (rendering)

Nickle Street, **Mount Dennis**, view southeast



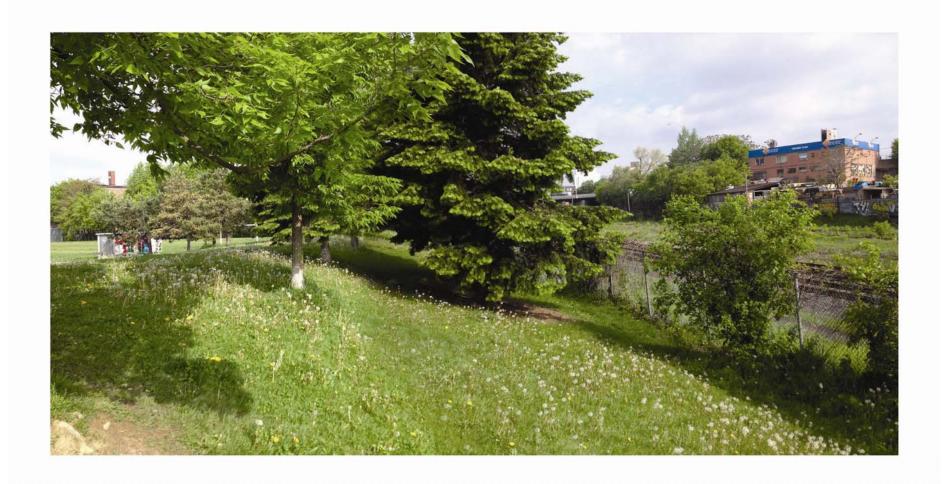
Before Barrier (2011)

Dundas Street West - West Bend, view north towards Dupont Street



Metrolinx-Planned Noise Barrier (rendering)

Dundas Street West, view north towards Dupont Street



Before Barrier (2013)

 $\textbf{Sorauren Park}, view north along corridor towards \, \textbf{Dundas Street} \, \textbf{W}$

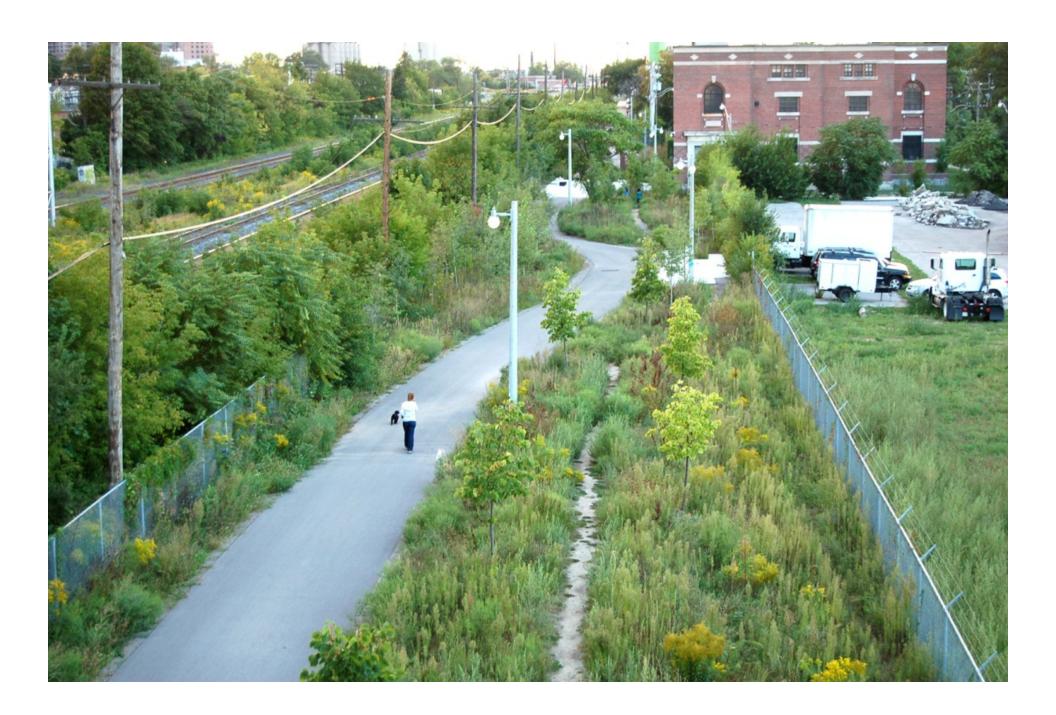


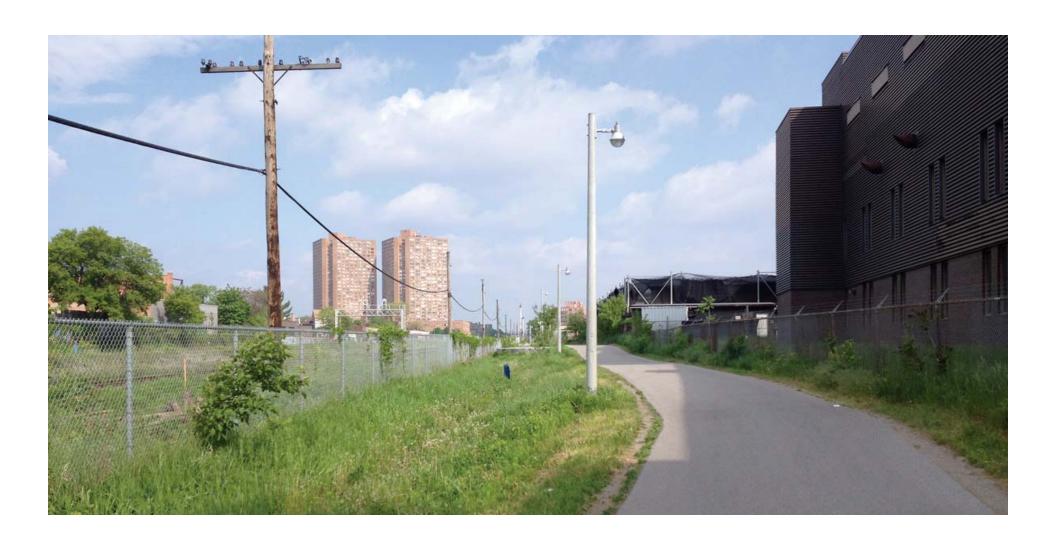
Metrolinx-Planned Noise Barrier (rendering)

 $\textbf{Sorauren Park}, view north along corridor towards \, \textbf{Dundas Street} \, \textbf{W}$





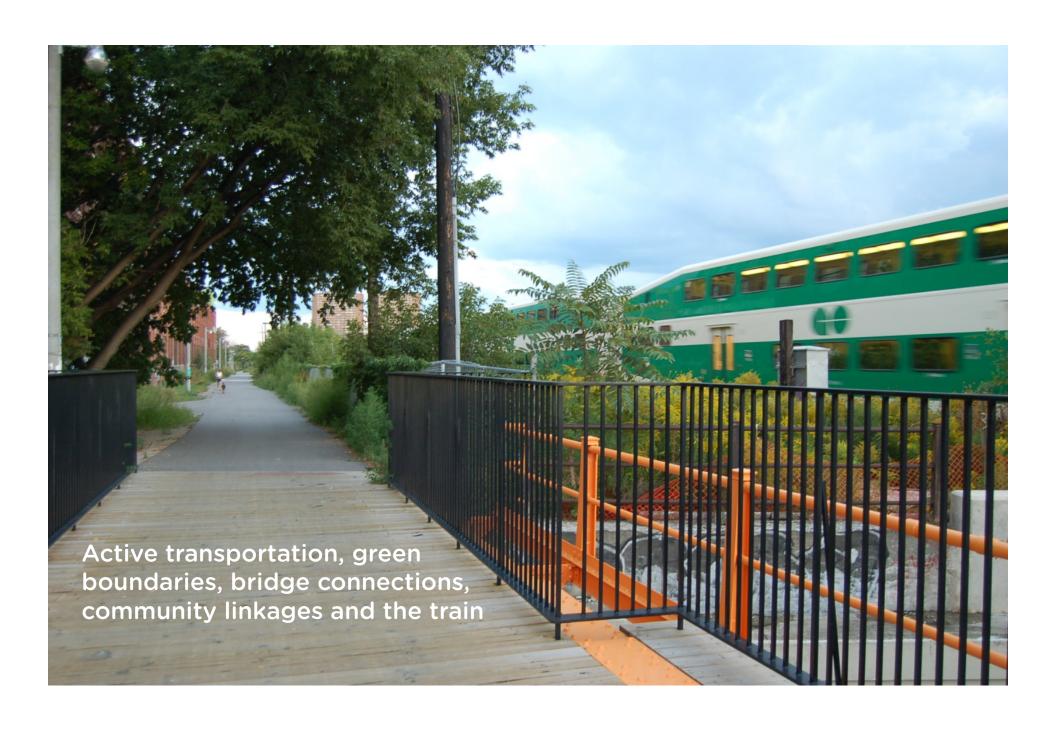


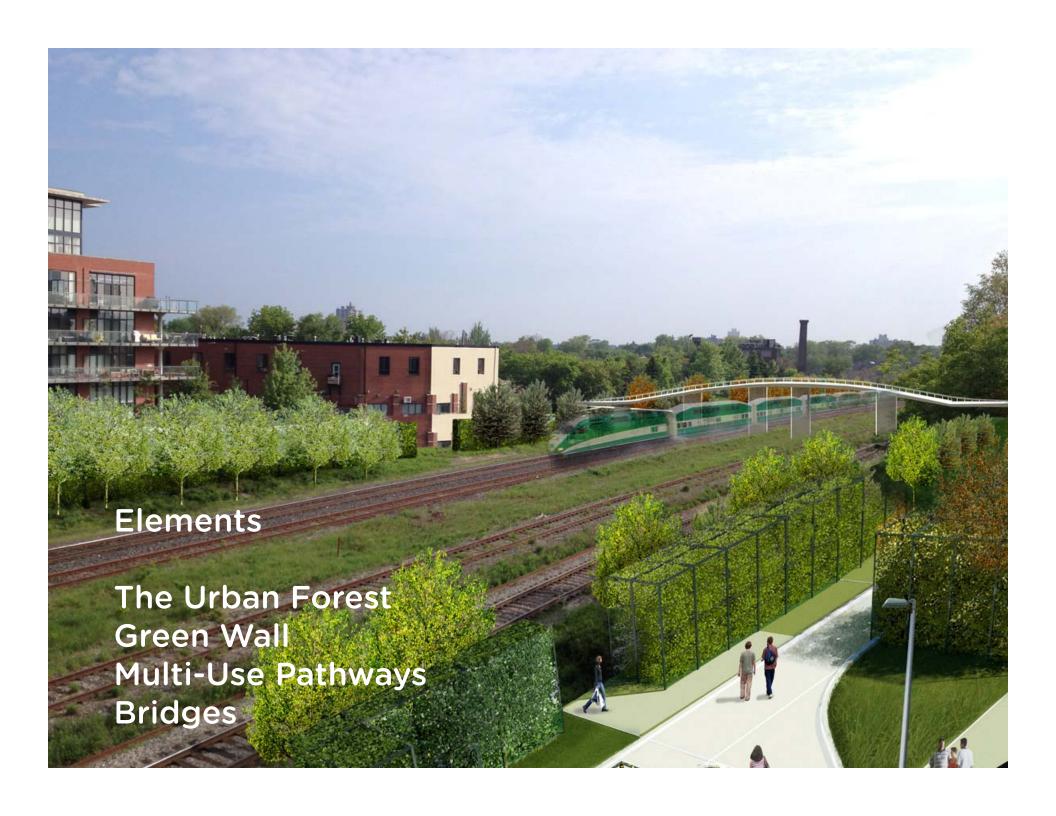




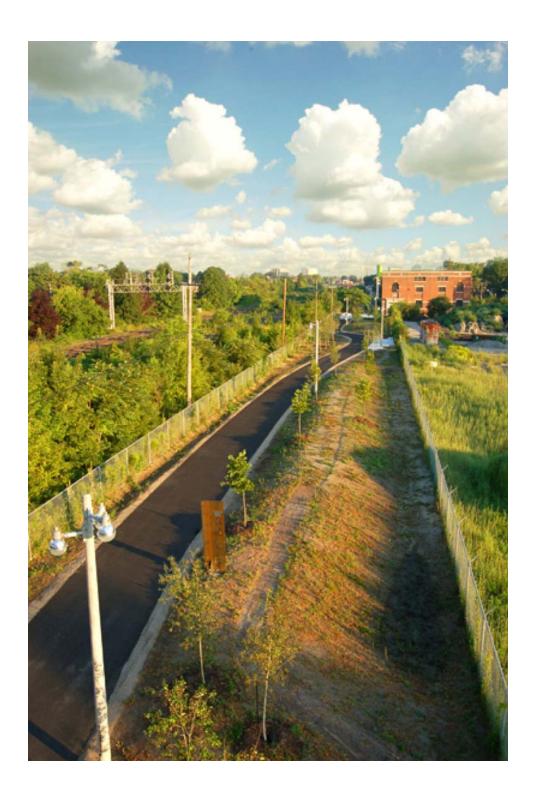
Metrolinx-Planned Noise Barrier (rendering)

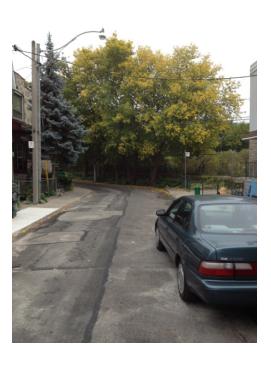
West Toronto Railpath, view north along corridor towards Bloor Street

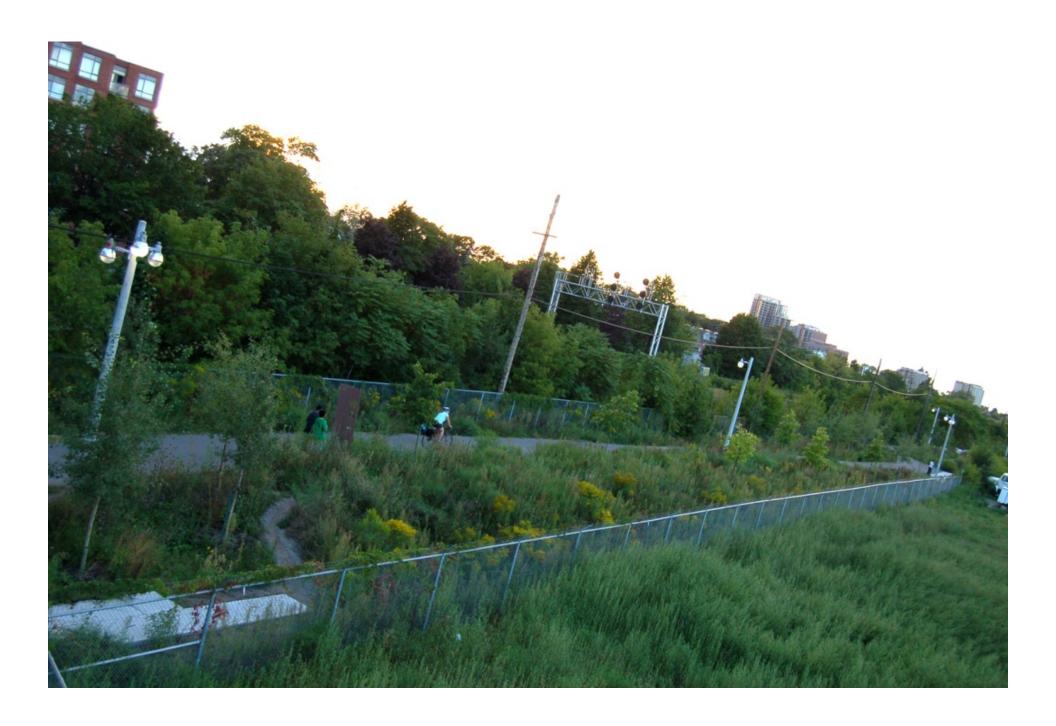






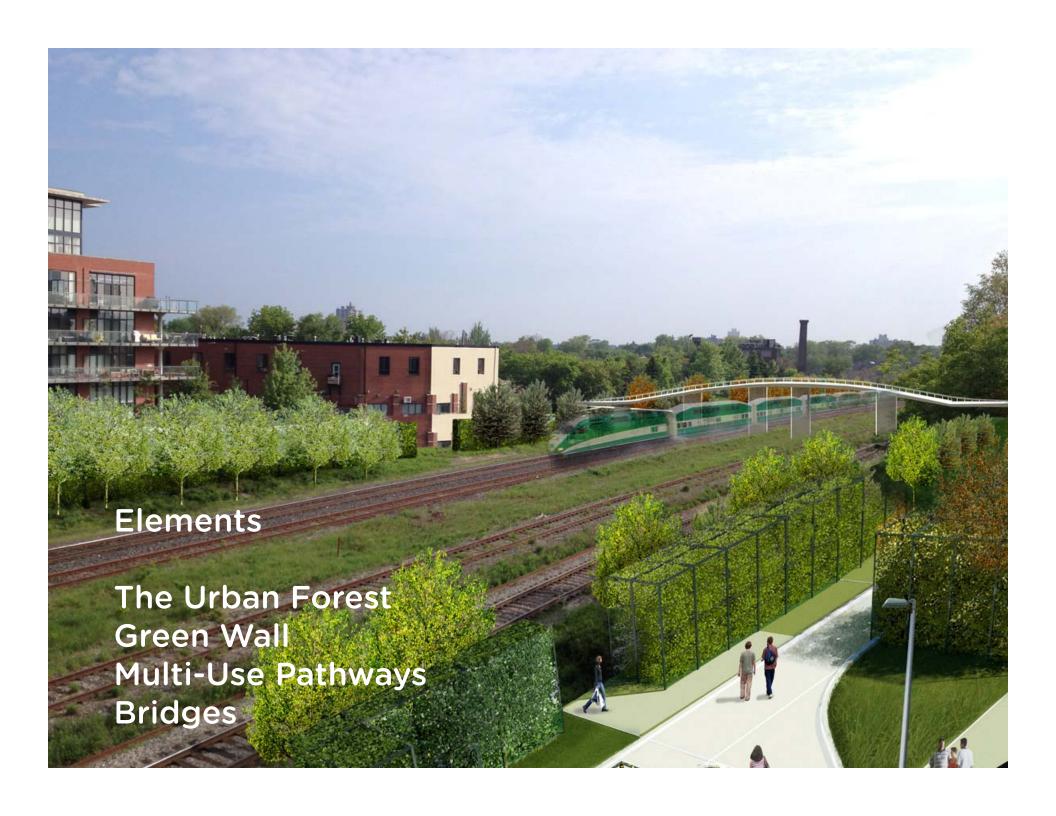
























Fully grown - Summer

The Green Wall



Gabions - Stone fill



Gabions - Brick Fill with Planting

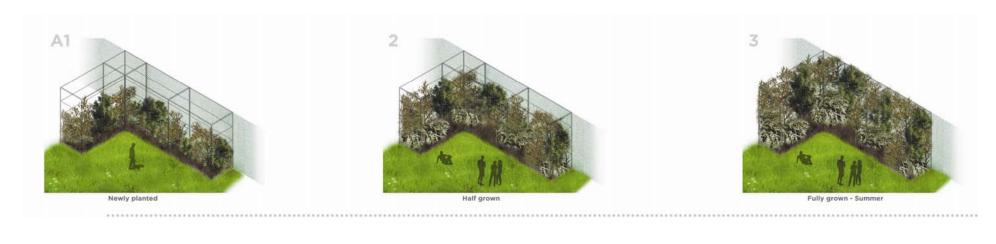


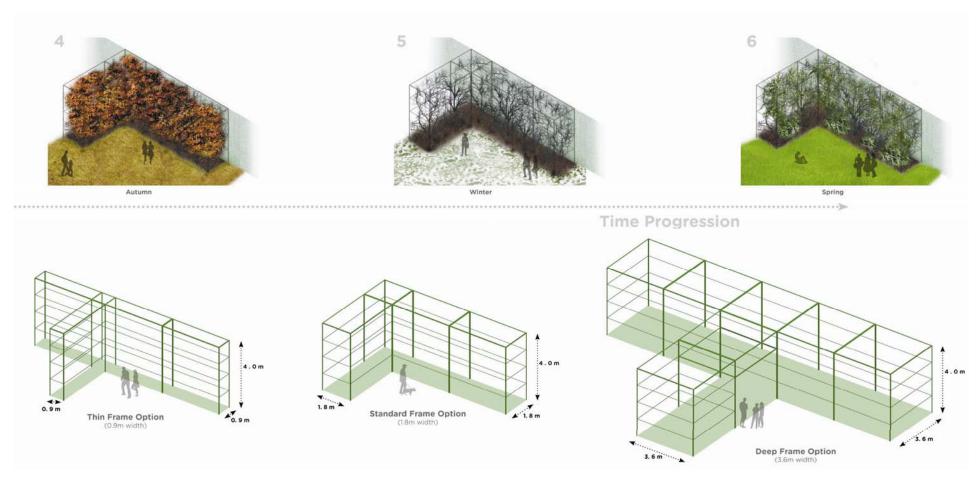
Gabions - Recycled Plastic Fill



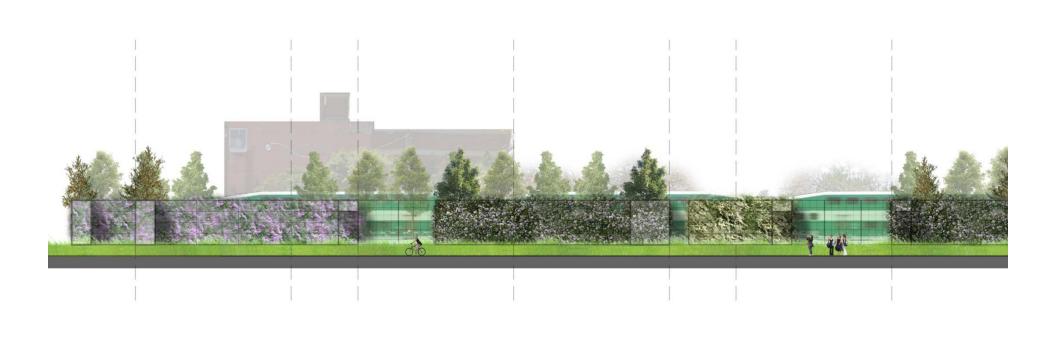
Earth Wall with Planted Face

Alternate Materials: Recycled Solid Fill











Pathways





Trails: The ability to create specialized cycling routes that can at the same time be integrated into multi-use trails for a range of speeds, and for trail 'spurs' that reach into the surrounding context to create strong linkages;



West Toronto Rail Trail Phase 1 (B+8A & STLA)

St Hilda's Walk, Toronto (B+SA)





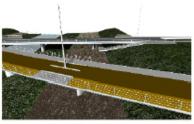








BRIDGES





TECHNOLOGY GRAPH





Lower Donlands Competition Proposal (B+8A)

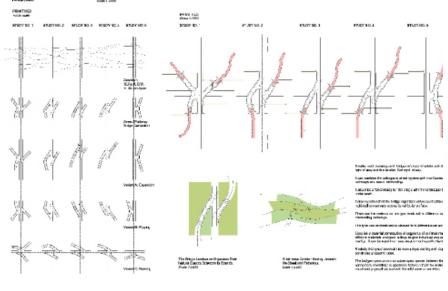




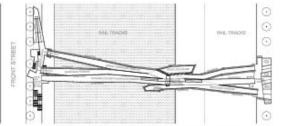


Bridges: A recognizable, imageable generous linkage between networks at many levels that can become a landmark and meeting place, serving to connect vertically and horizontally seamlessly in nodes that activate their surroundings.





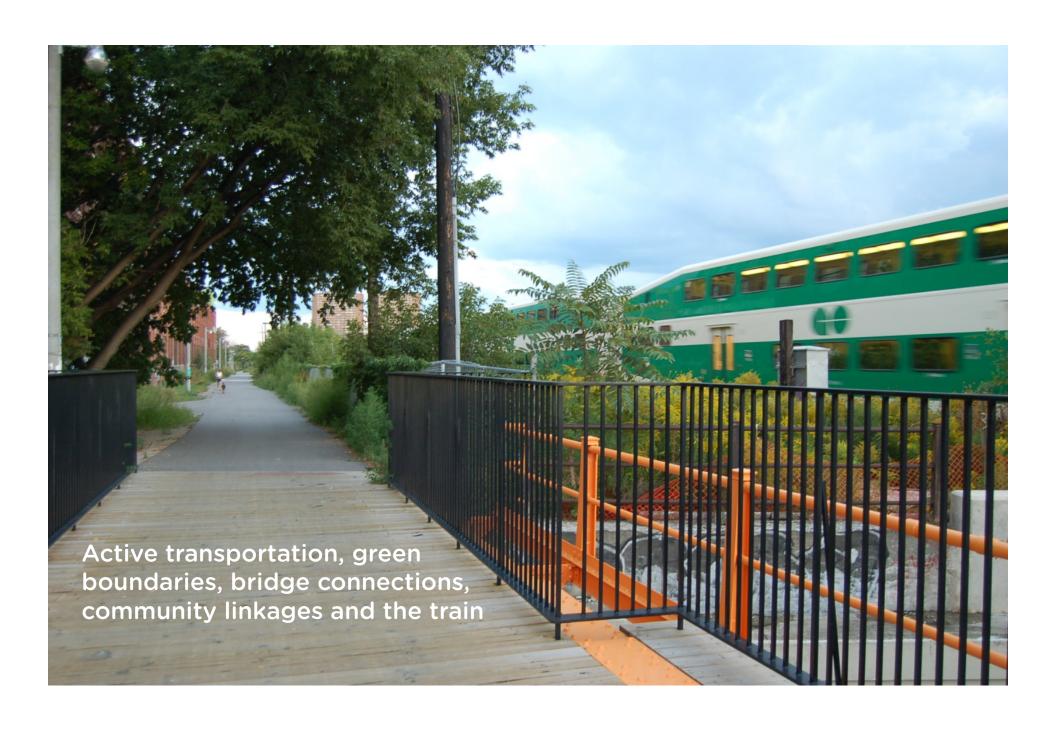






Front St Pedestrian Bridge Competition Proposal (B+8A)

Lower Donlands Competition Proposal (B+8A)





PUBLIC SCAFFOLD

There is not much to admire in Toronto's ubiquitous underpasses, nine of them creating points of disconnect along the hydro corridor. One of these, at Dovercourt, is developed here as a prototype that would necessarily be repeated for the other 8, to make the Greenlie a continuous route.

Where other cities (Chicago, NYC) developed rail systems that were raised above the level of the street, or below, the rail lines in Toronto have been taken at grade, forcing streets and sidewalks to Toronto have been taken at grade, forcing streets and sidewalks to serk below, separating neighbourhoods north from south, and cre-ating the funderpass - dark, uncomfortable and a significant tear will be underpass - dark, uncomfortable and a significant tear utilitarian infrastructure laid down with a complete divergend for streets, neighbourhoods, and city. To match a new character for the Greenline, the Dovercourt underpass prototype has been made into a positive social activator of the public realm, a linkage between the street, the bridge and the new gardens of the Green-

To bring a continuous cycling and pedestrian pathway along the length of the Greenline, cantilevered pedestrian bridging is constructed alongside the railway bridge structures. Among a carrying through the 6 of meter trajectory from one side to the other. Over the wridge, a spanning eigherment scarfold is constructed with a glass framework, built high enough to form both a generous sheltered rotted and a look-out allover. The scaffold

SCALE - 1: 250

SECTION B

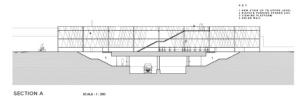
construction provides a klosk and storage space for bikes. Its golden, elaborated glass skin on the south side of the scaffold becomes both a solar collector and a new (con of a renewed sense of public space and amenity, a large scale lamp at night, lits north surface is a support for art sites, community involvement and notices, events, and advertising potentials for artists, local groups and BIA's.

In addition to the ramps from the Greenline, wide, safe pub-lic stairs connect the street to the scaffold passage, lower to upper. This important stair connection is underlined by the stairs' relationship and proximity to new 'Exchange Plazas' at street level at each side of the bridge. These hard surface at street level at each side of the bridge. These hard surface plazas are raised plints to create punctuations at the level of the street and Greenline route. These plazas, together with the scaffoding, create new landmarks in the city – new public spaces, cycling and skateboard friendly, linked directly to the Greenline with constructed hedges, light, space, resting places, belie retrials, trainst its spo, popular cales, which sales and he powercourt Exchange, popular cales, which sales and he powercourt Exchange becomes a pluralistic landmark for pas-sage east and west, north and south, up and down and across.











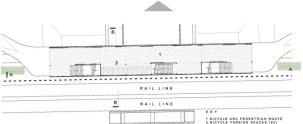


VIEW OF SOUTH ELEVATION

INTERIOR GALLERY VIEW

I NEW STAIR UP TO UPPER LEVEL
2 PLAZA / EVENT SPACE
3 STORAGE AND SACKTAGE WORKSHOP
4 PUBLIC WASHROOM
5 PUBLIC SERVING AREA / RETAIL KIOSK
5 OFFICE / PREPARATION ROOM





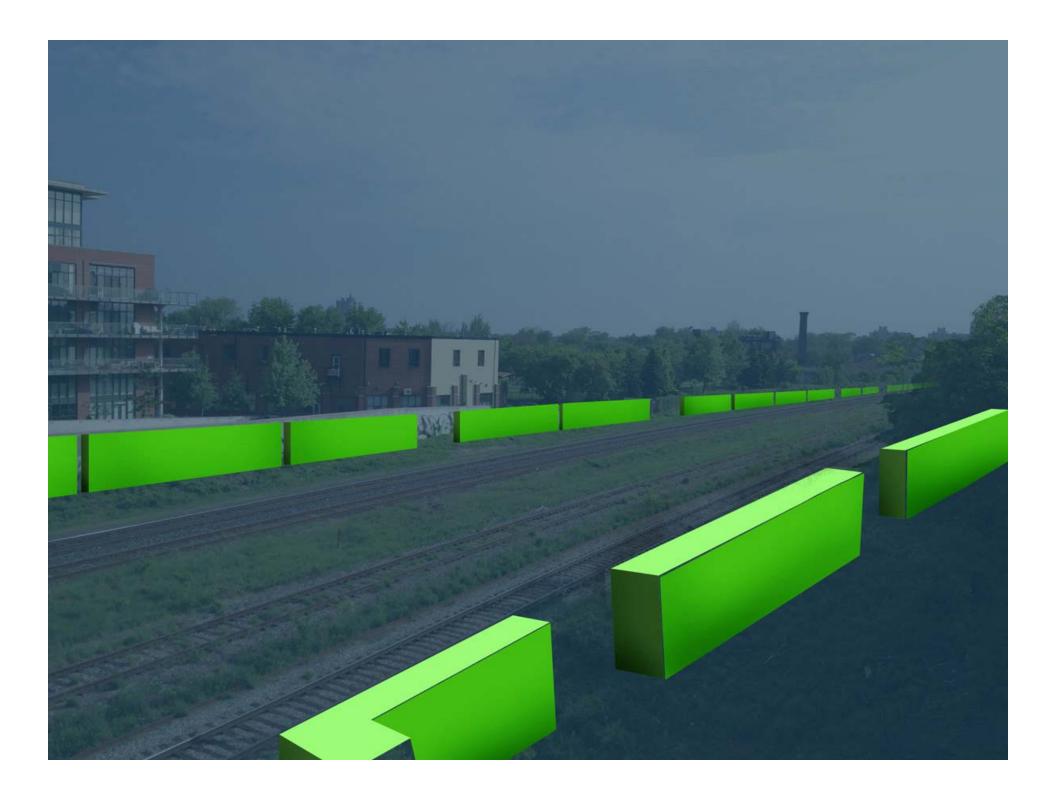


LOWER LEVEL PLAN SCALE -1: 250



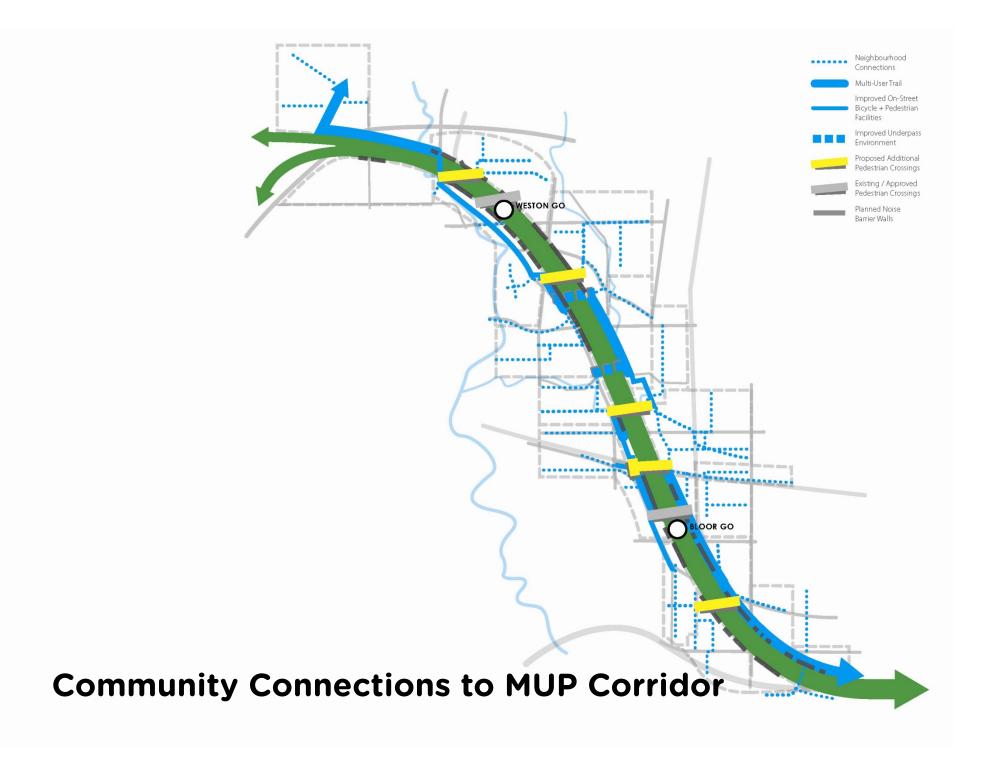


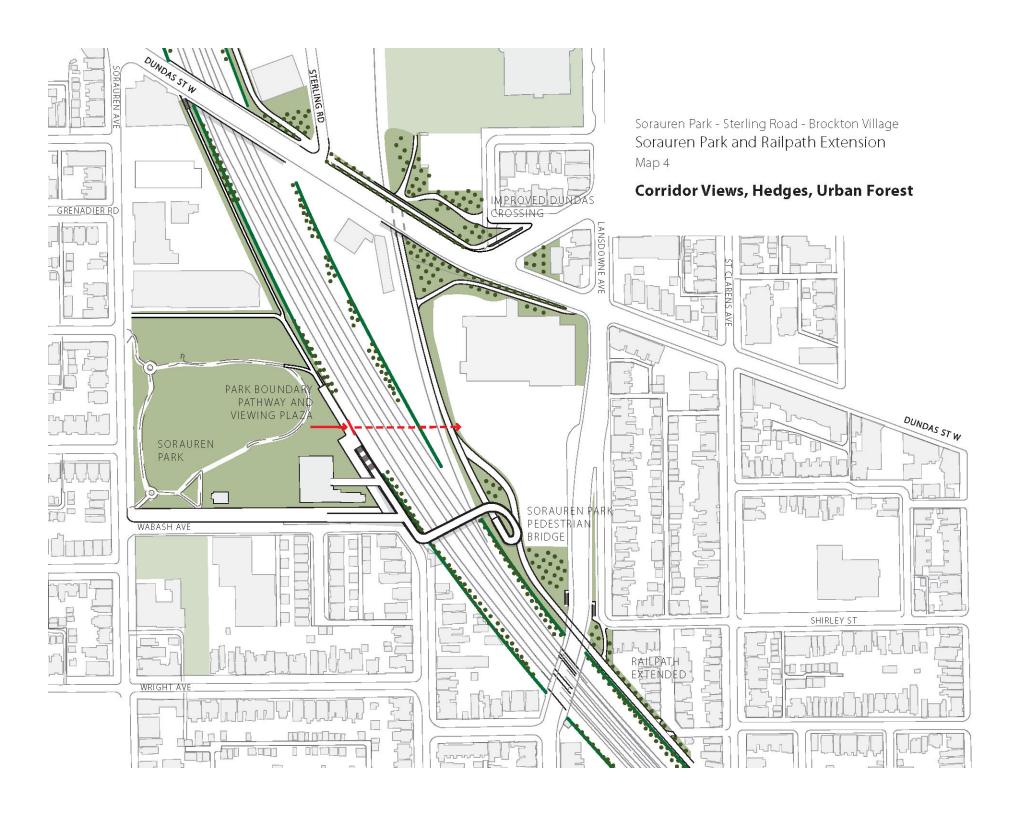


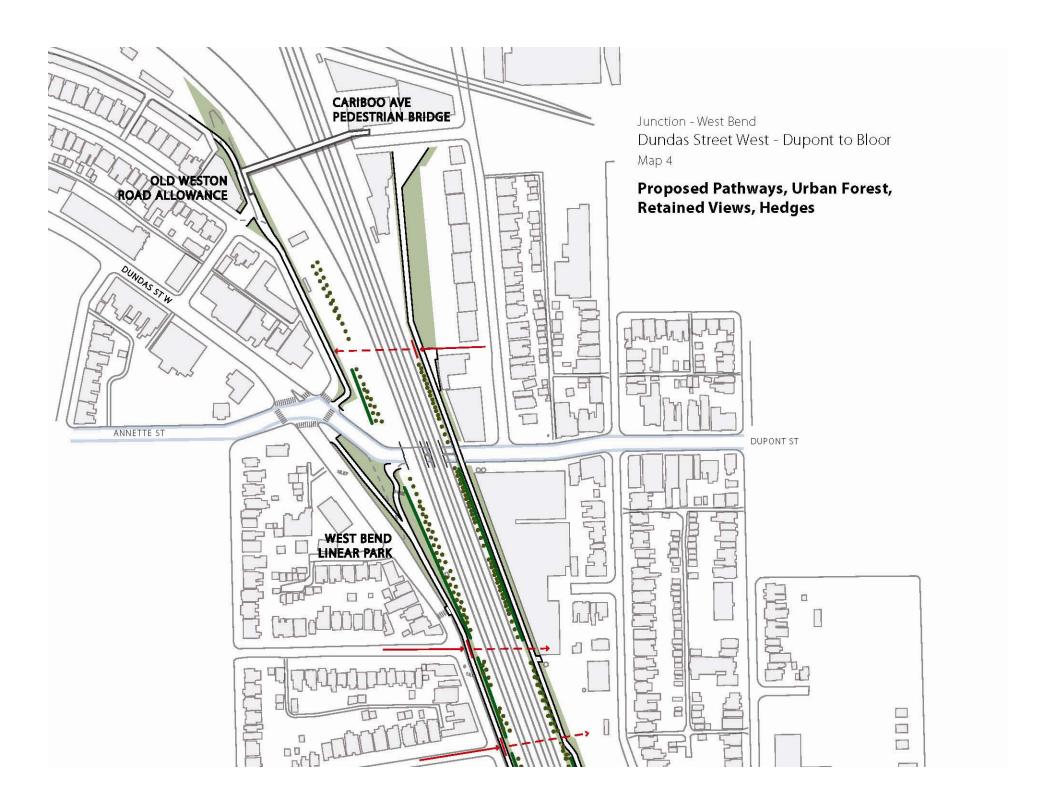


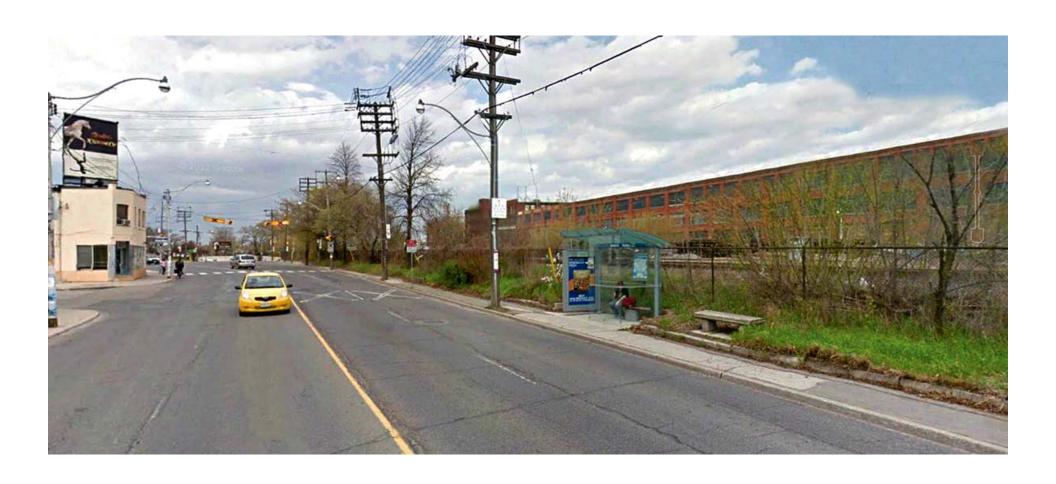








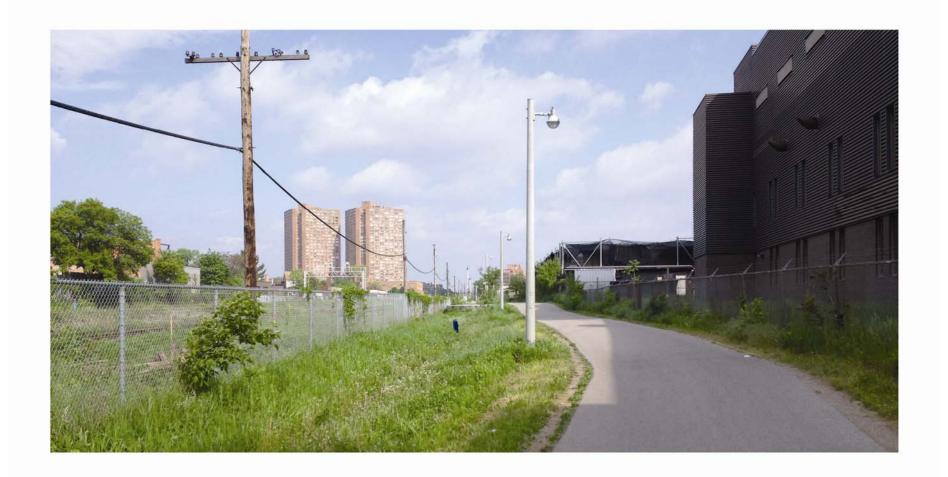












Before Barrier (2013)

West Toronto Railpath, view north along corridor towards Bloor Street





