



CONFEDERATION LINE: OTTAWA LIGHT RAIL TRANSIT PROJECT

TUNNEY'S PASTURE TO BLAIR



AGENDA & TEAM MEMBER INTRODUCTION



Agenda

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1. Introduction to RTG

2. Ottawa and RTG: Partners in a World Class Project

3. Ottawa's Confederation Line

- ❖ Confederation Line Route
- ❖ Vehicles
- ❖ Maintenance and Storage Facility
- ❖ Stations

4. Summary and Closing Comments



Introduction to RTG





Introduction to RTG



Finance



Introduction to RTG



Finance

Design & Build



Introduction to RTG



Finance

Design & Build

Maintenance



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Maintenance





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Introduction to RTG





Introduction to RTG





Introduction to RTG

World Class Expertise & Local knowledge





Introduction to RTG

World Class Expertise & Local knowledge



- More than **80 large-scale** transportation projects

- More than **\$13 billion** in work in North America in the last three years

- More than **1,360 km of tunnel**

- More than **2,500 km of rail/mass transit** projects

ACS – Dragados

‘Metro de Sevilla S.C.J.A, S.A. contributes each day to improving the mobility of the citizens of Seville, operating and maintaining Metro Line 1 following the highest quality standards. The construction works were completed in November 2009 during which Metro de Sevilla managed carefully and diligently any disruption on the citizens of Seville’

Andalucía Public Works Agency

ACS Group owns 34% of Metro de Sevilla S.C.J.A, S.A.



ACS – Dragados

*‘Barcelona Line 9 (a 48-km urban tunnel with 52 underground stations) is a clear example of successful partnership between the public and private sectors for the development of major transport infrastructures, which has resulted in **the highest standards for construction and maintenance of the line**’.*

Joan Lluís Quer. Chairman. Infrastructures Catalunya. Catalan Regional Government.

ACS owns 50% of Línea 9 Tramo 4 S.A. and Línea 9 Tramo 2 S.A



ACS – Dragados



*‘In 2009 TP Ferro completed successfully and on time the construction works of **one of the most challenging and sophisticated international railway projects**. Since then TP Ferro has been acting as infrastructure manager of this bi-national high speed connection between Figueras and Perpignan in coordination with the infrastructure managers of the adjacent networks in France and Spain. This is a clear example of **true partnership** between the private sector and the public sector of both countries’.*

Manuel Niño. Railways Director General. Ministry of Transport. Government of Spain

ACS owns 50% of TP Ferro

SNC-Lavalin

*‘The West LRT line is a shining example of our government’s commitment to **connecting residents with the people and services important to them**, and to supporting municipalities as they plan for the future’ – Alison Redford, Premier of Alberta, December 10, 2012*





*‘Certainly it was the SkyTrain and Canada Line that did most of the heavy lifting for the Games.’ – **Brian Lewis, The Province, February 28, 2010***

'... as Canada's first and only fixed link between a city and a major airport, the Canada Line is now one of Vancouver's best assets.' – **Lori Knowles, The Sudbury Star, February 27, 2010**



EllisDon

*‘EllisDon found itself in a unique situation of having to deal with four levels of ownership: GO Transit as well as the City of Toronto, CN Rail and the Toronto Transit Commission. The staff at EllisDon were extremely helpful in dealing with all four parties, and their systems and procedures **helped to streamline the process and successfully coordinate the approvals among all stakeholders.**’ - L.J. Keachie, Chief Engineer, Union Station Revitalization, Union Station Platform Improvements*





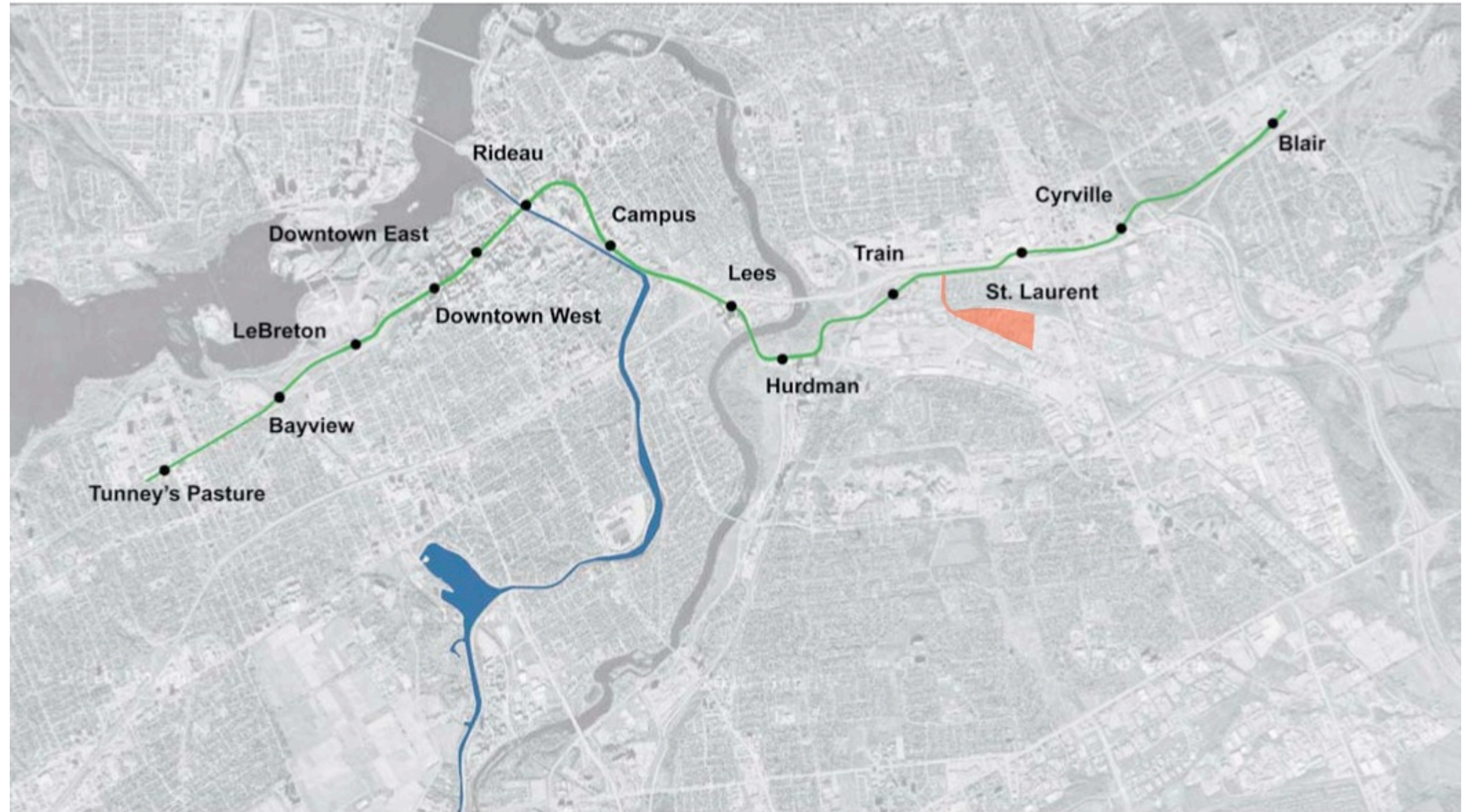
*‘Excellent. A very friendly, professional and cooperative team to work with.’ - **Stephen Choy, C.E.T, Senior Mechanical Designer, Morrison Hershfield | GTAA Automatic People Mover***





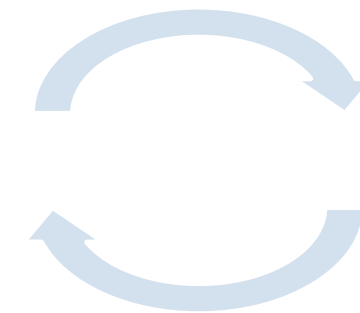
OTTAWA AND RTG: PARTNERS IN A WORLD CLASS PROJECT

Ottawa and RTG



Approach to Ottawa's Confederation Line

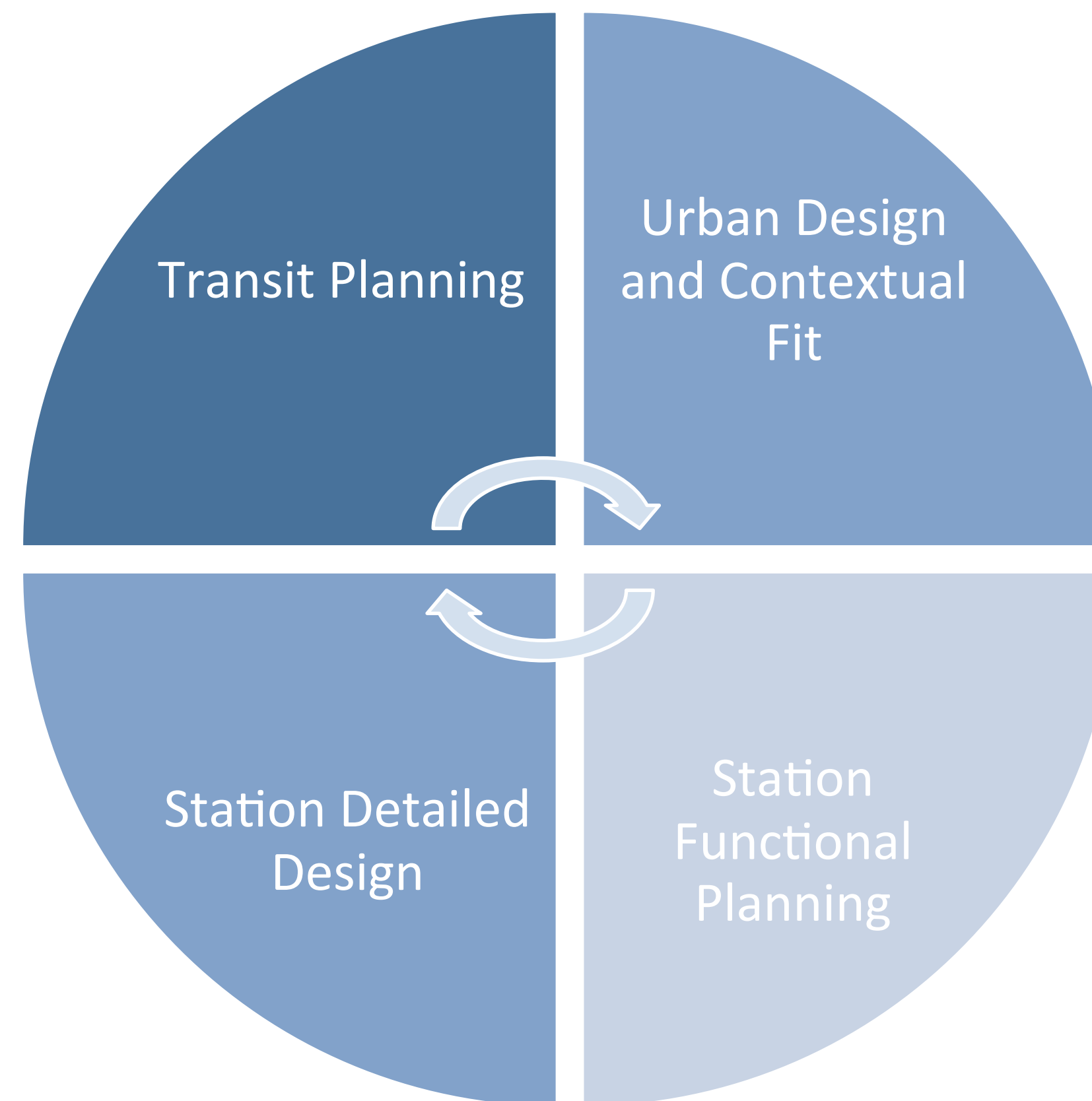
Four Tier Design Approach



- Design based on ridership demand and contextual fit
- Optimized platform sizing to suit all scenarios including ultimate
- Developed iconic architecture with consistent identity
- Stations optimized for full range of activities

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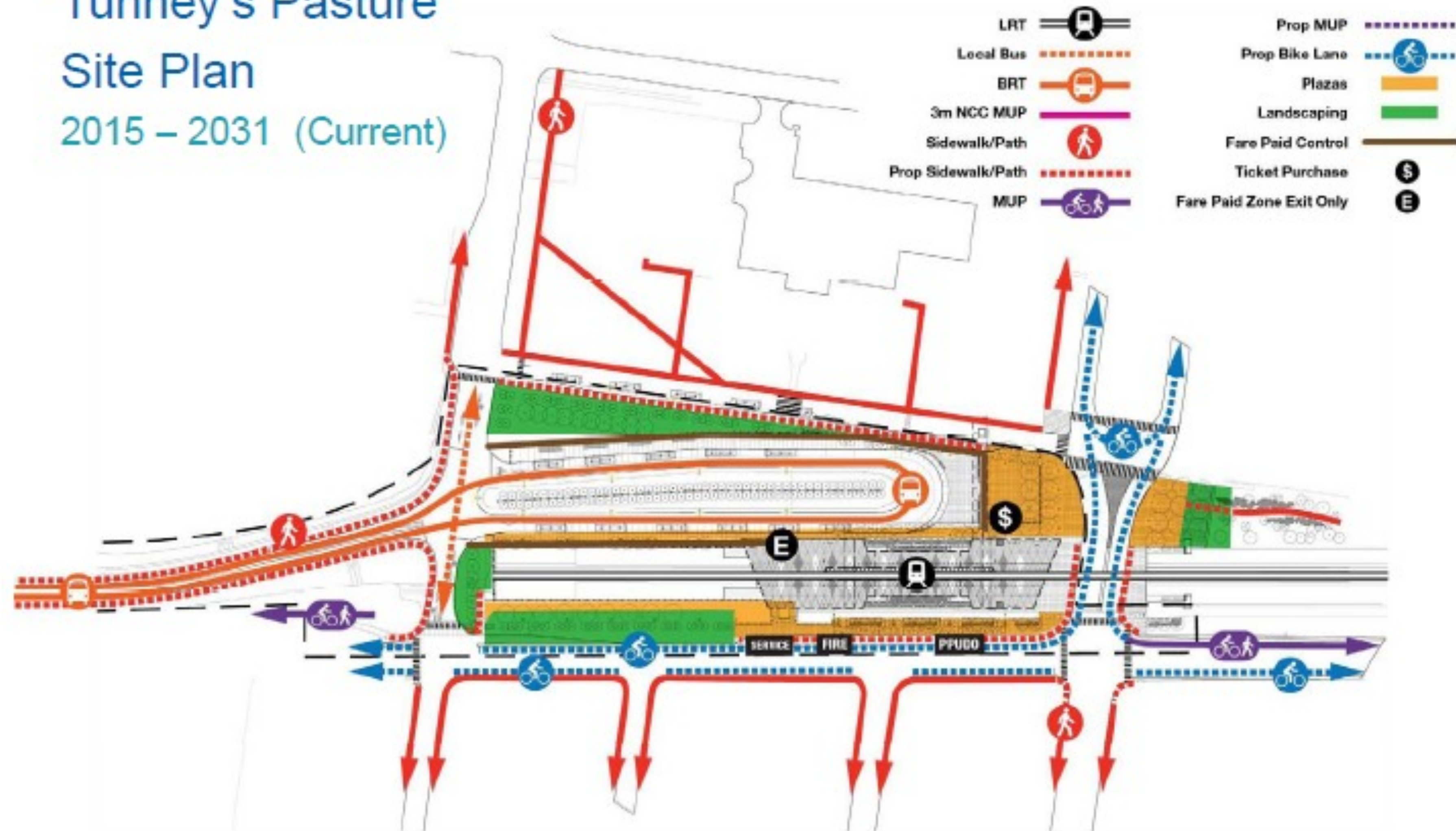
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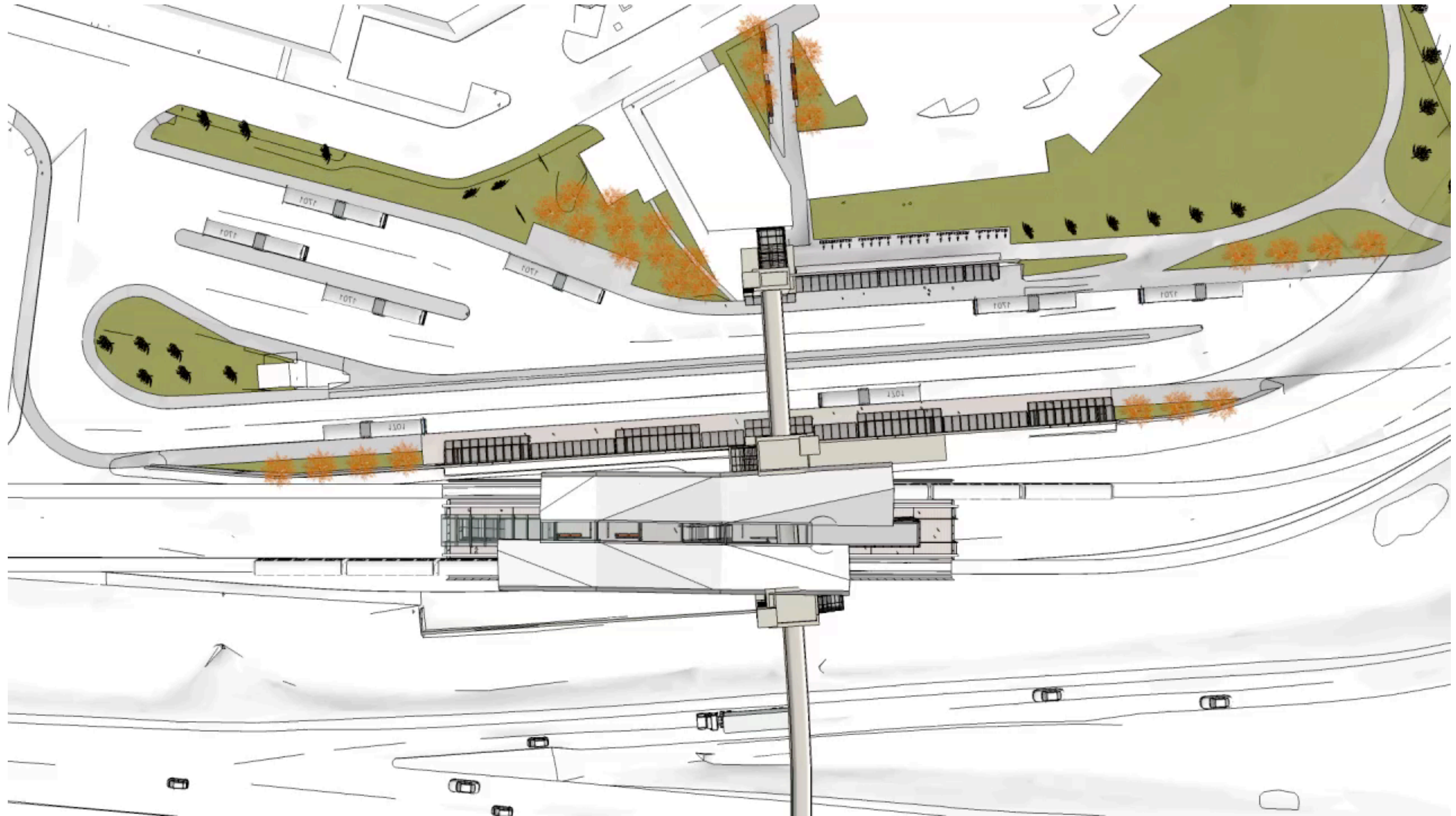
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Connections and Integration

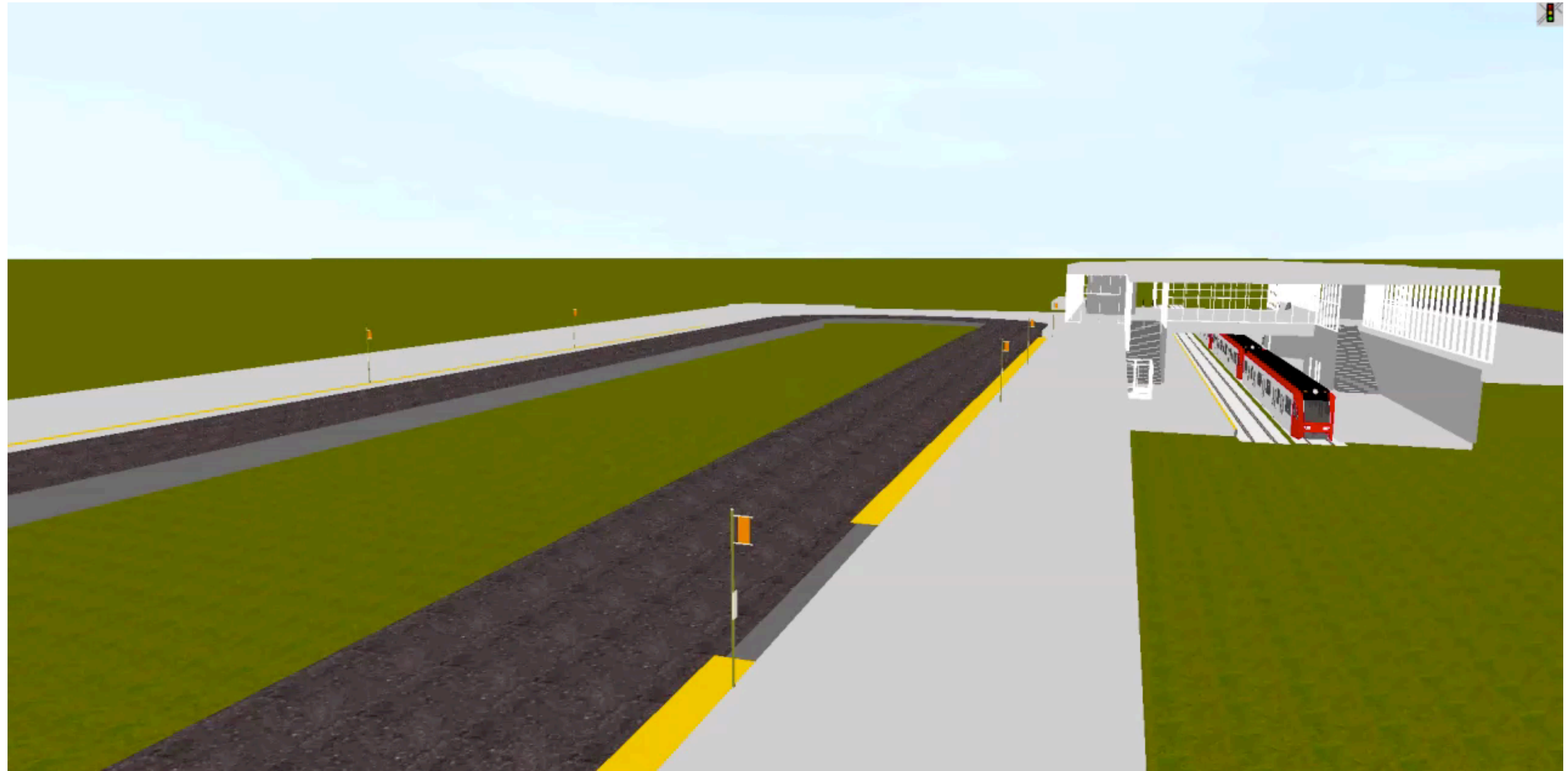
Tunney's Pasture Site Plan 2015 – 2031 (Current)



Fit for Purpose Integrated Station Design



Station Transit Integration

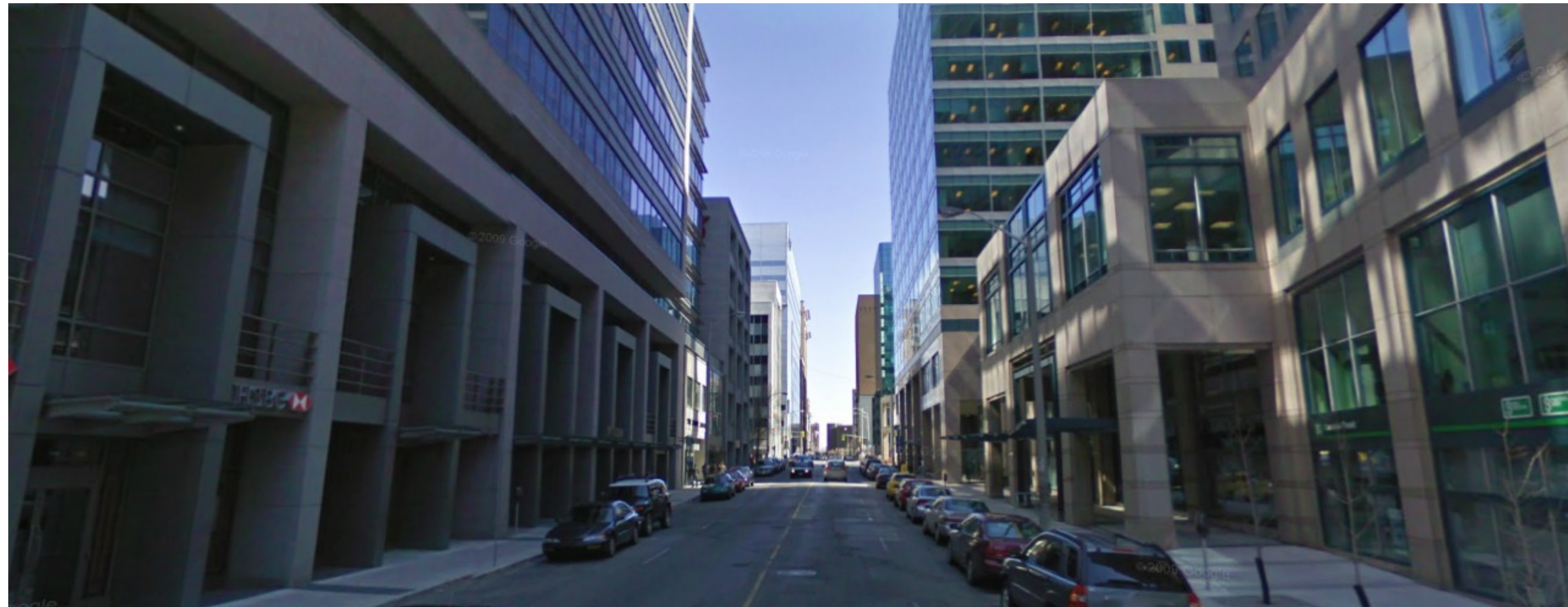




OTTAWA'S CONFEDERATION LINE

The Route: System-wide Objectives

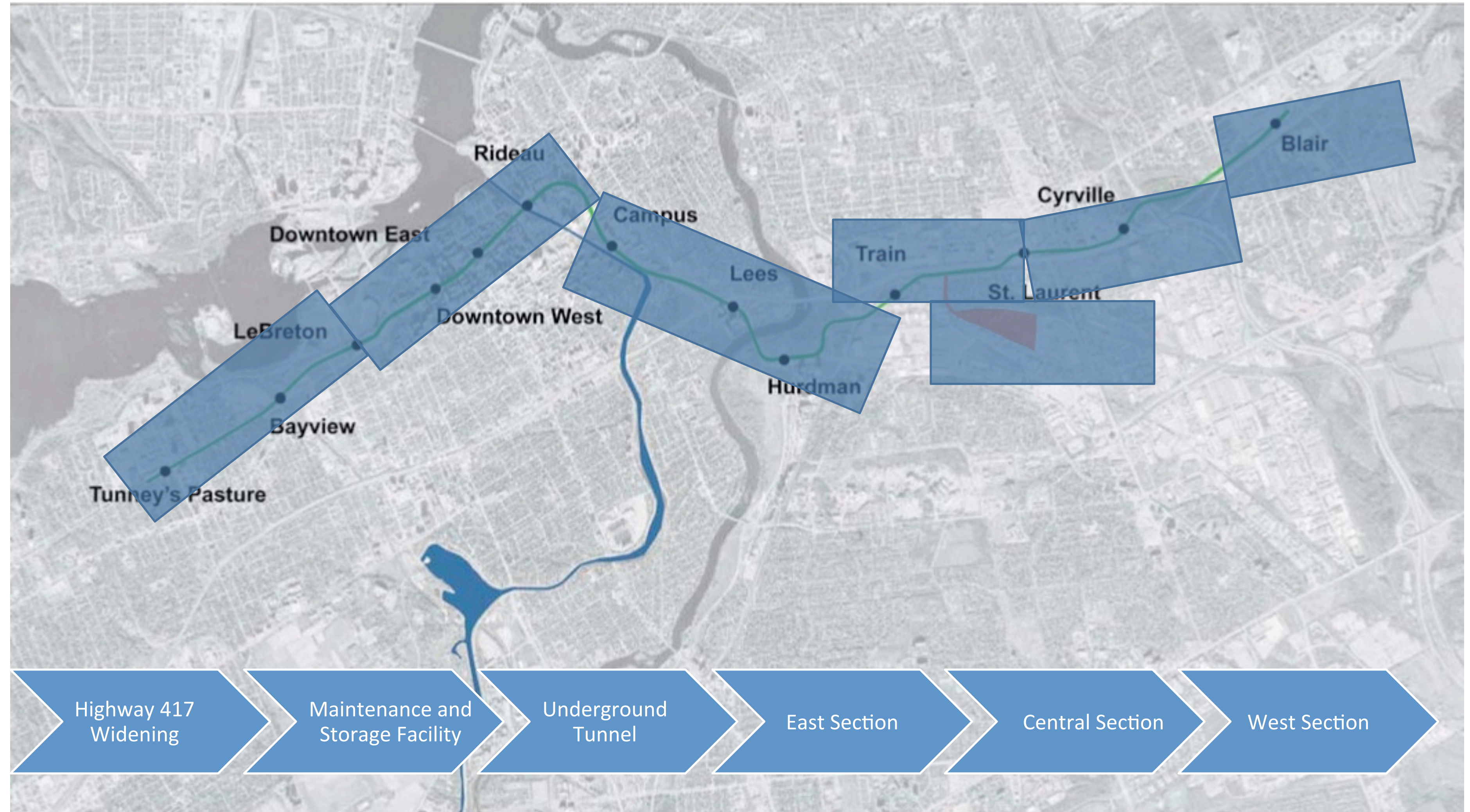
- Safety first
- BRT remains fully operational
- Minimize construction impacts
- Sustainability
- Future flexibility





The Route: Construction Stages

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The Route: Principles

- Minimizing duration of BRT lane closure
- Minimizing noise and vibration during construction
- Maintaining current noise and vibration standards during operation
- Minimizing disruption to adjacent properties
- Maintaining cyclist and pedestrian pathways during construction and operation

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The Route: West Segment

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- Rehabilitation of retaining walls
- Reconstruction of twin culvert
- Scott Street detour
- Temporary station at Bayview
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The Route: Central Underground Section

Proposed Construction Methodology – Sequential Excavation Method

- Reduced traffic impacts
- Reduced bus operations impacts
- Reduced business operation impacts
- More efficient station design
- Substantial reduction of utility impacts
- Greater Control over construction methods



Approach to Construction of Tunnels & Underground Stations

Proposed Portal and Intermediate Access Activities

- Site Office
- Site workshop
- Concrete batch plant
- Water treatment plant
- Ventilation system
- Backup power supply
- Laydown area
- Truck cleaning system

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Proposed Underground Station Configuration



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Approach to Construction of Tunnels & Underground Stations

Material Management

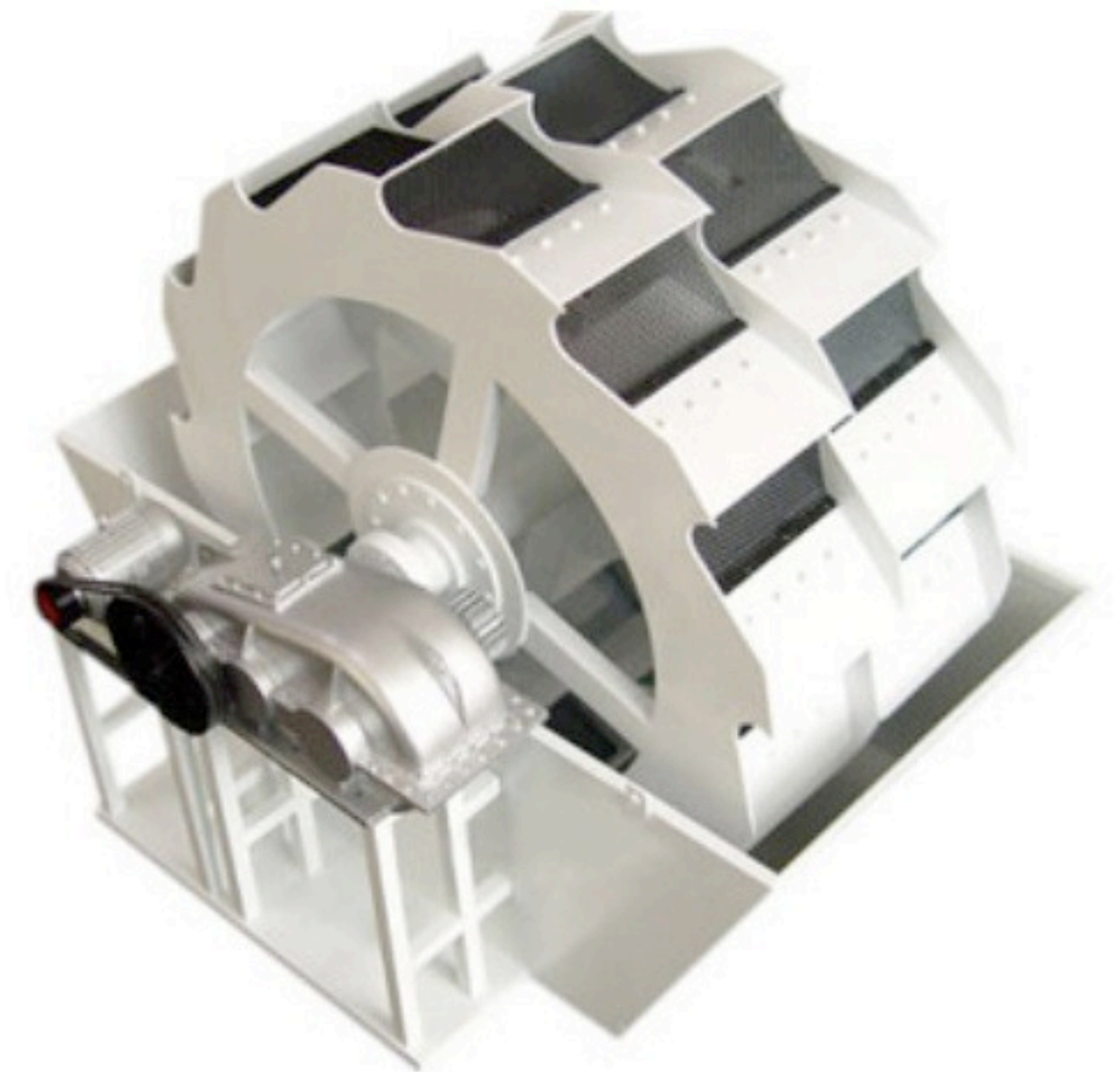
Project Sustainability

- Material from tunnel is loaded using roadheader loading bay
- Opportunity to recycle some material
- Good quality limestone sand and gravel, could be used to produce concrete
- Possible separation and cleaning process
 - Sand-Gravel separation screening
 - Bucket wheel cleaning equipment

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The Route: East Segment

- Use of transit-way to LRT construction
- Early completion of Highway 417
- Campus Station open longer and Laurier Station remains in place
- Permanent pedestrian and cyclist connection between Campus and Lees
- Maintain Hurdman and Blair Stations operational throughout construction

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VEHICLES

Vehicles



Vehicles

The Citadis: Best vehicle for Ottawa's needs

- Iconic, state of the art
- Fully integrated approach – station, vehicle, capacity
- Two vehicle consist = 6 articulated buses
- Initial 3 minute headway
- Service proven in similar climate

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System-wide Safety

- Tactile warning strips, wayfinding and signage contribute to safety at stations
- Guideway will be fenced to prevent intrusion and ensure safety along the route
- Overhead catenary wires instead of those at track-level
- Safety of vehicle and train control systems – vehicle can stop quickly
- Special provisions in tunnel – ventilation

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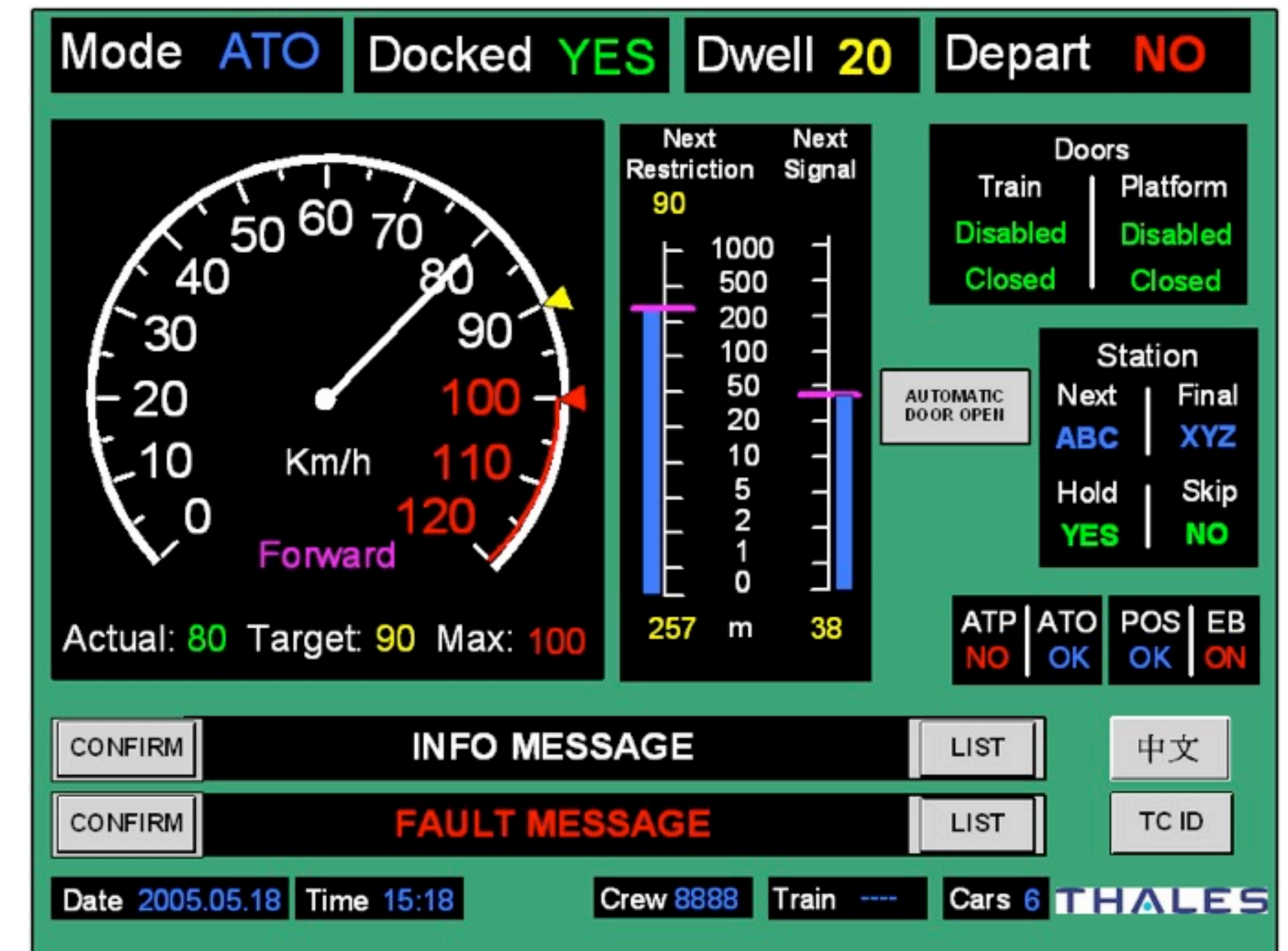


Train Control Safety

- Constantly monitors location of vehicles
- Ensure safe distances
- Controls speed and vehicle functions

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MAINTENANCE AND STORAGE FACILITY

Maintenance and Storage Facility

Overarching Principles

- Safety and security
- Integration with transit network
- Efficient layout and workflow processes
- Site that is flexible and expandable
- Sustainable design
- Being a good neighbour for 35 years

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Scope of Maintenance Services

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Systems

- Traction power
- Train Control System
- Communications

Track

- Mainline, yard and storage track
- Switches and crossovers

Vehicle

- Vehicle Cleaning
- Vehicle Maintenance

Facilities

- Maintenance Storage Facility
- Train Control Centre

Stations

- Electrical, mechanical systems
- Elevators and escalators
- Structural elements
- Architecture and Landscaping

Tunnel

- Structural maintenance
- Drainage
- Fire and Safety features

Structures

- Bridges
- Retaining Walls
- Drainage

Alignment

- Vegetation and debris Control
- Fencing
- Snow and Ice removal
- Drainage

Help Desk

- Enquiries and service requests
- Monitoring and Notification
- Notification of emergencies
- Lost and found

Vandalism and Graffiti

- Response to vandalism acts and removal of graffiti



STATION DESIGN



design |də'zīn|

noun

1. • the art or action of conceiving of and producing a plan, drawing or concept: *good design can help the user better understand complicated information or ideas*



Multiple Clients / *Synthesizing all Stakeholder's Objectives*



Ridership Experience

Ridership Experience

intuitive orientation
humane
comfortable
safe & accessible

stations which allow riders to take ownership of them not as transit stations but as engaging community spaces and places

stations which explain themselves from a block away



Ottawa the City & G8 Capital

Brand represents the city and Capital's core values (sustainable development progressive design, considered growth)

Not a series of stations but a continuous Civic building with entrance and forecourts in the communities it serves

As a civic building it should be an ambassador tells stories literally and subliminally about our city engages the public intellectually and emotionally

Needs both urban and architectural legibility and continuity i.e. iconic and yet familiar and friendly



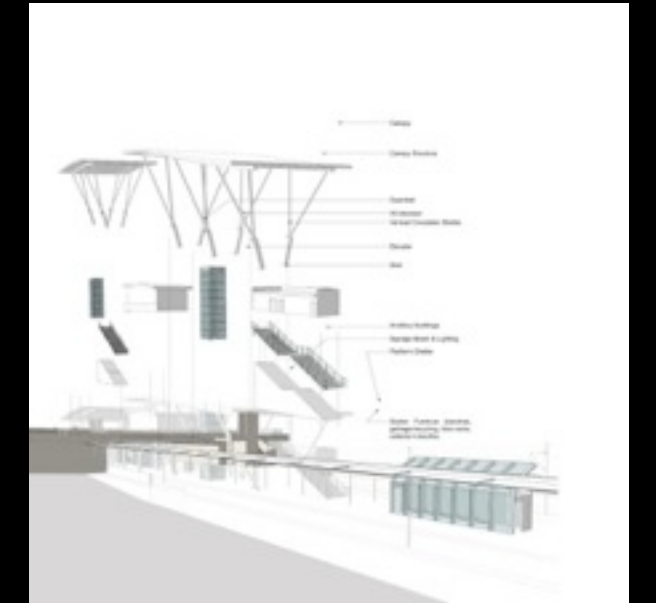
OC Transpo

Business Driven

Marketable / engages the public fosters ridership

Manageable / efficient / logically organized

Maintainable / standardized / designed longevity



Rideau Transit Group

Affordable

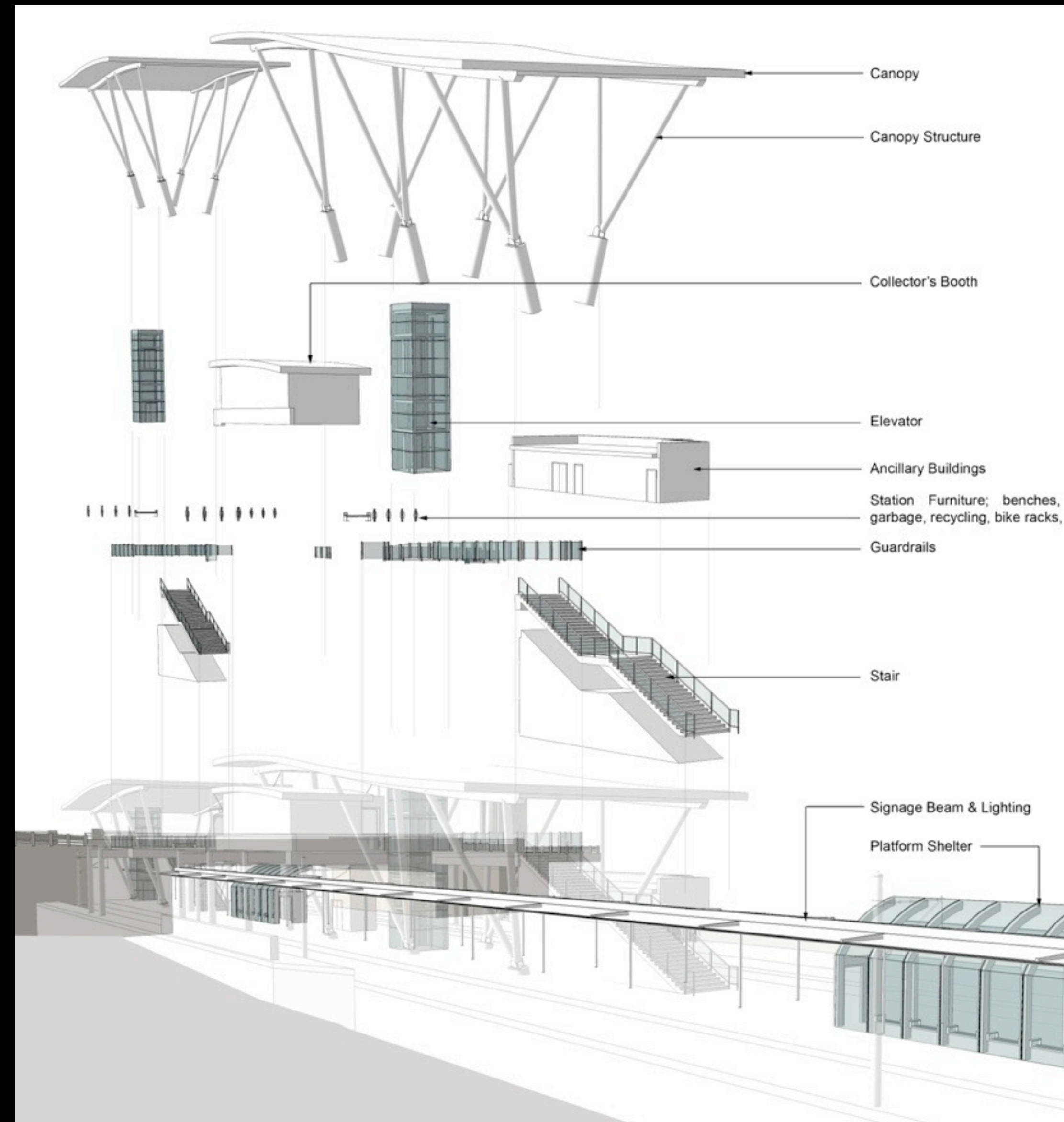
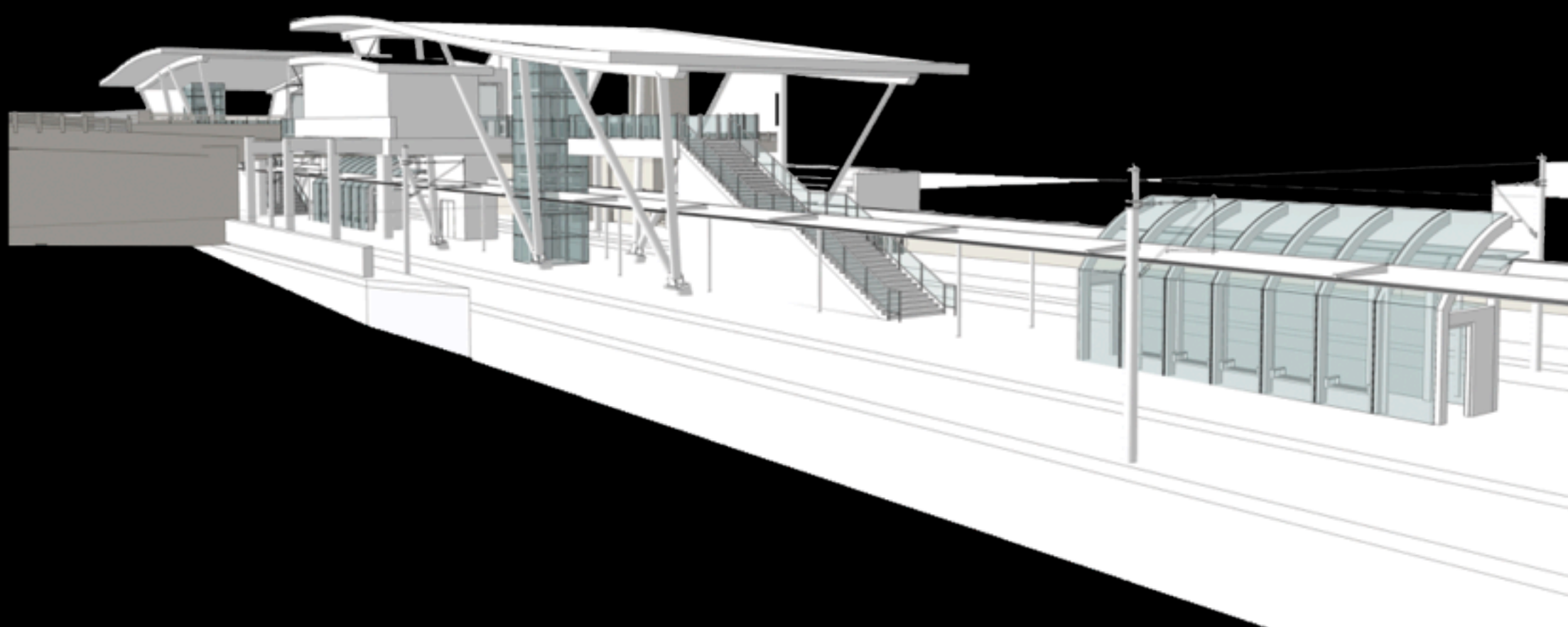
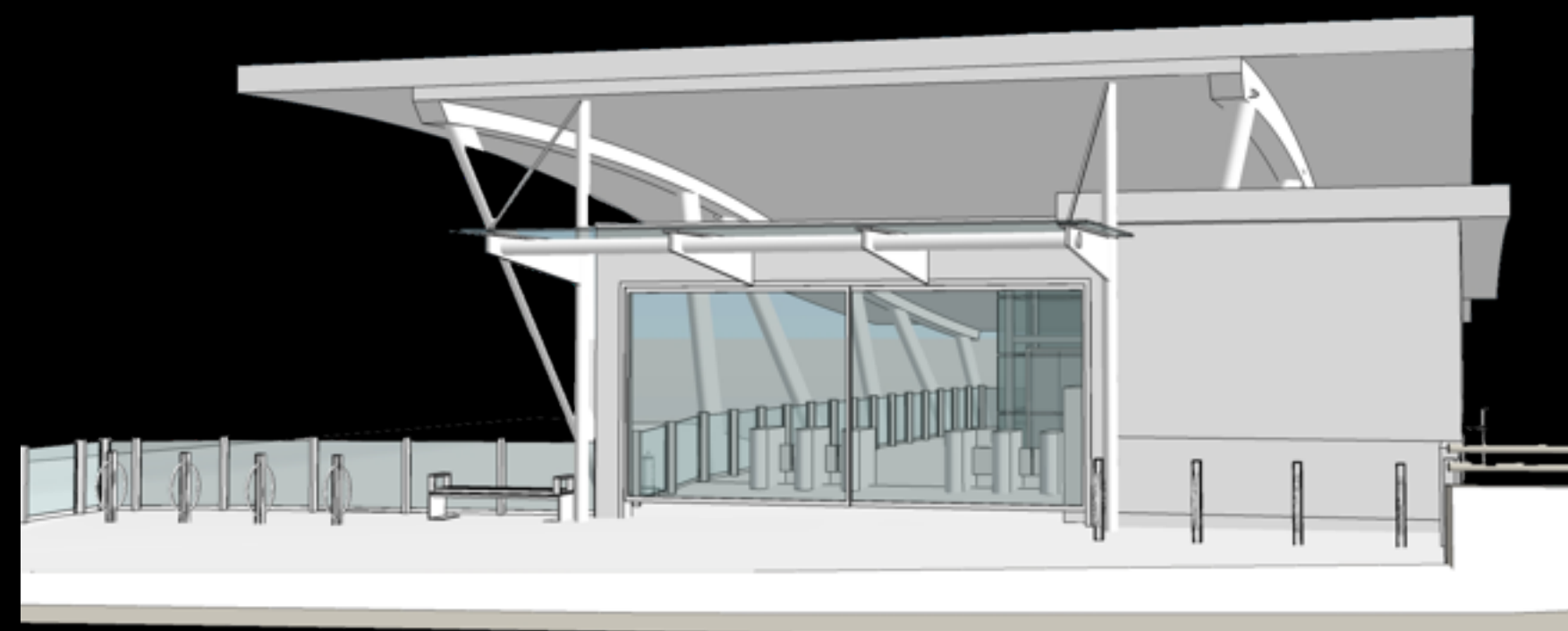
Standardized

Modular

Industry Compatible Construction Details

Exploits local resources and skills

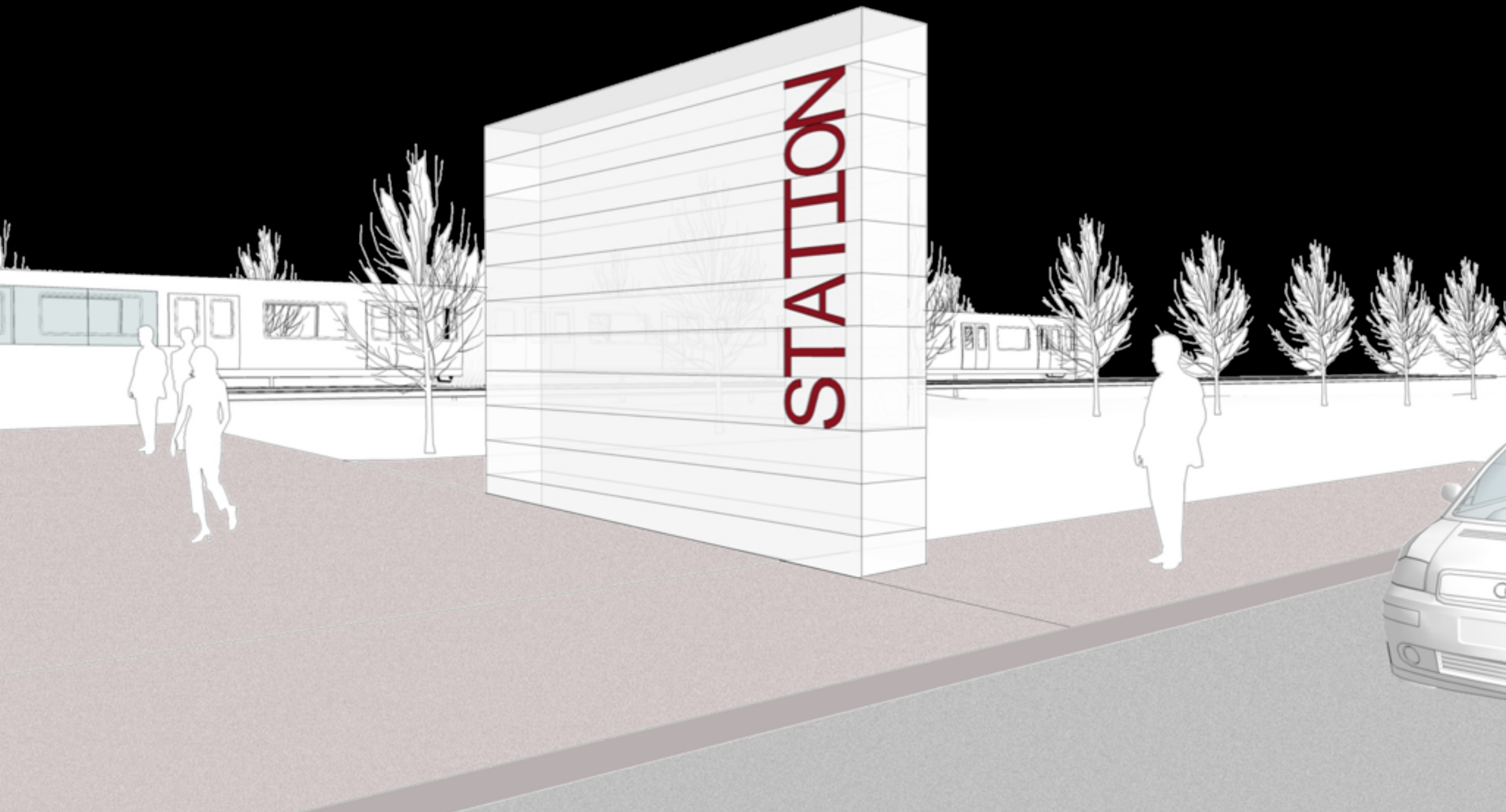
Optimized for Fabrication and timely delivery



Systemized Design Flexibility / Adaptability Modularity / Standardization /

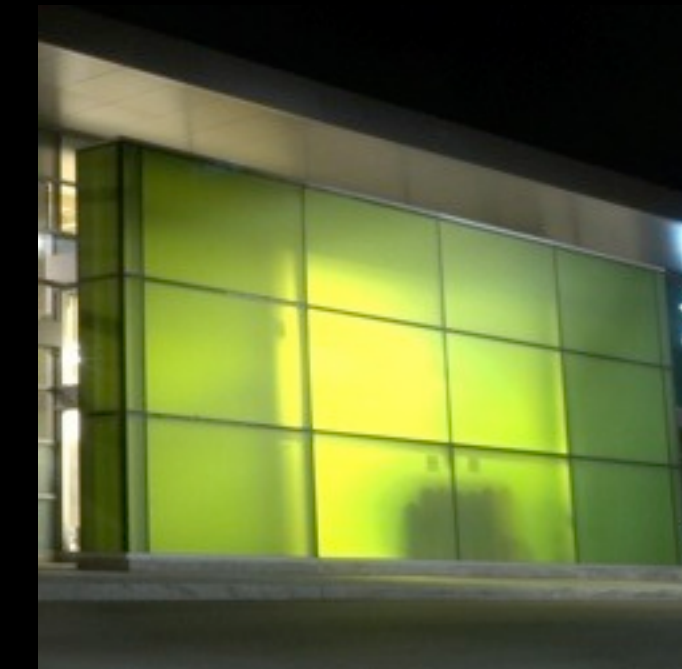
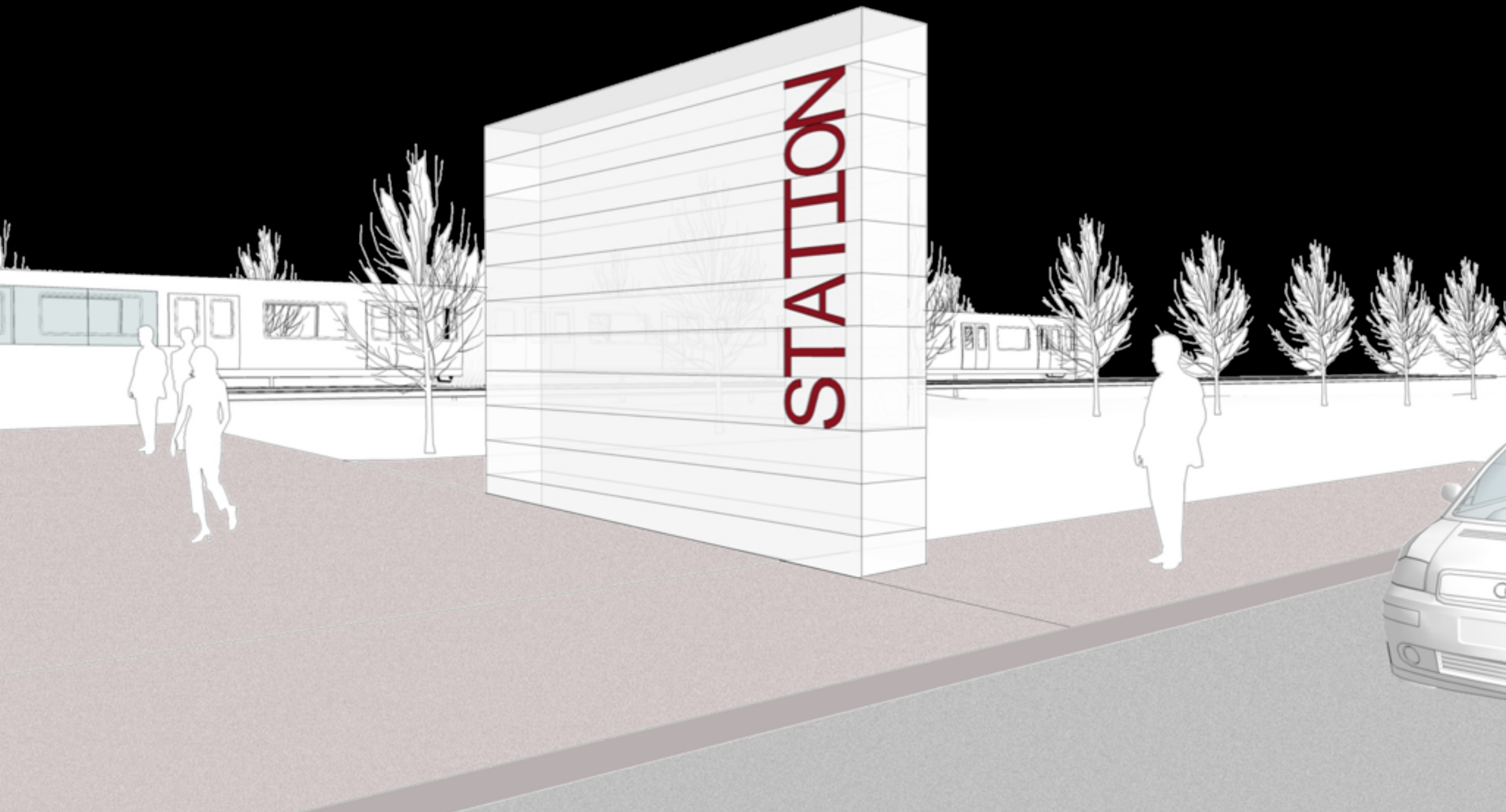
Systemized Design

/ Brand / *One Common Denominator*
Station Identity / Transit Lanterns / Orientation wayfinding & safety



Systemized / Brand / One Common Denominator

Design Station Identity / Transit Lanterns / Orientation wayfinding & safety



Systemized Design

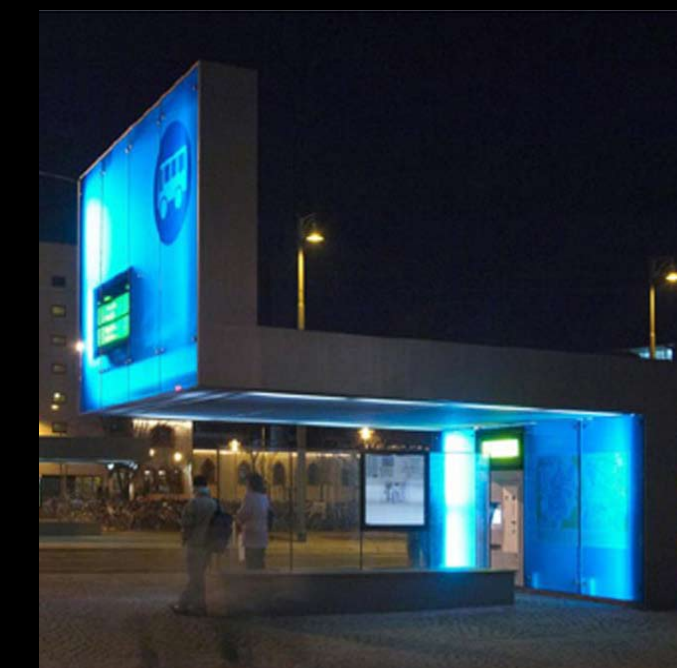
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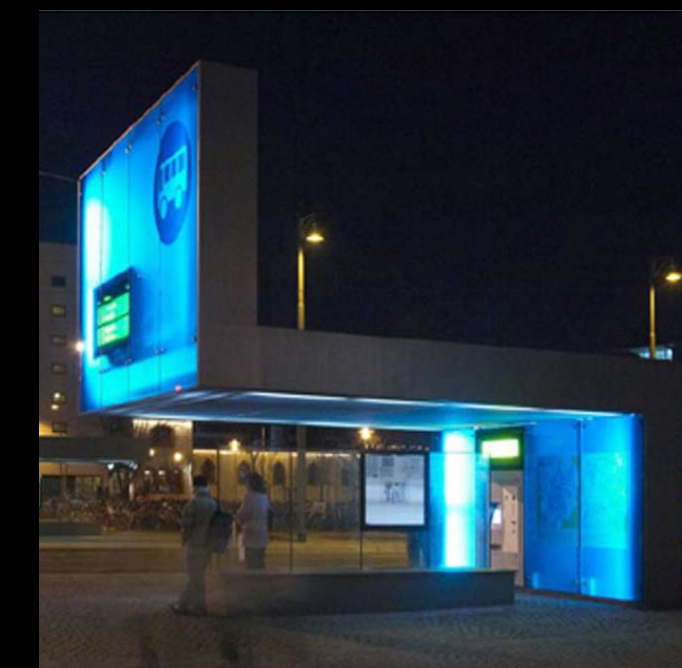
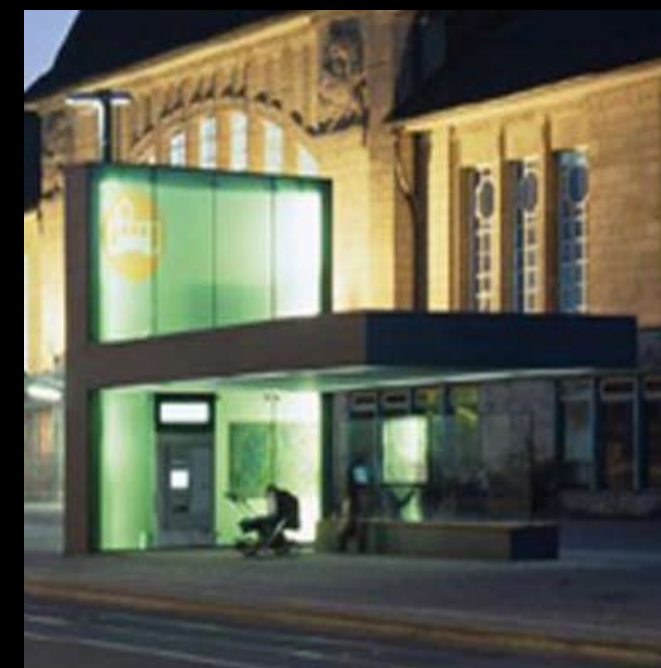
Continuity of Passenger Experience / Staff Management



Station Identity / Wayfinding and Convenience

Systemized Design

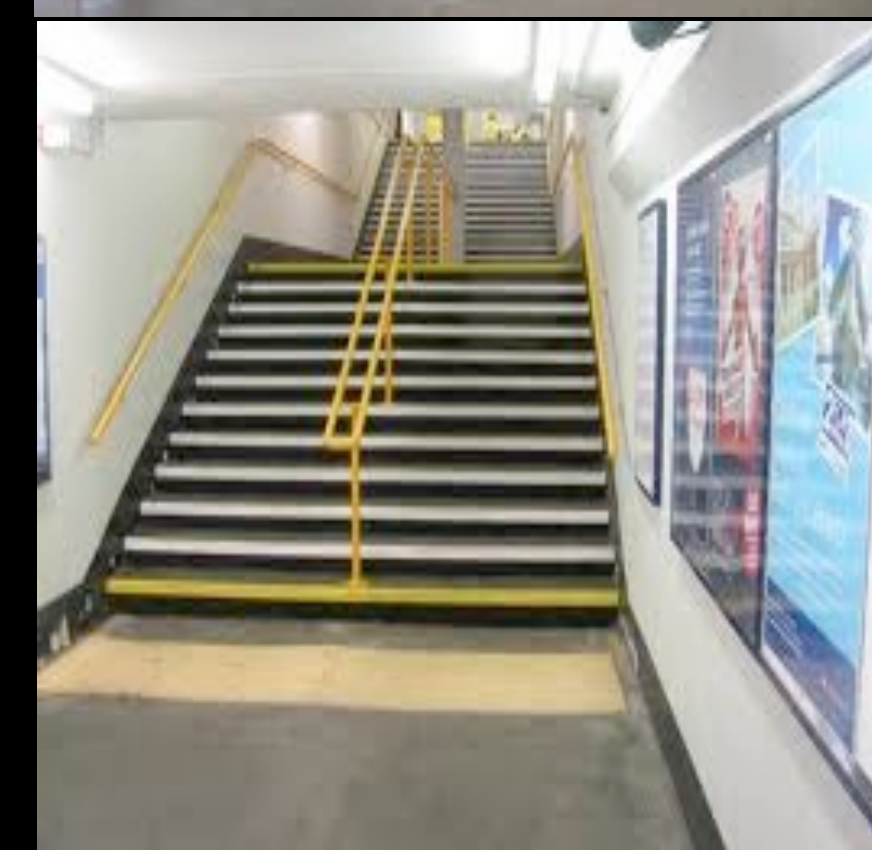
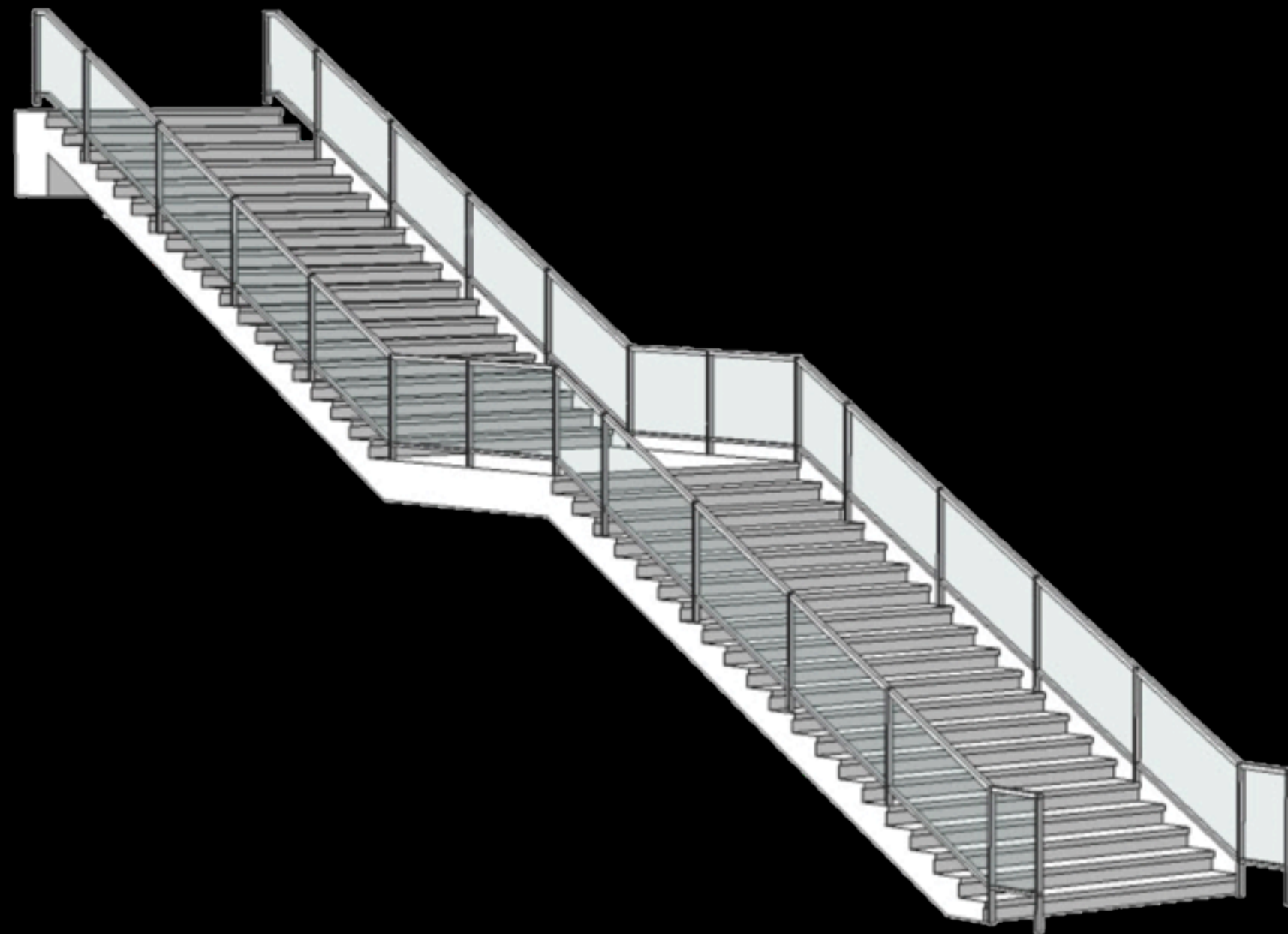
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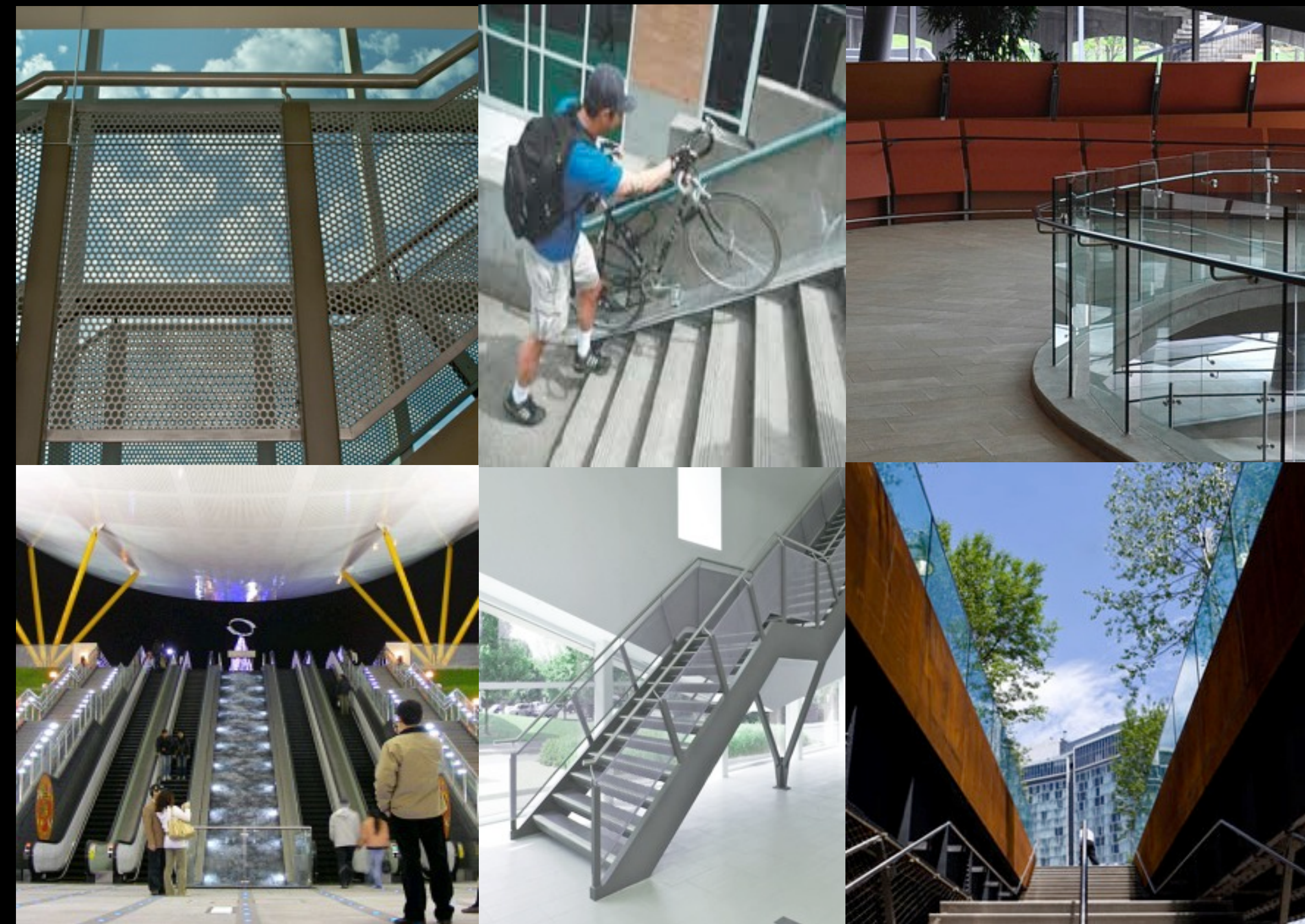
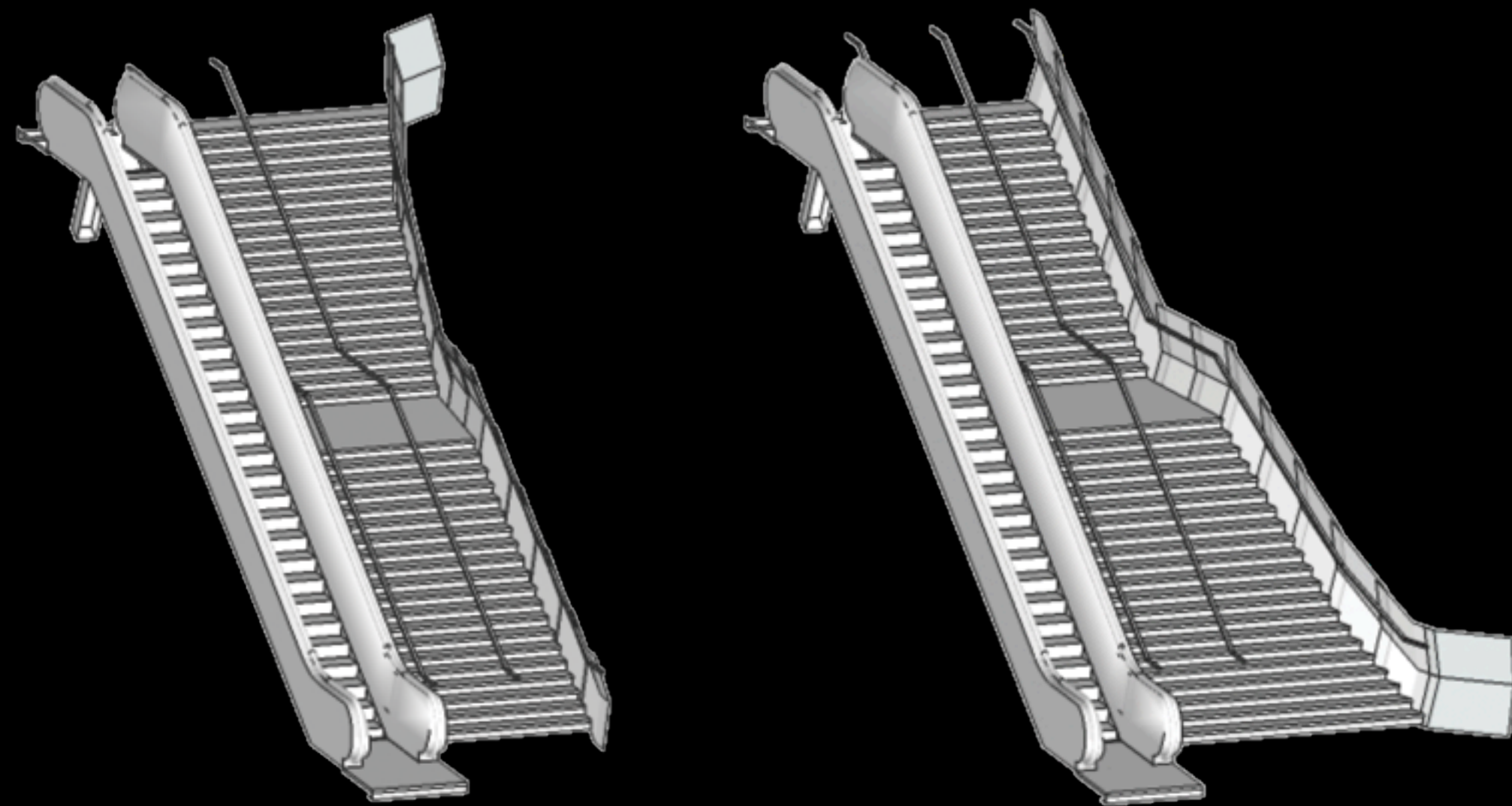
Systemized Design

Multi-tasking elements / Stairs



Staircase Standardization & Multitasking extending utility

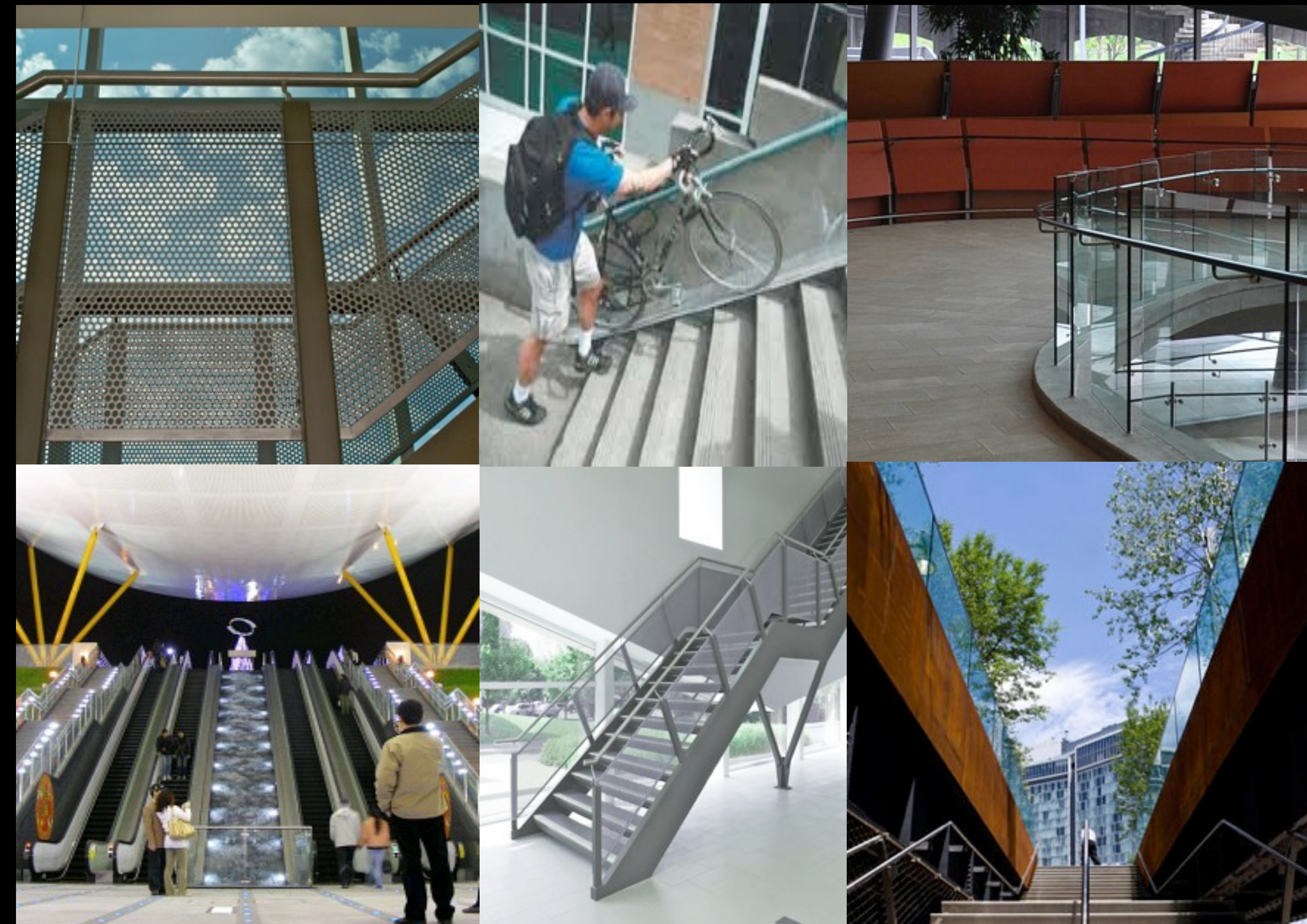
Systemized Design *Multi-tasking elements / Stairs*



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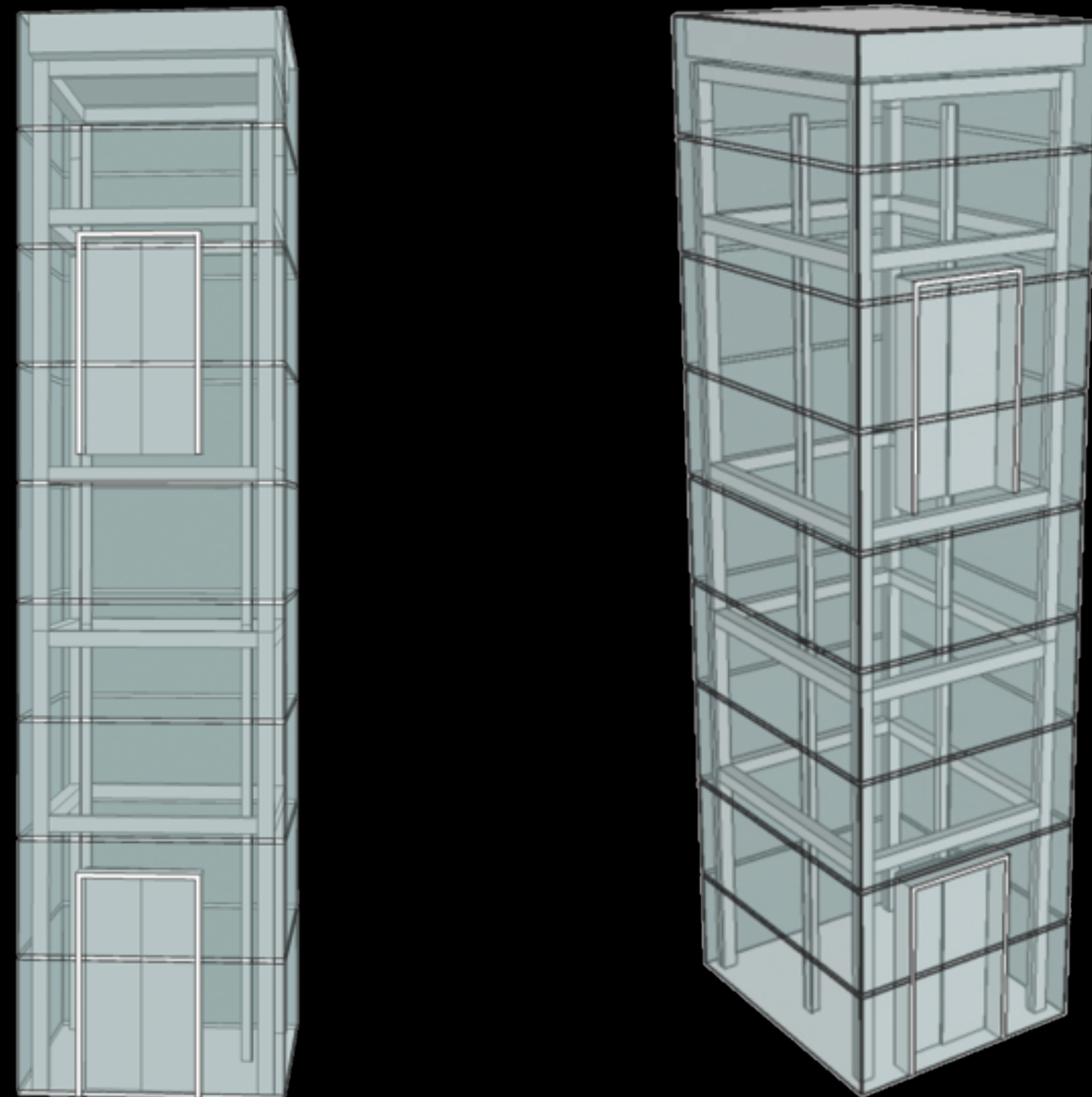
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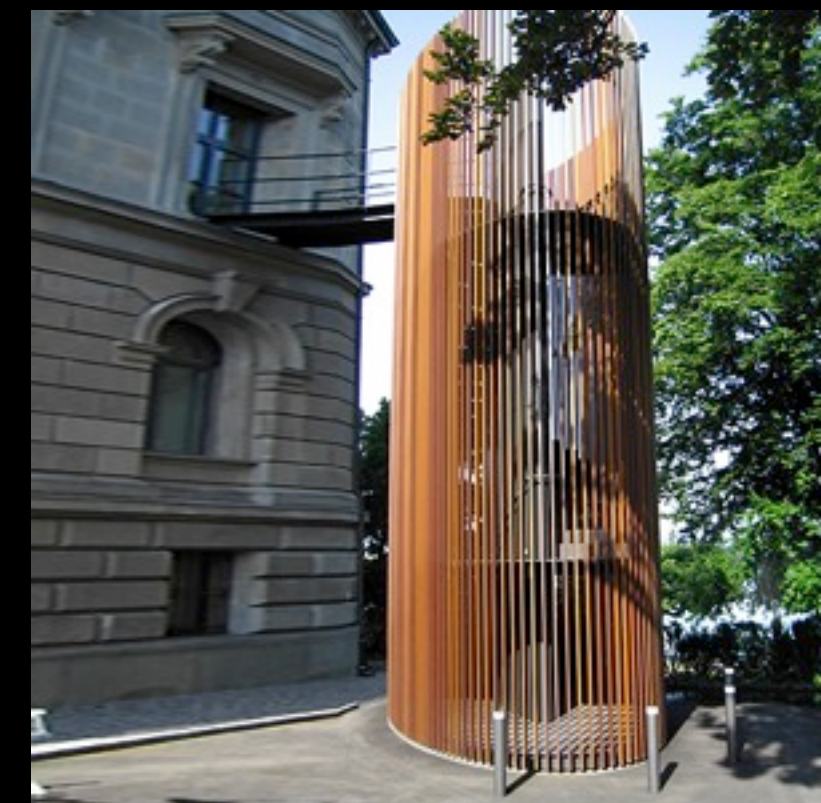
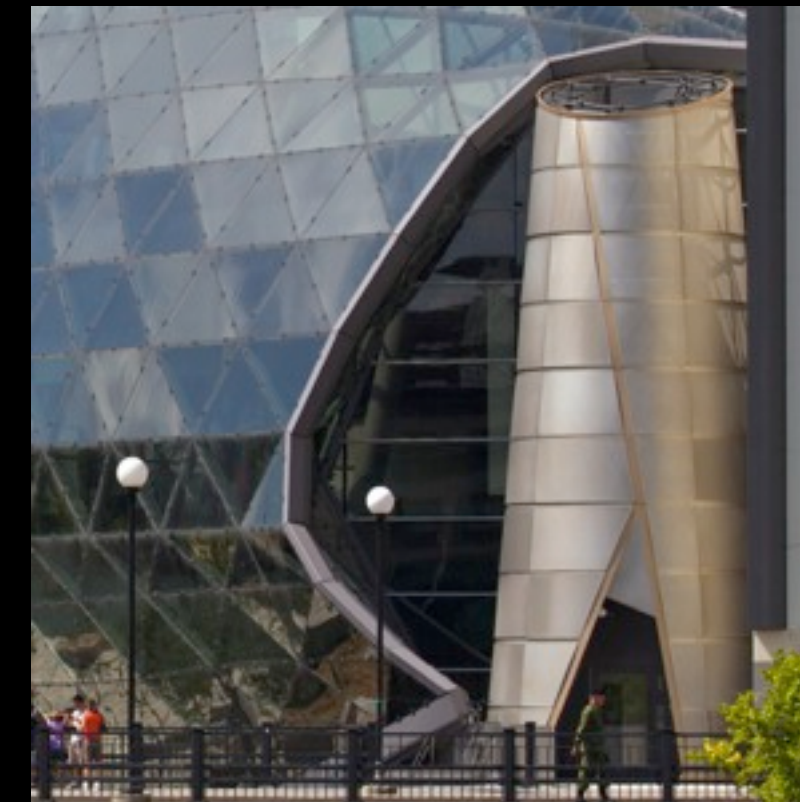
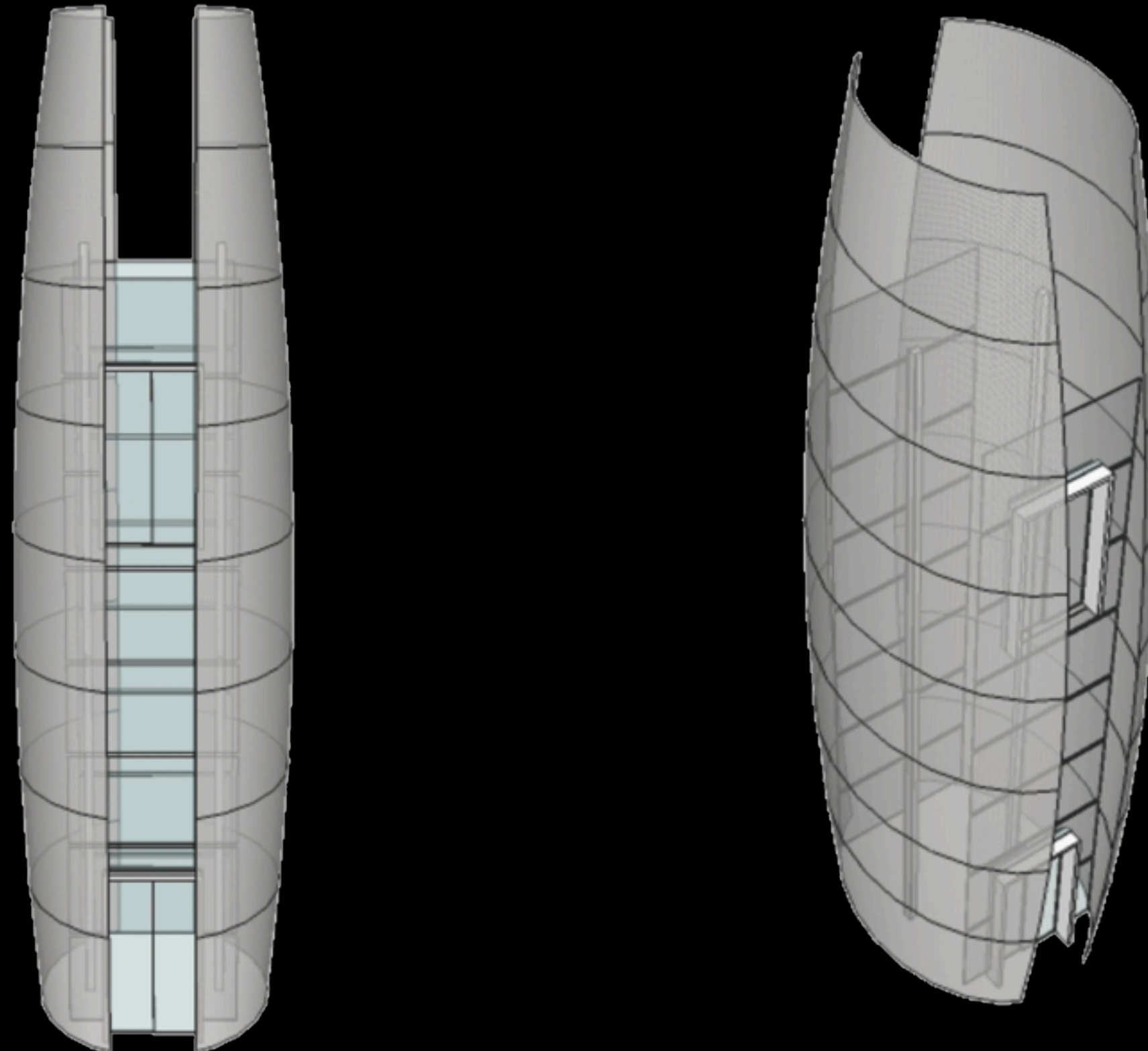
Multi-tasking elements / Elevators as Totems / place makers



Elevators / CPTED / Maintenance & Orientation through legible place markers

Systemized Design

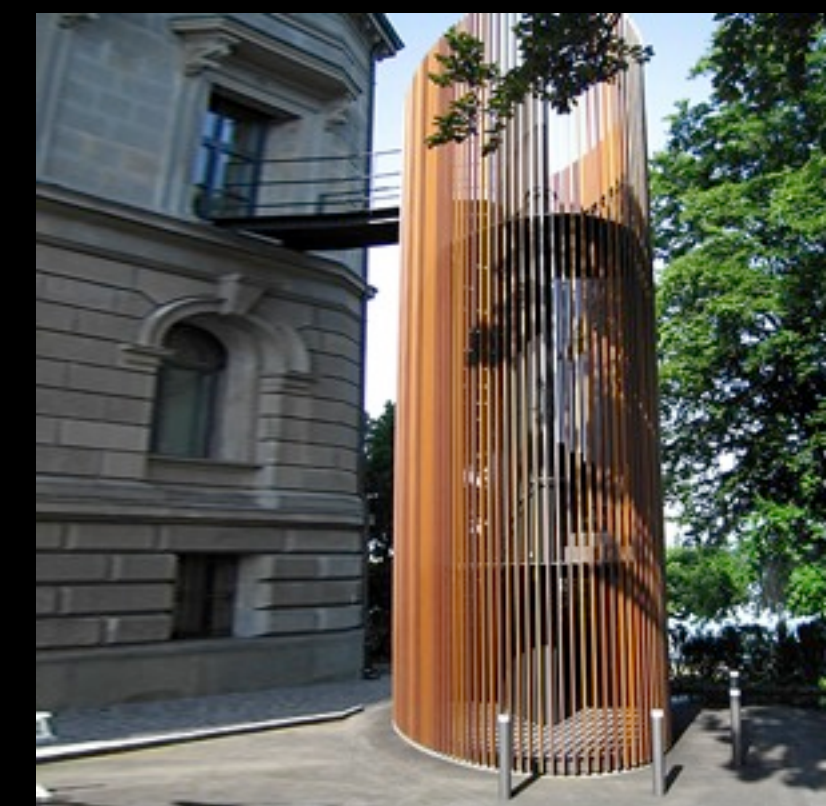
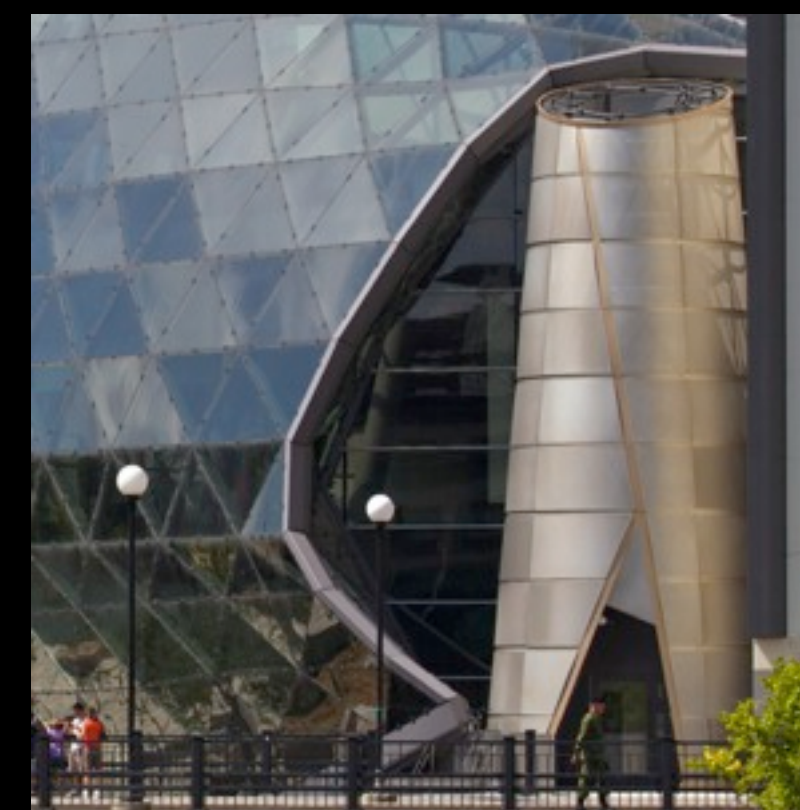
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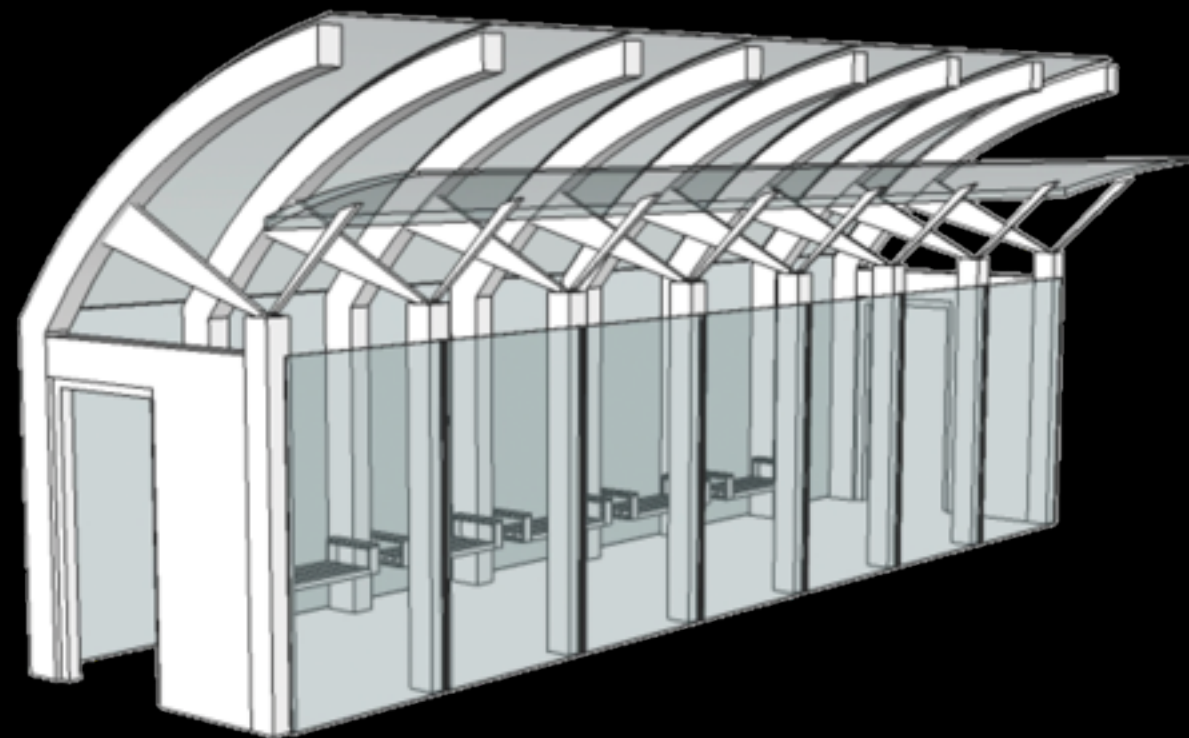
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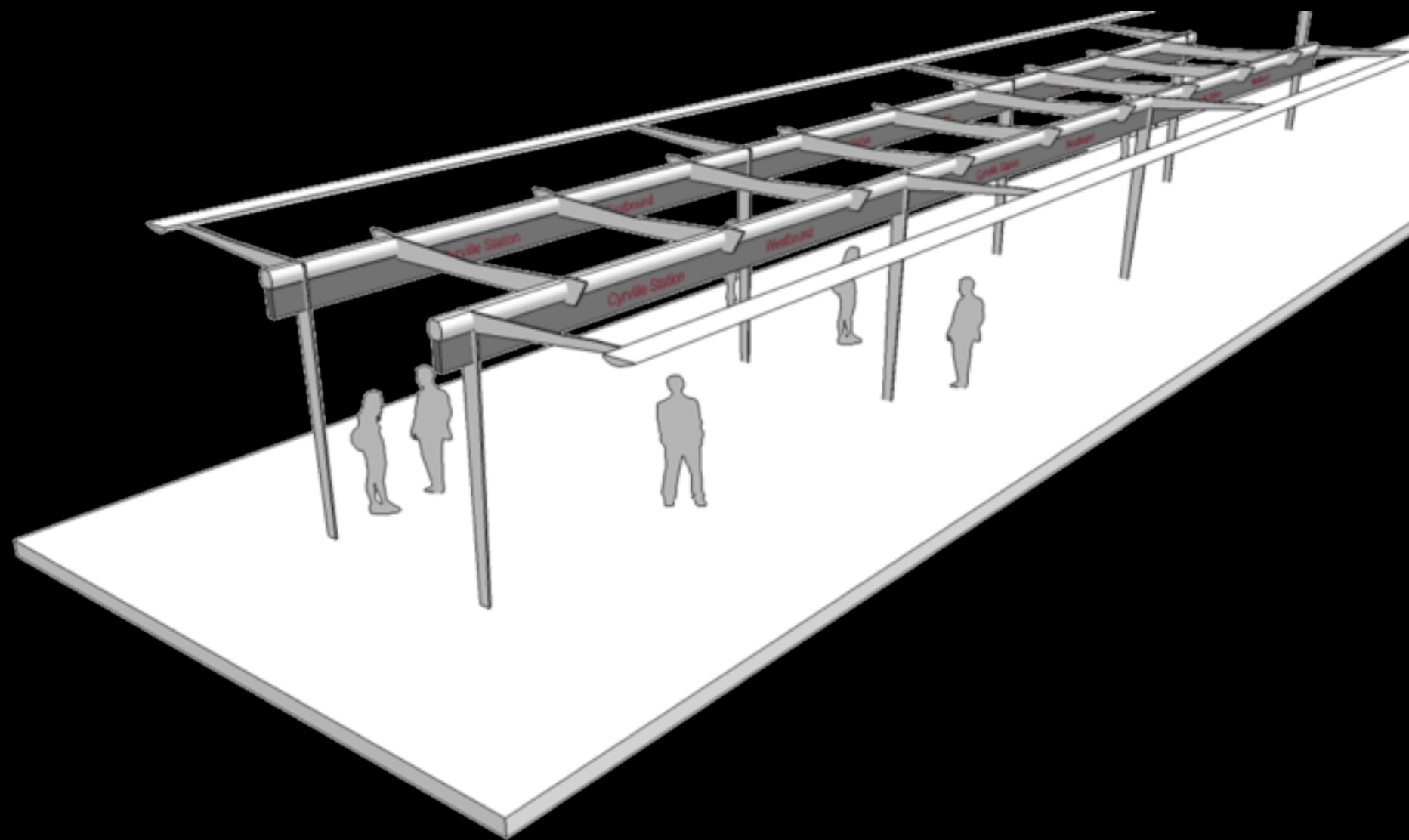
Integrated Elements / Shelters which expand public space not isolate it.



Shelters / integrated design study / Share the Public Space not isolating it

Systemized Design

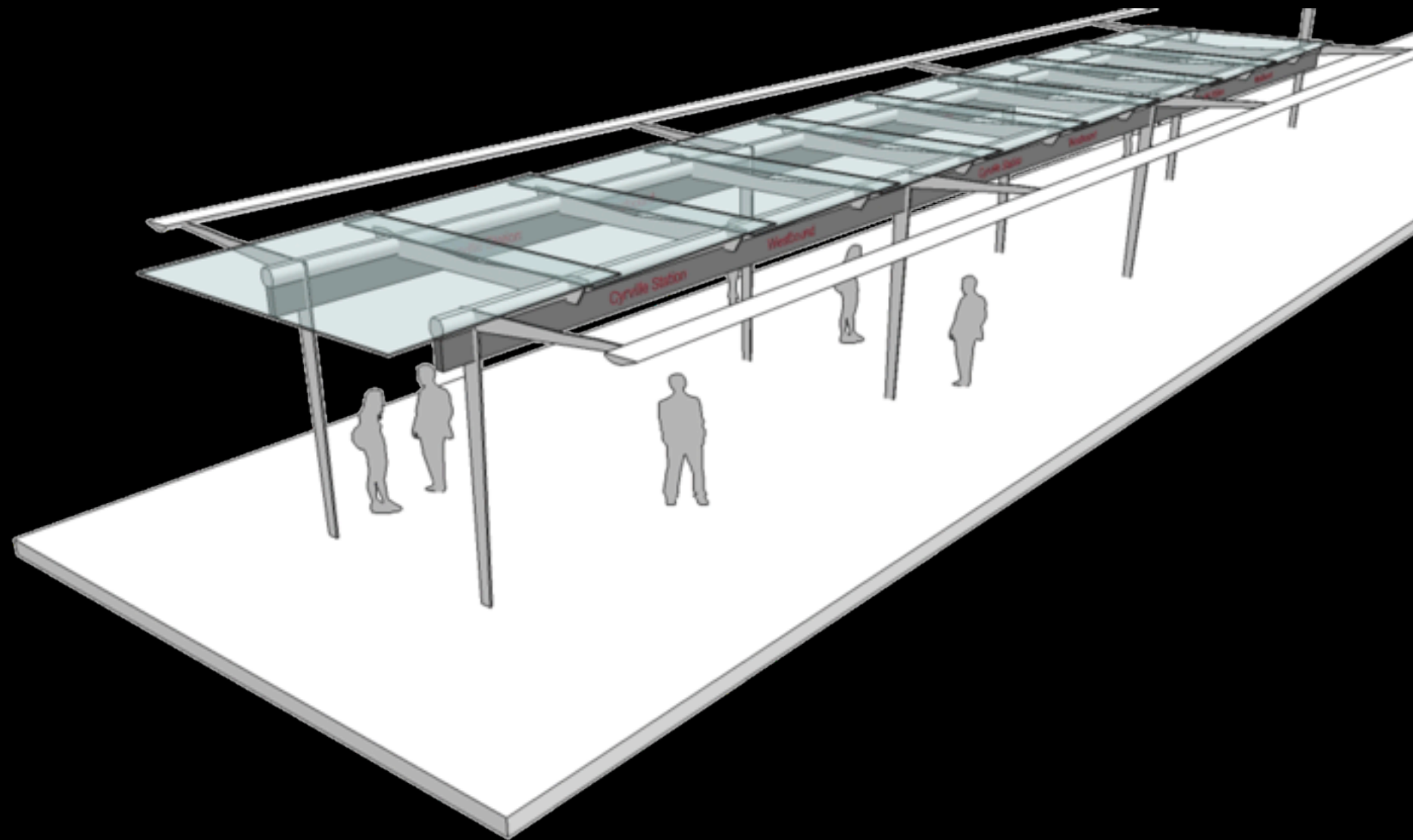
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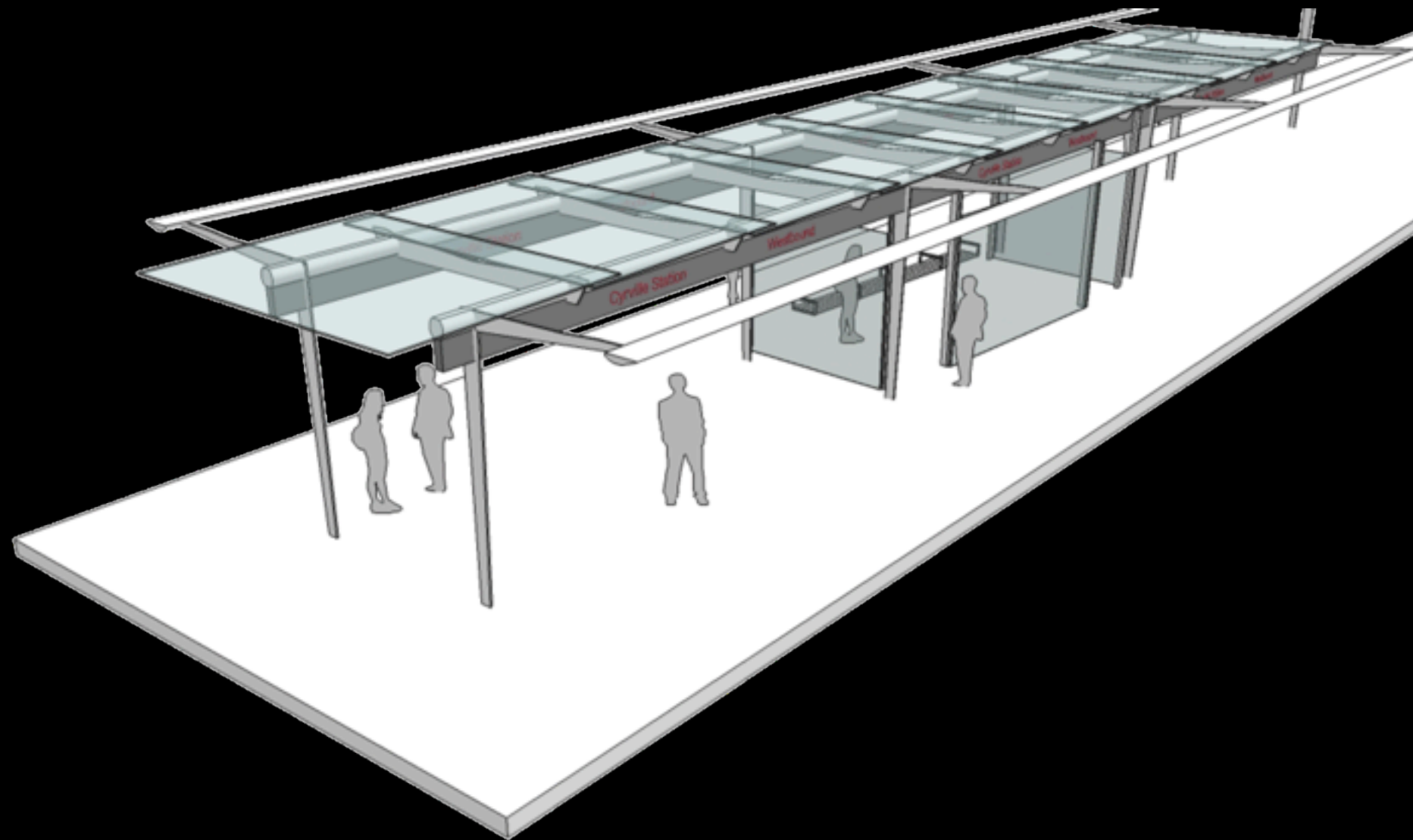
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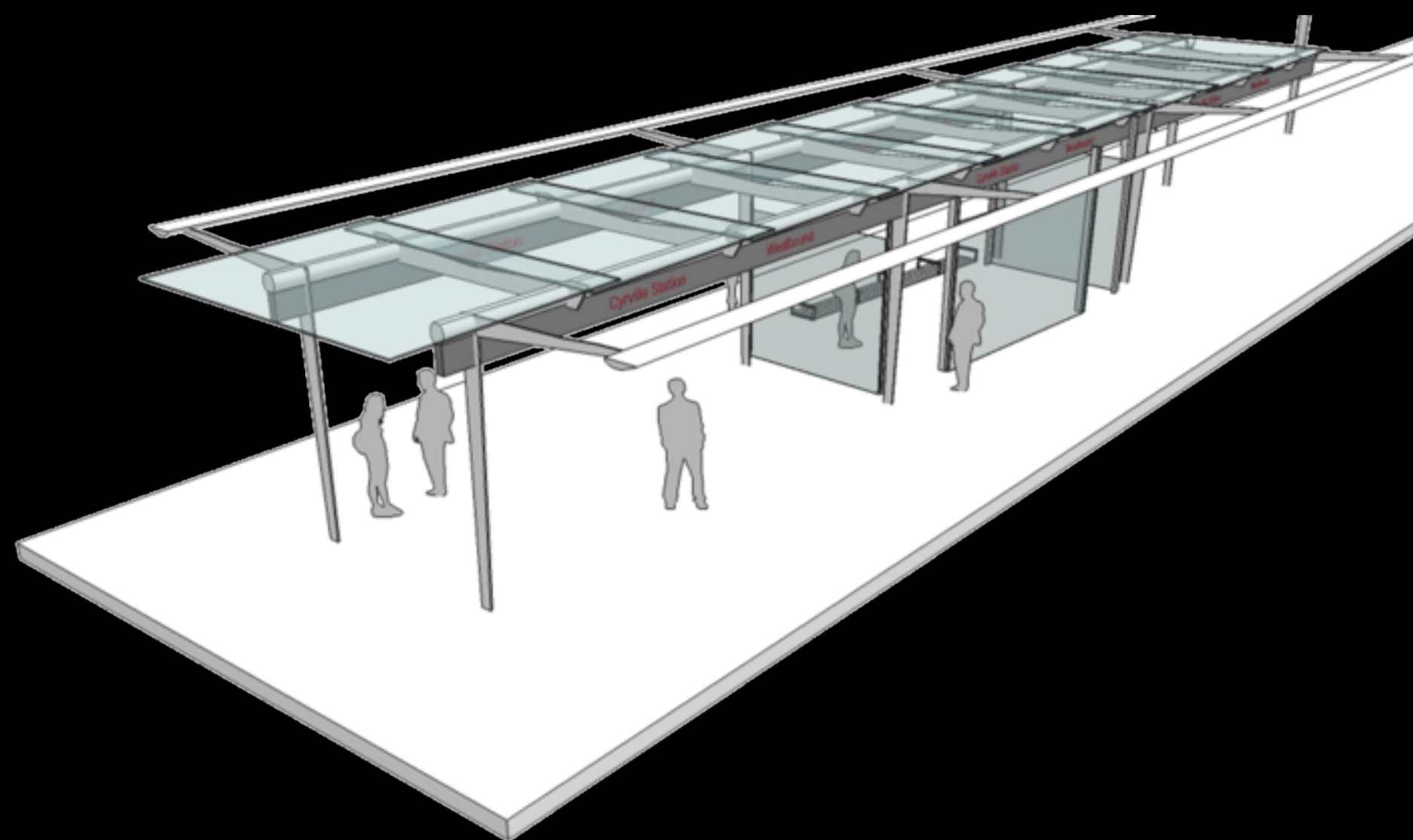
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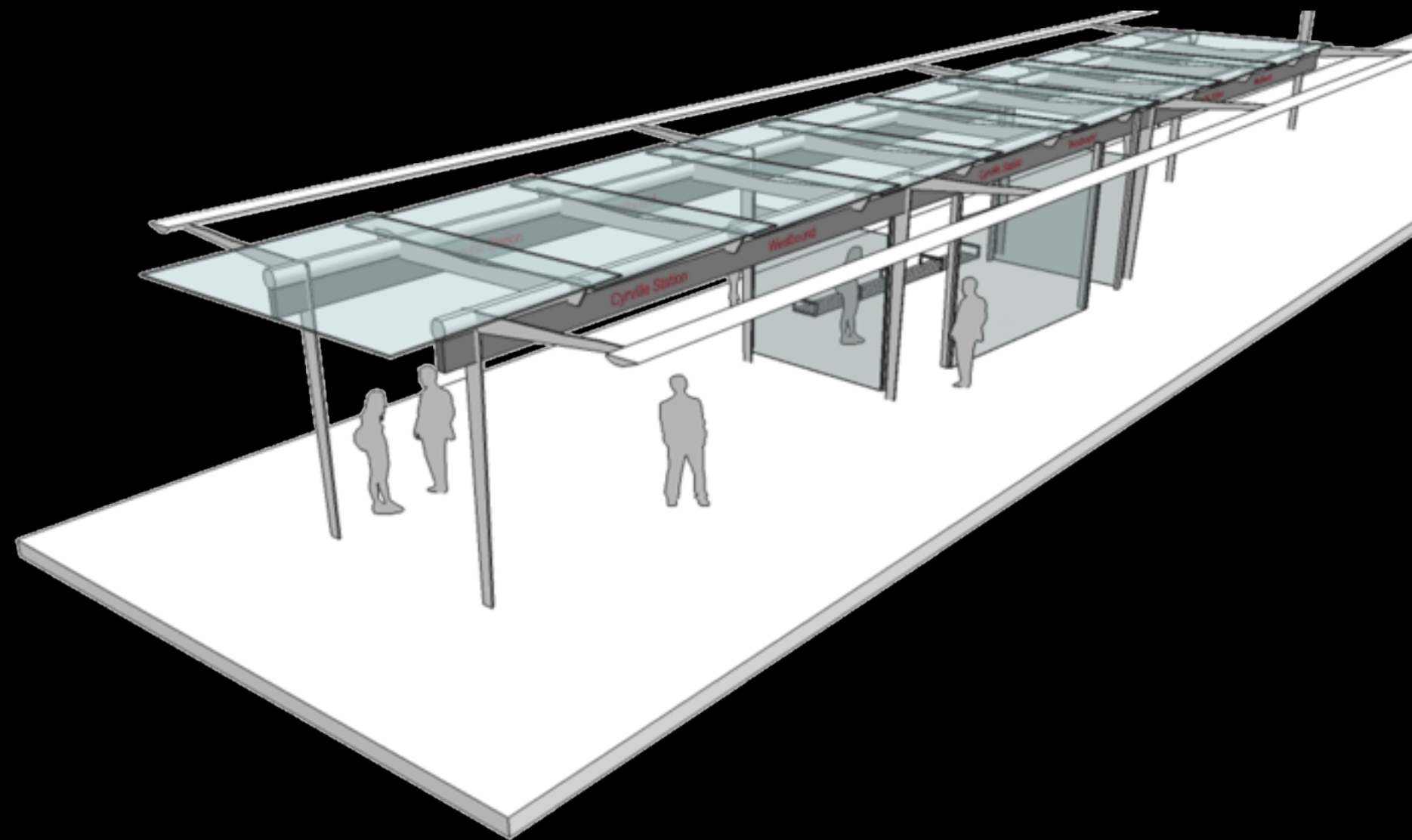
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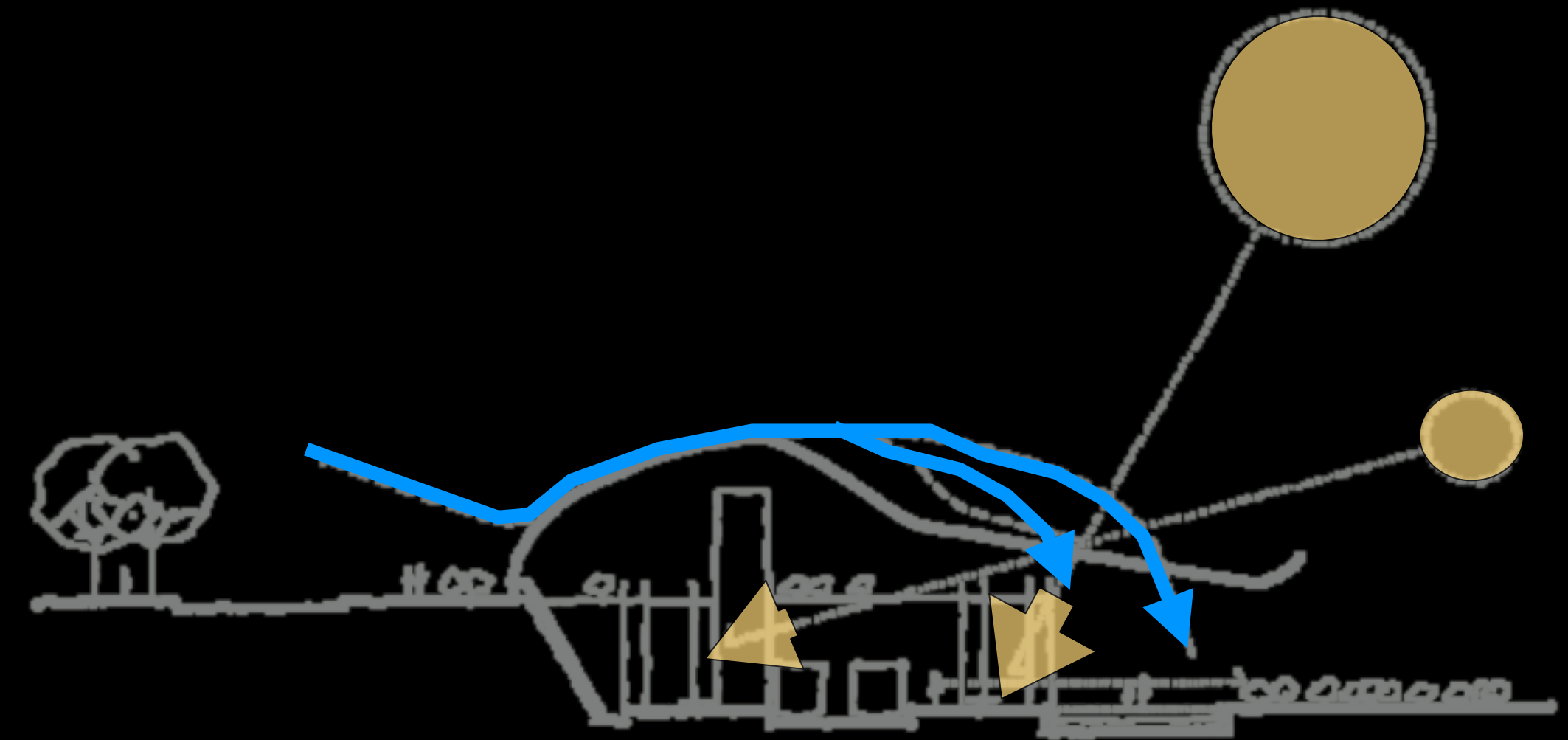
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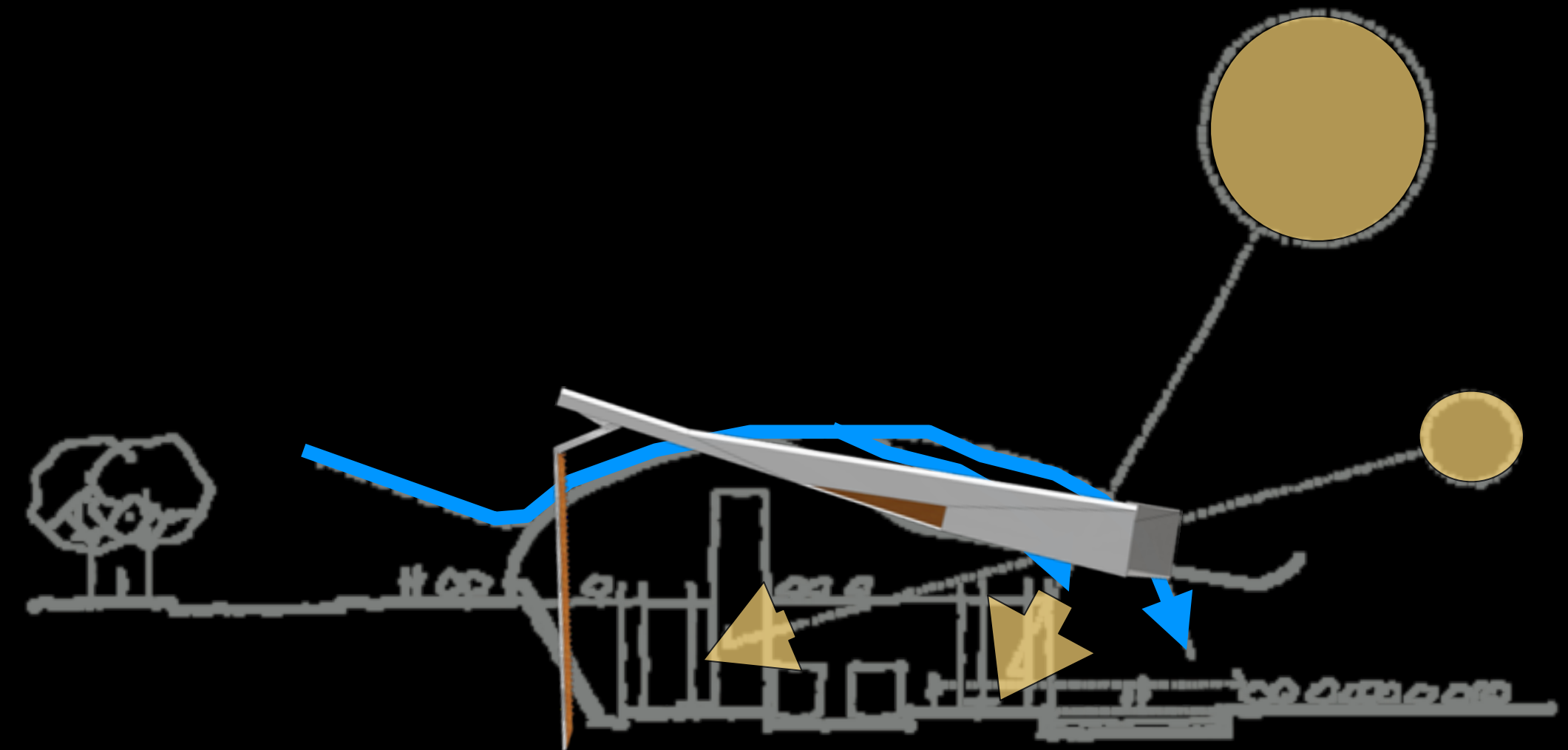
Multi-tasking elements / Roofs as wayfinding elements / micro climate control



Canopy Design / Democratic Modular & Flexible

Systemized Design

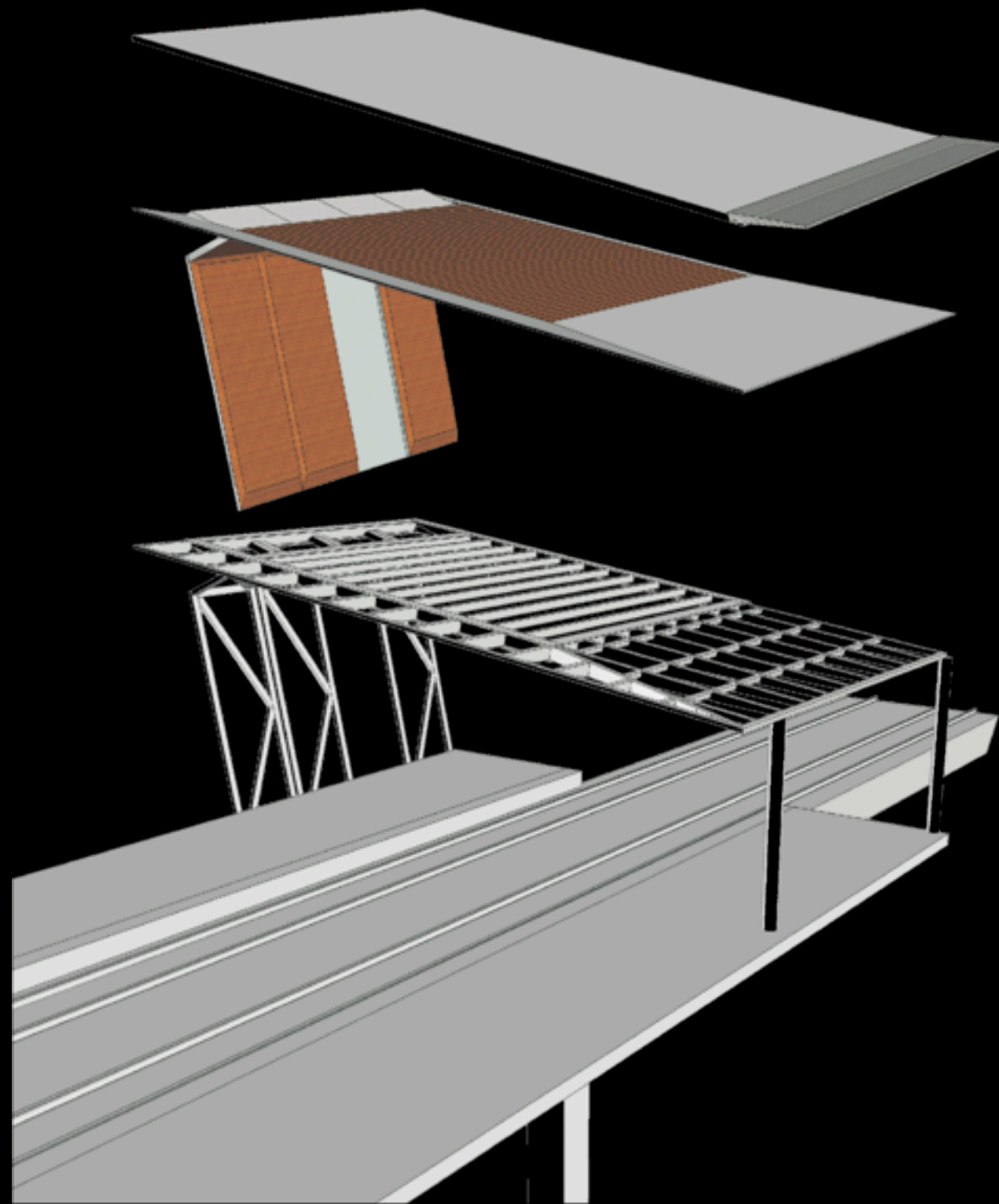
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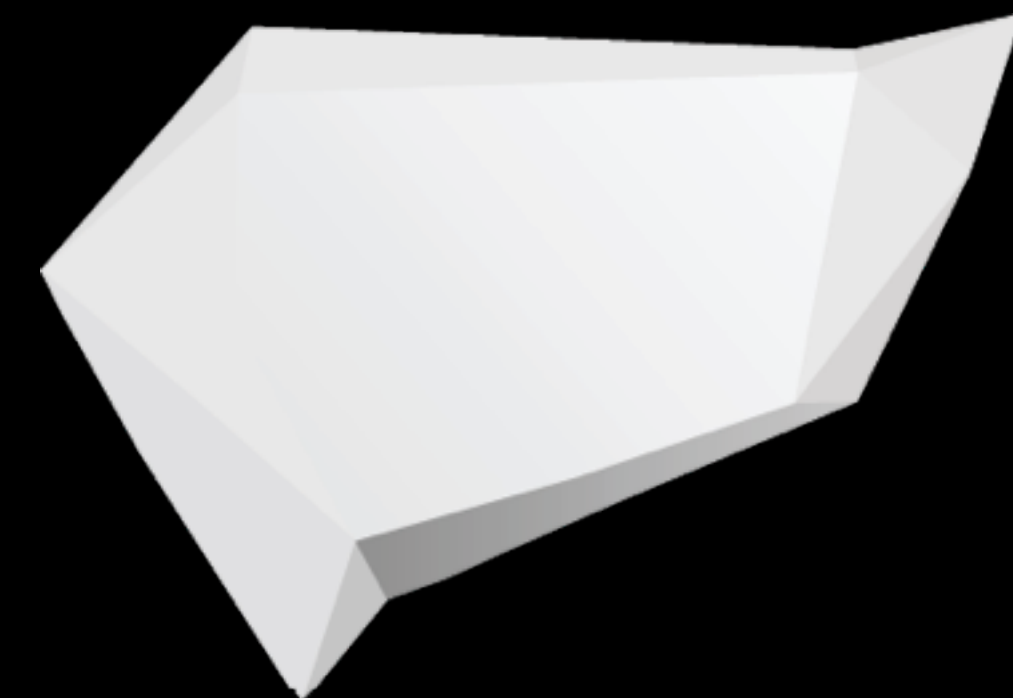
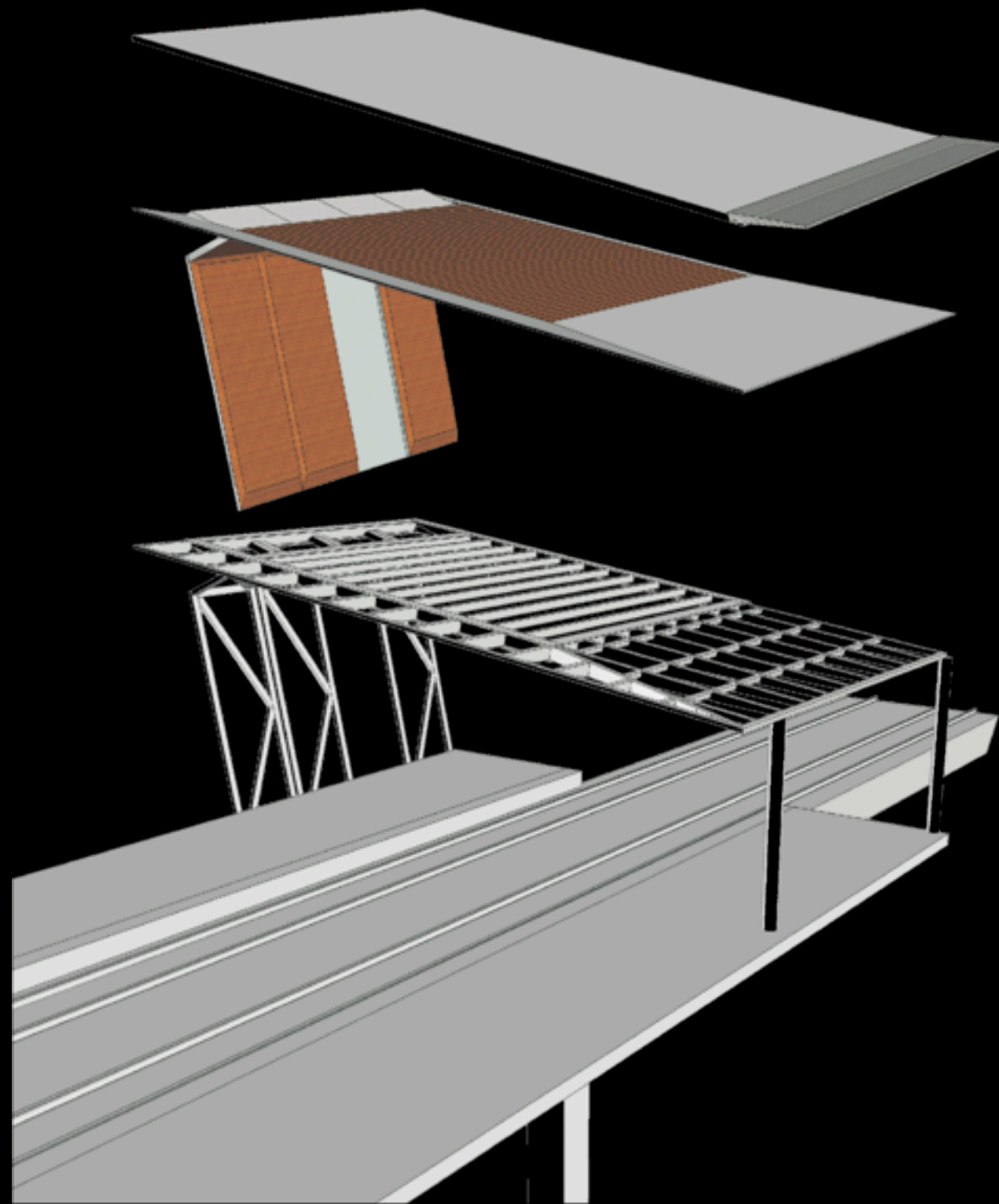
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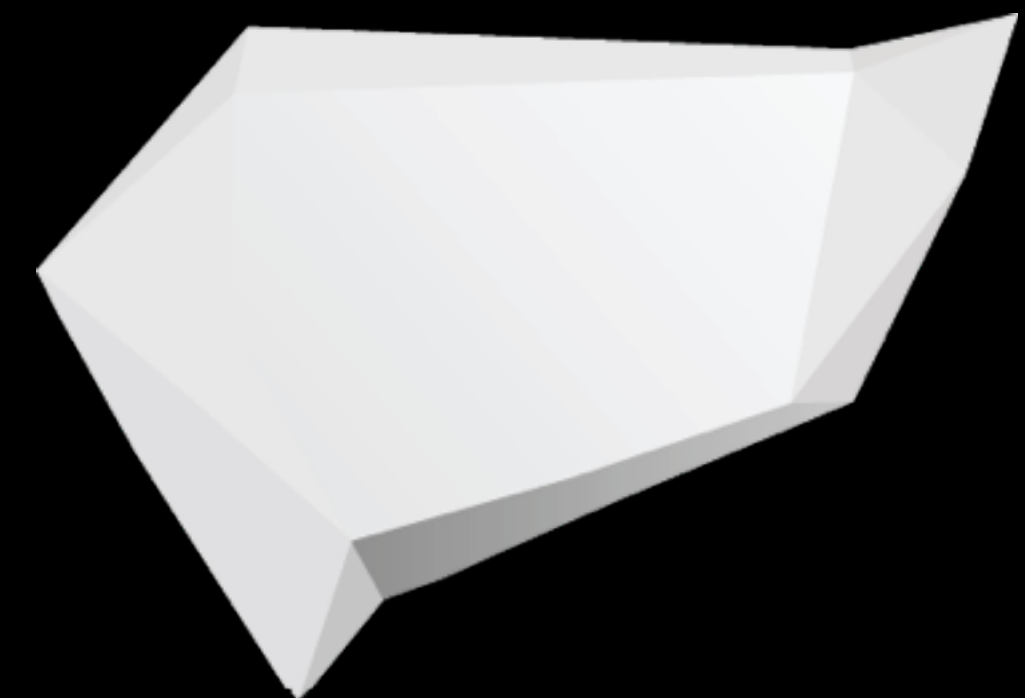
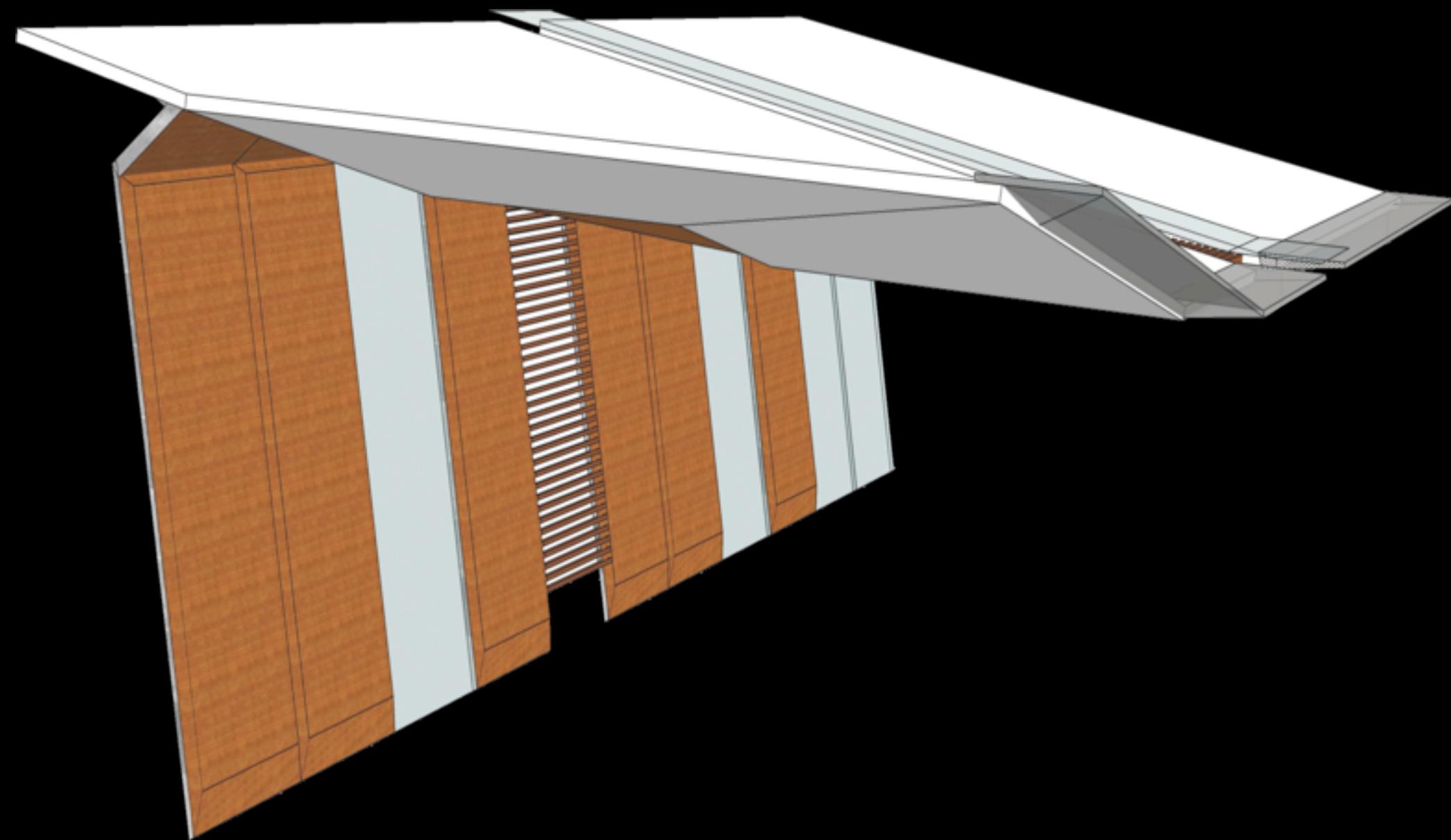
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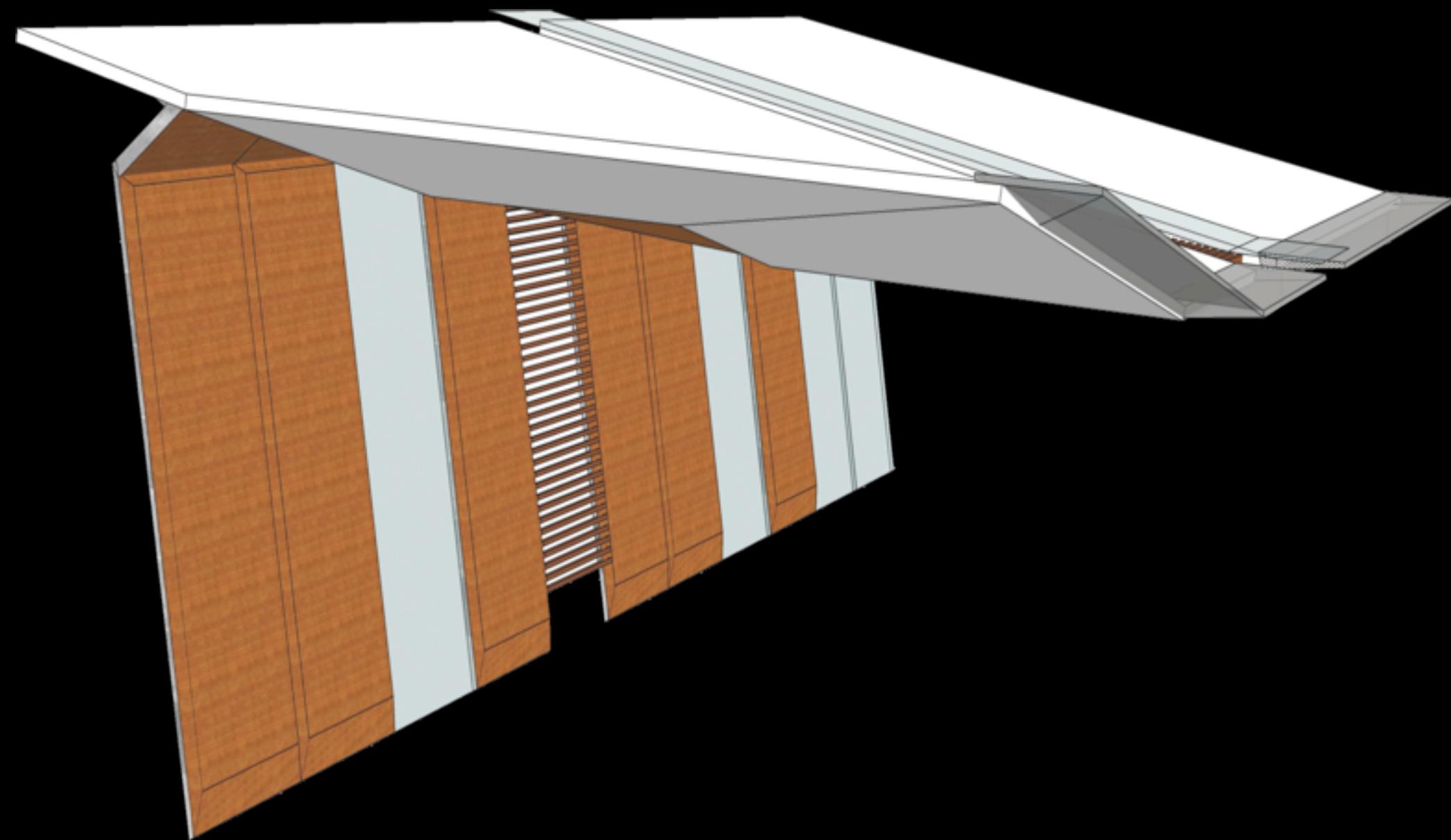
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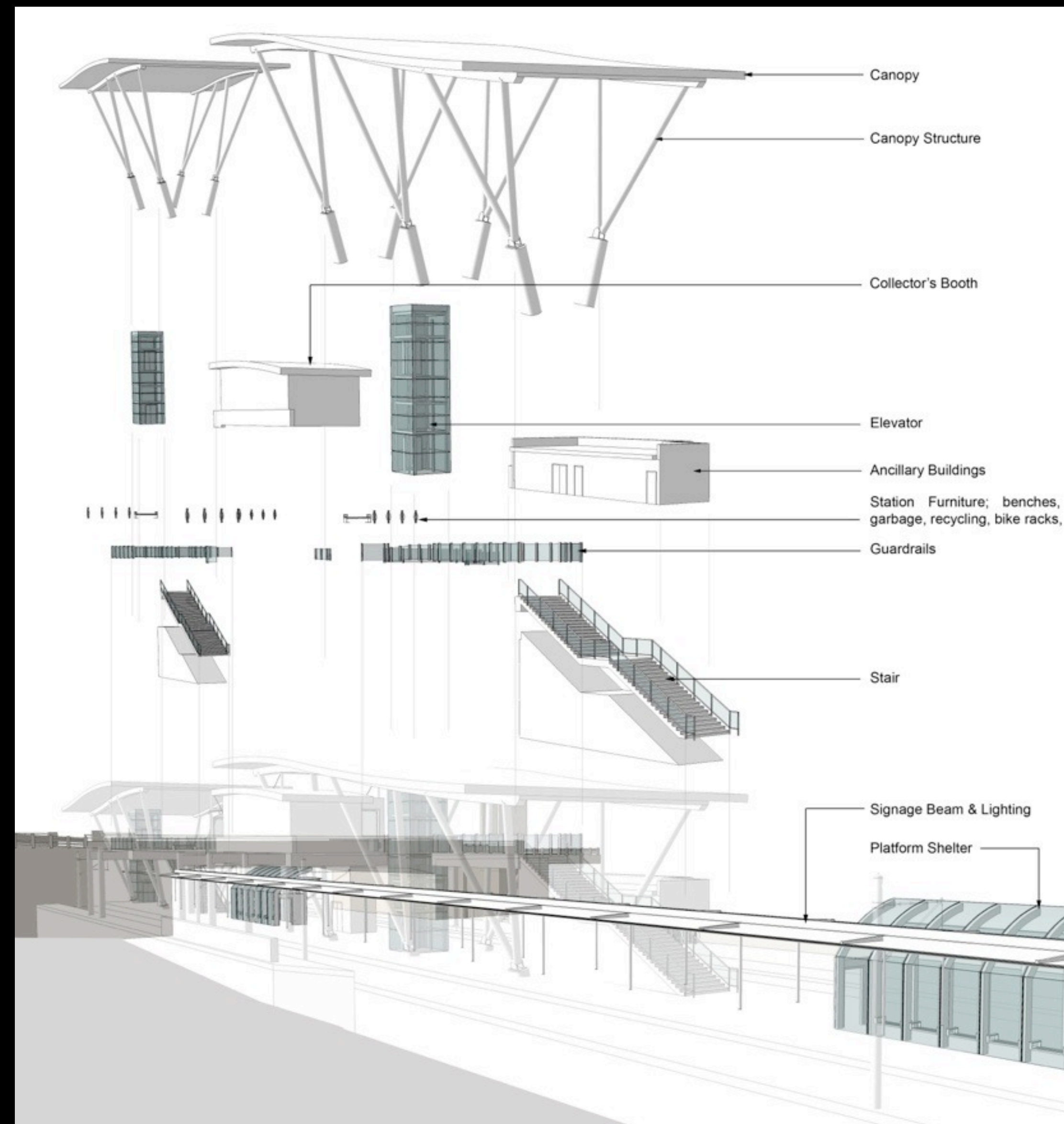
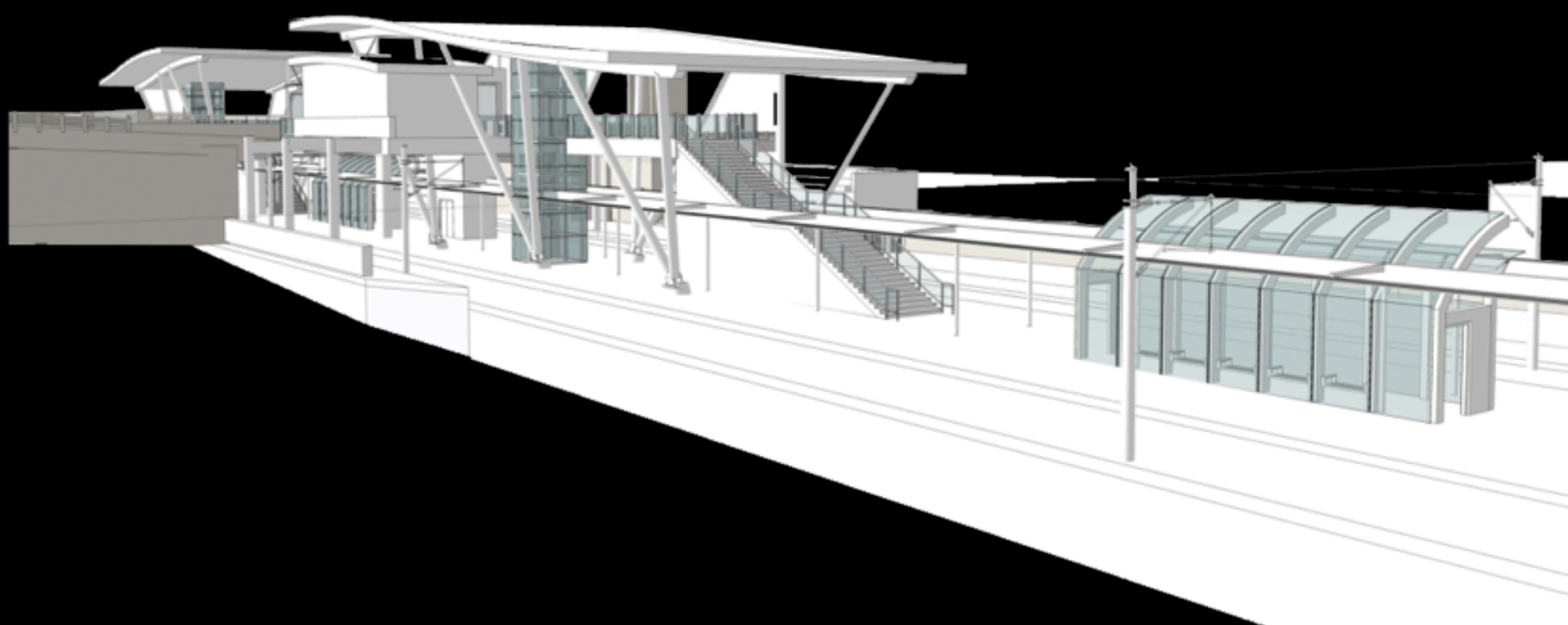
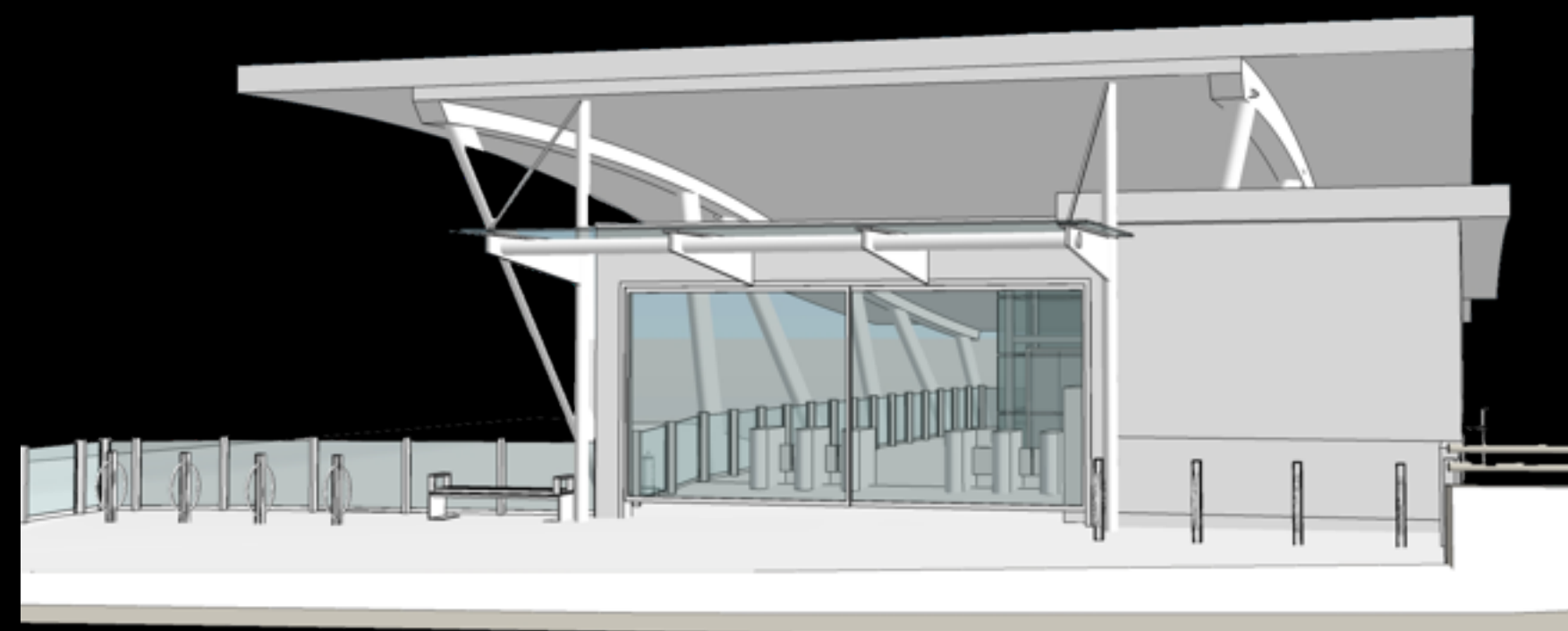
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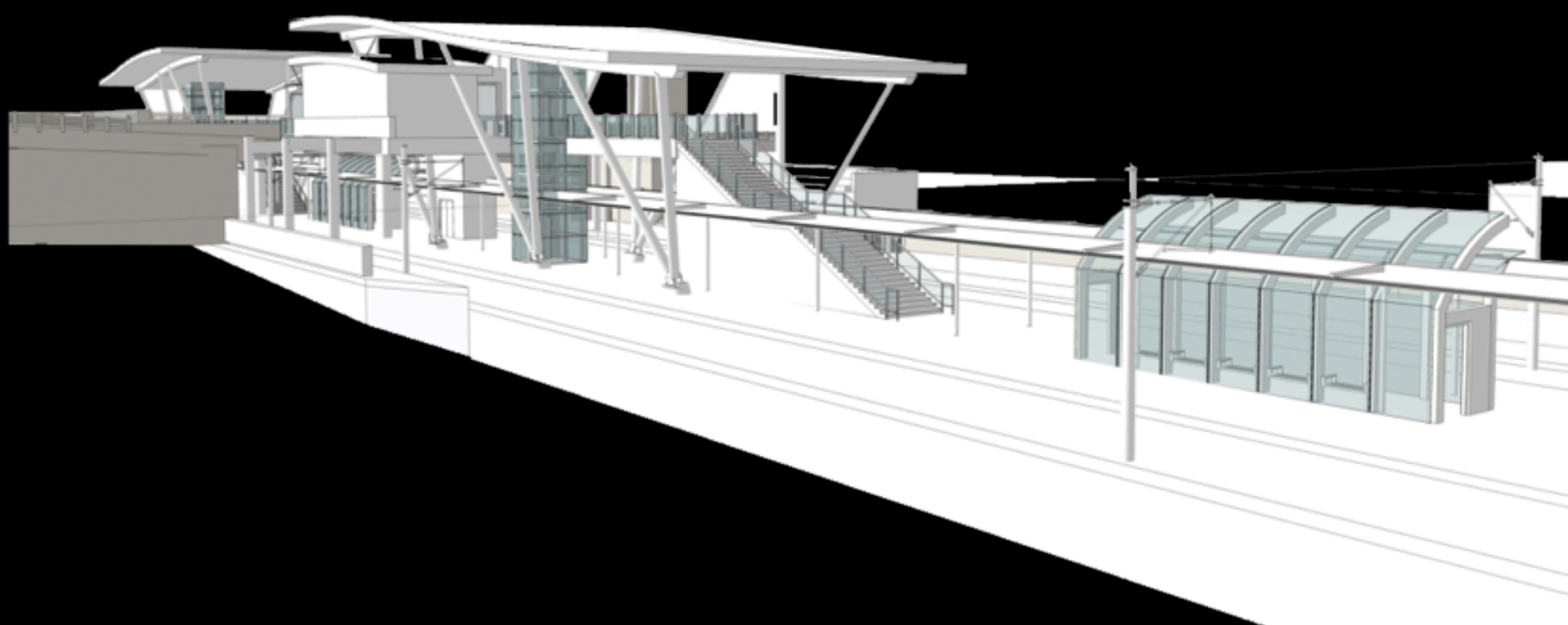
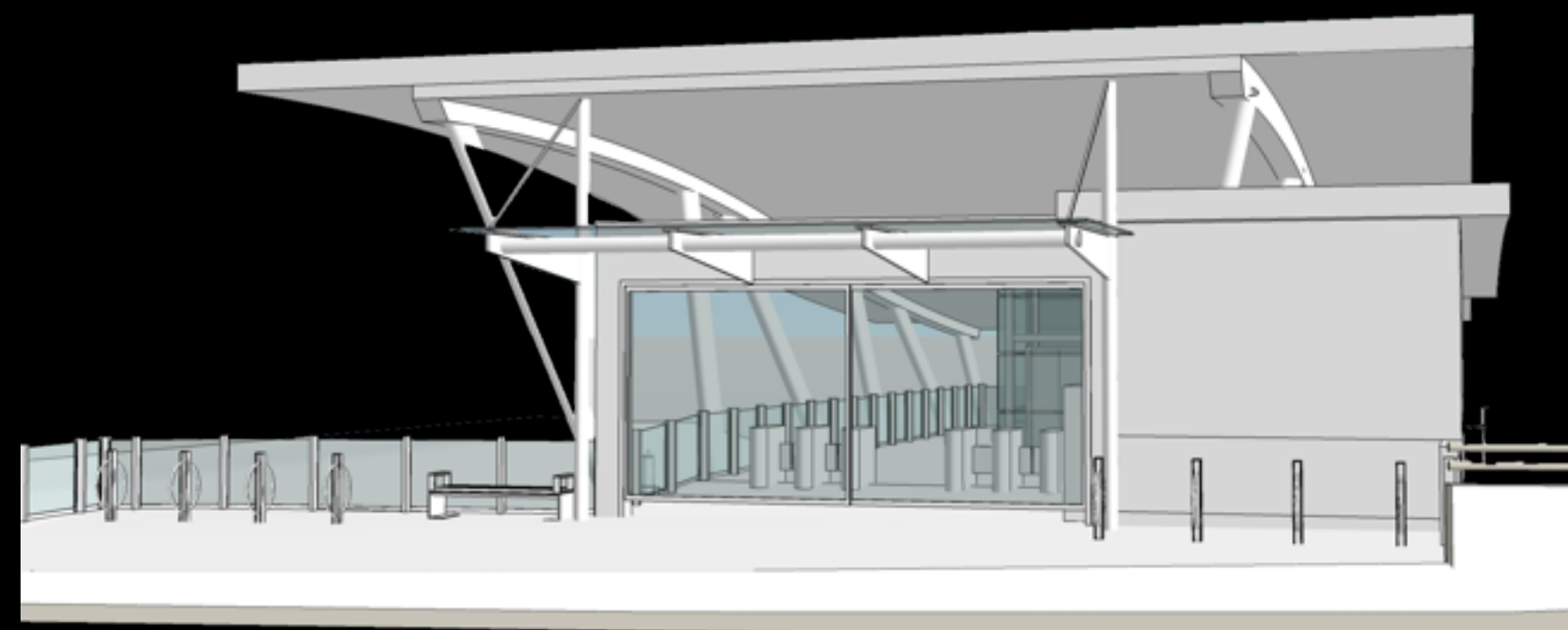
Multi-tasking elements / Roofs as wayfinding elements / micro climate control



Canopy Design / Democratic Modular & Flexible

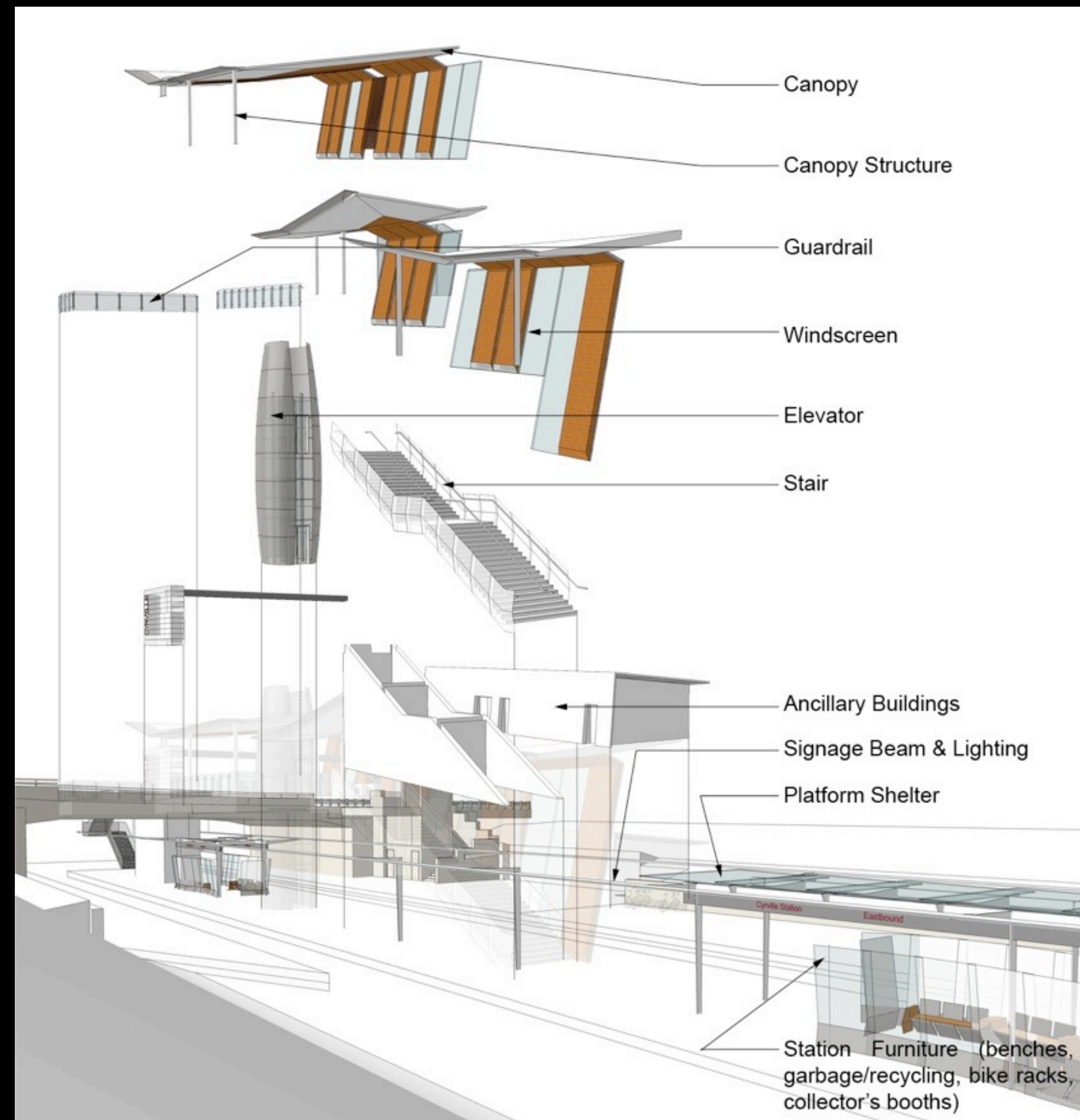


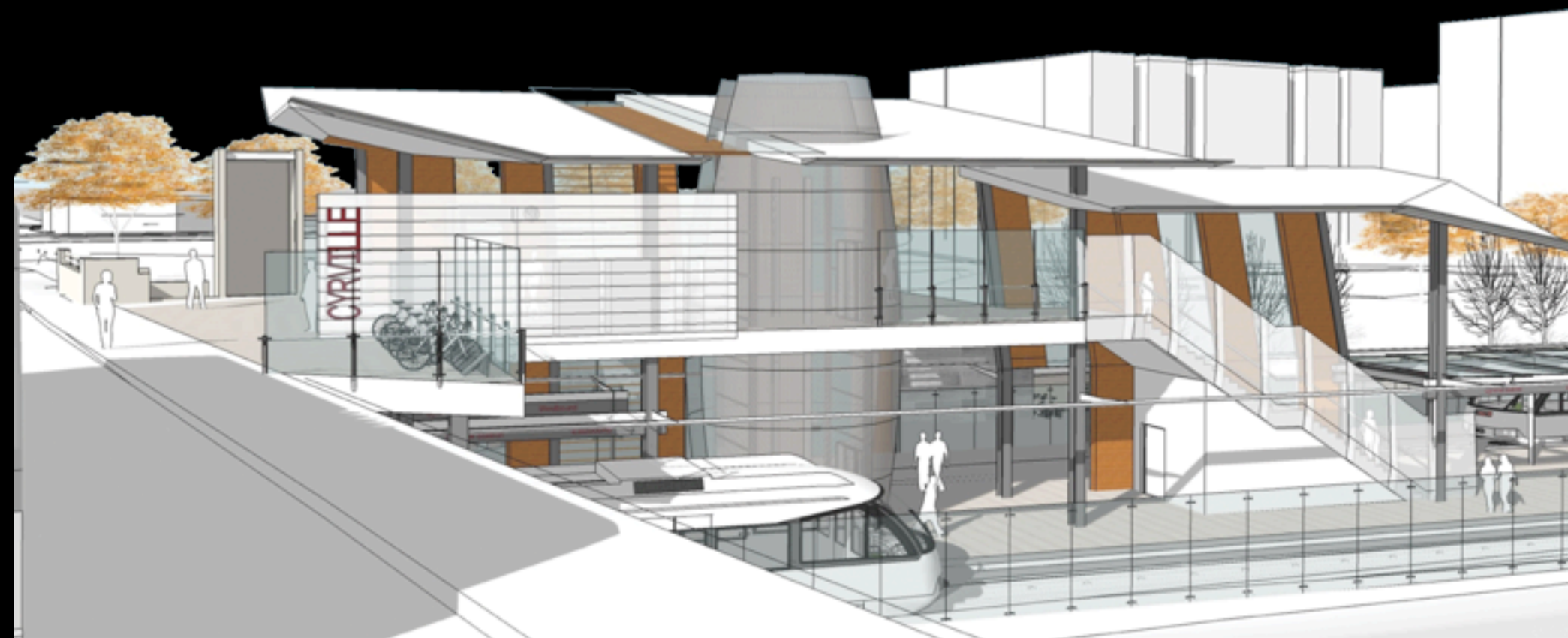
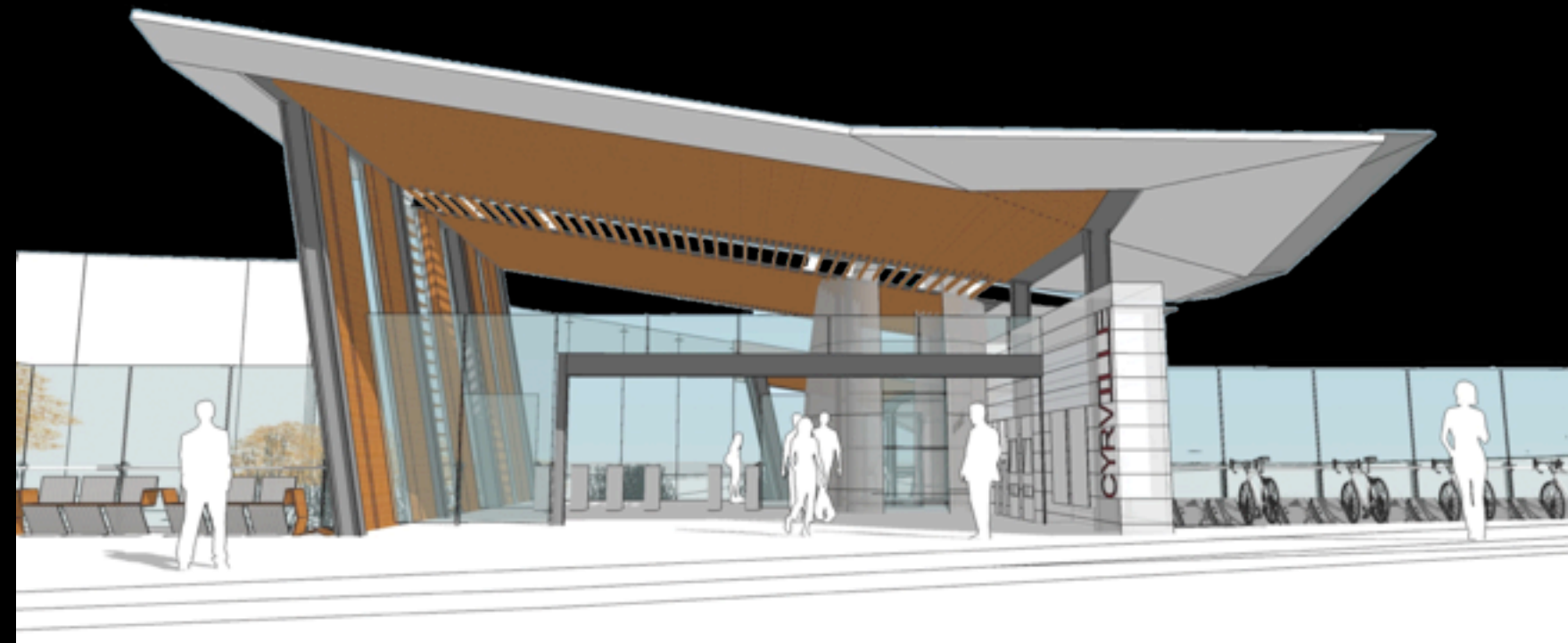
Systemized Design Flexibility / Adaptability Modularity / Standardization /



Systemized Design

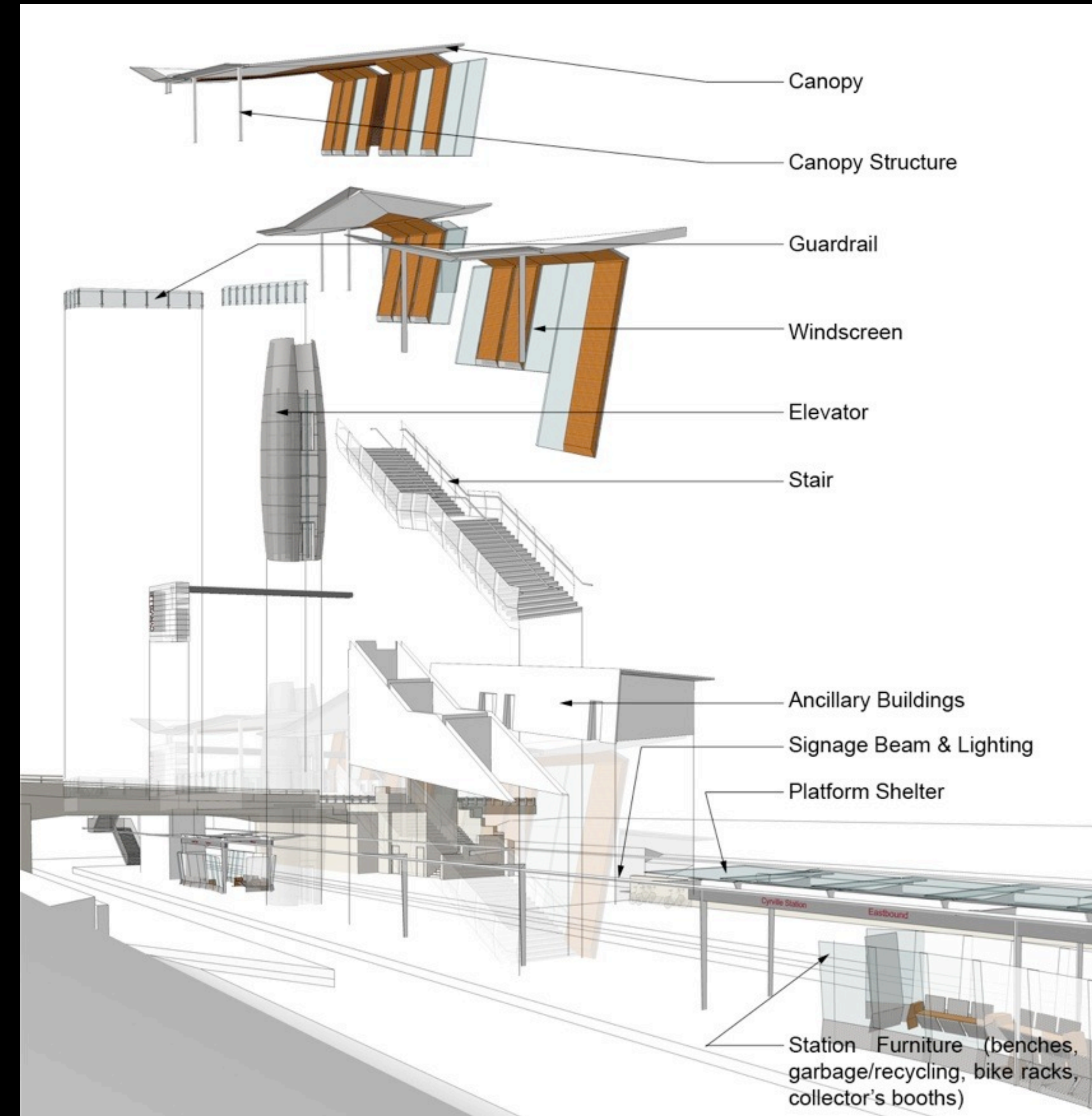
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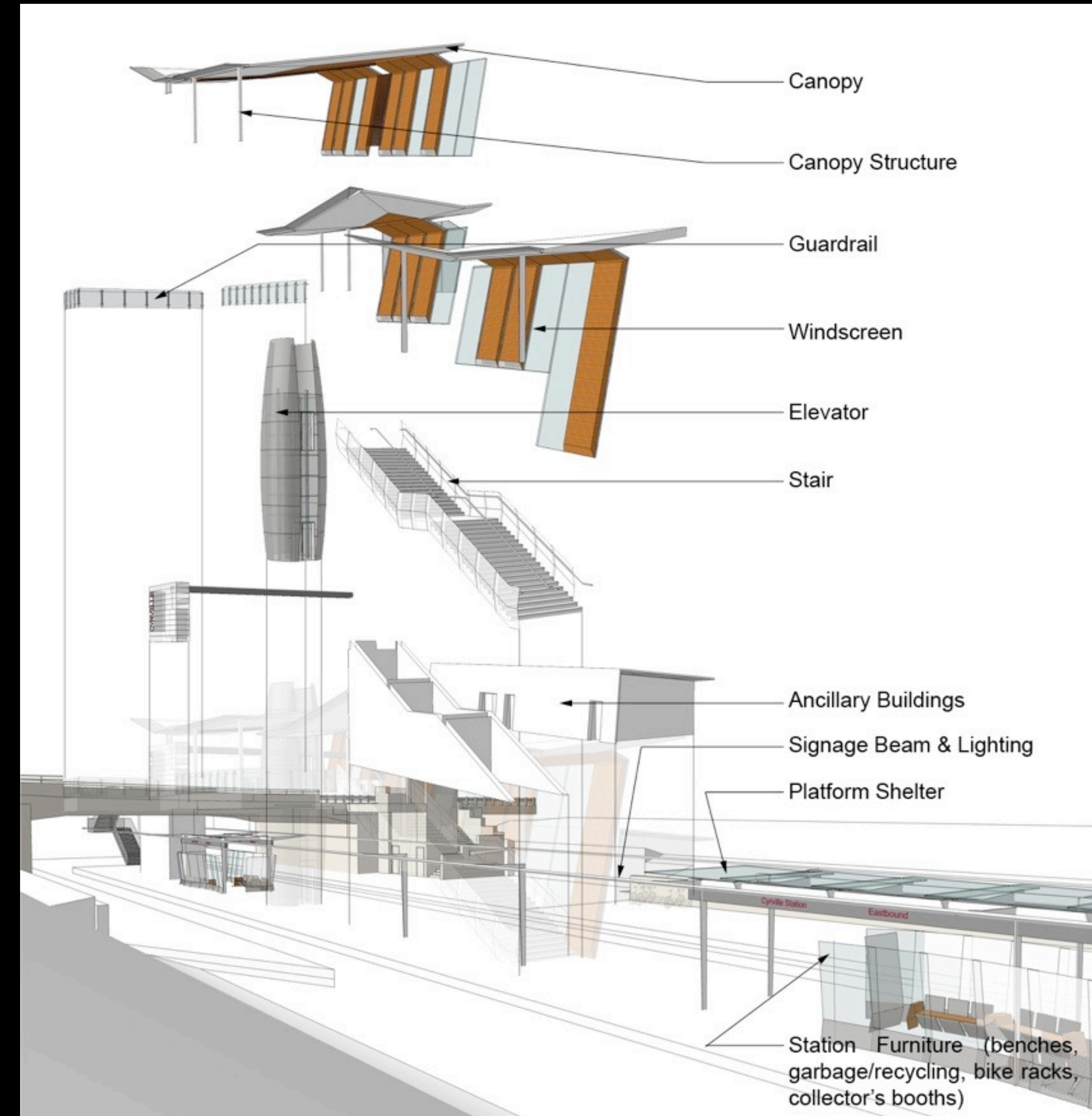
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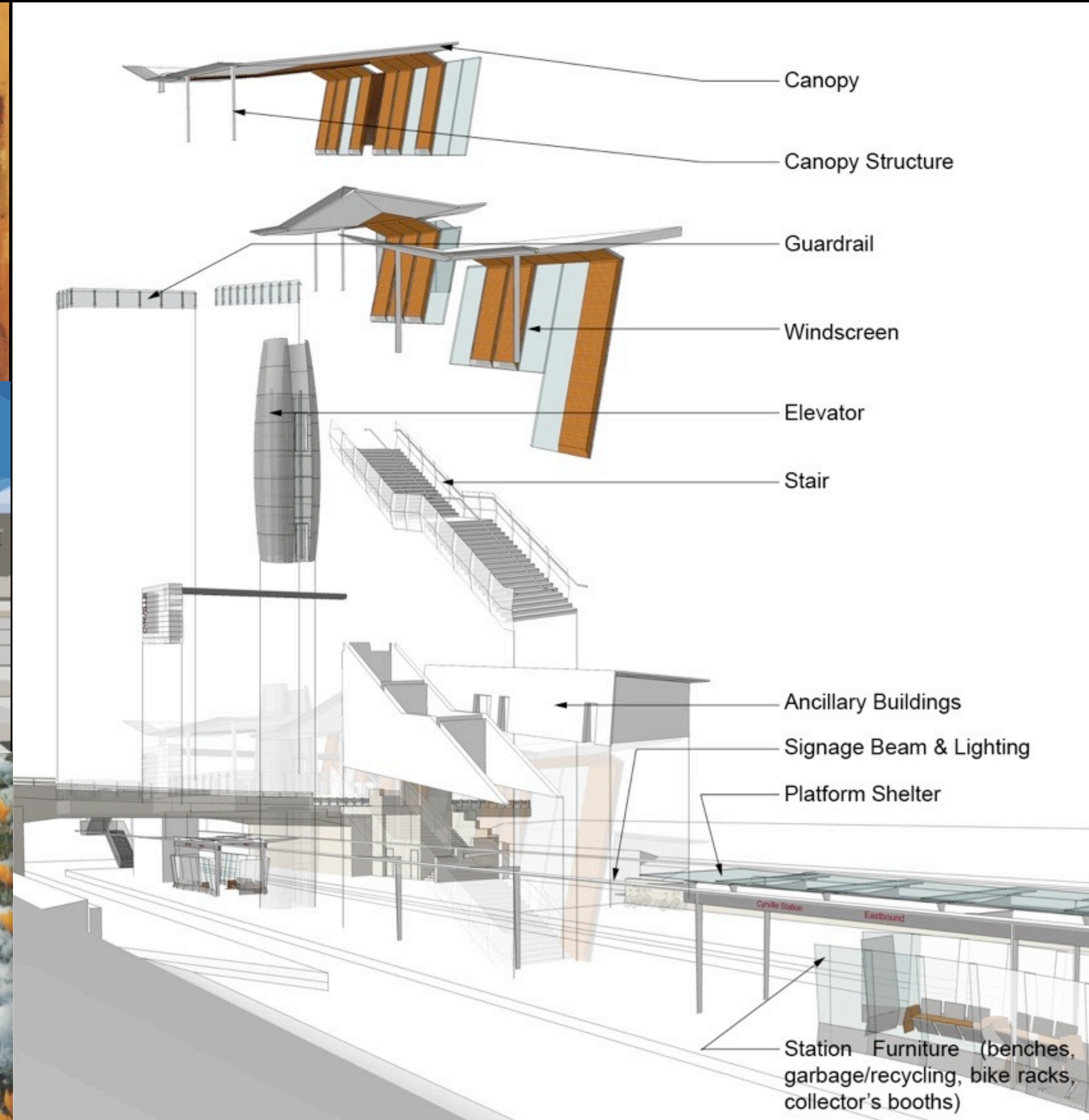
Systemized Design

An Ottawa Palette



Systemized Design

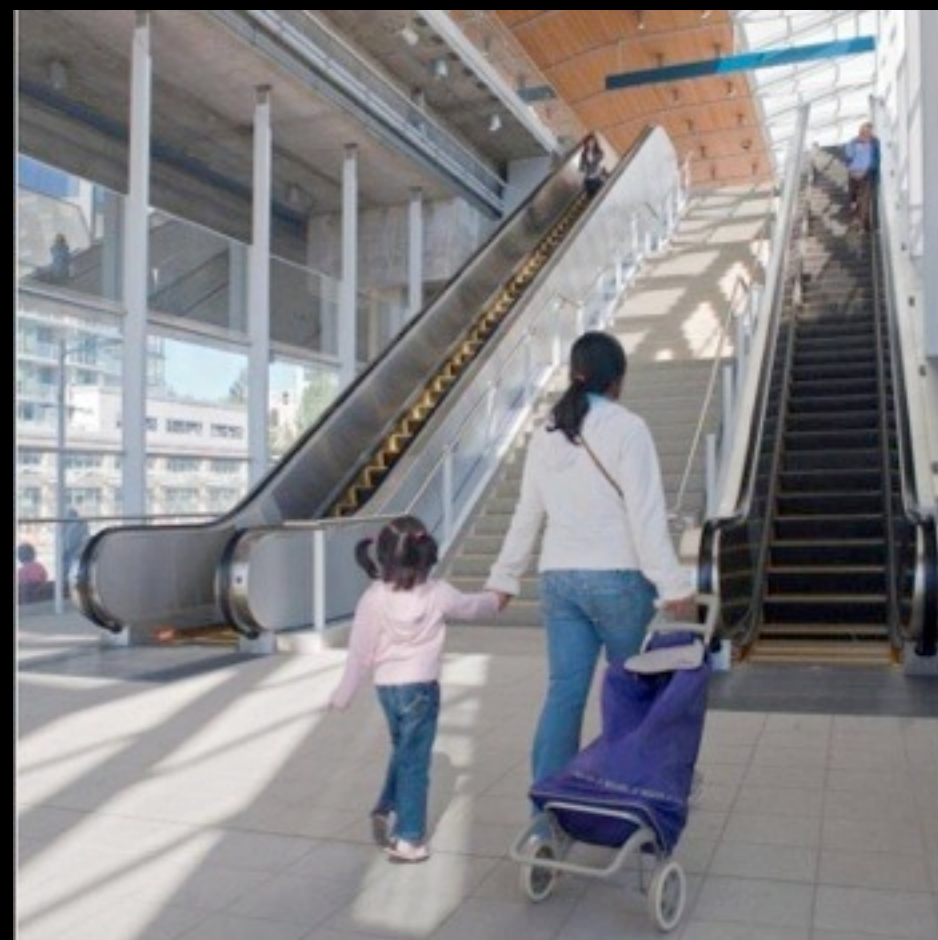
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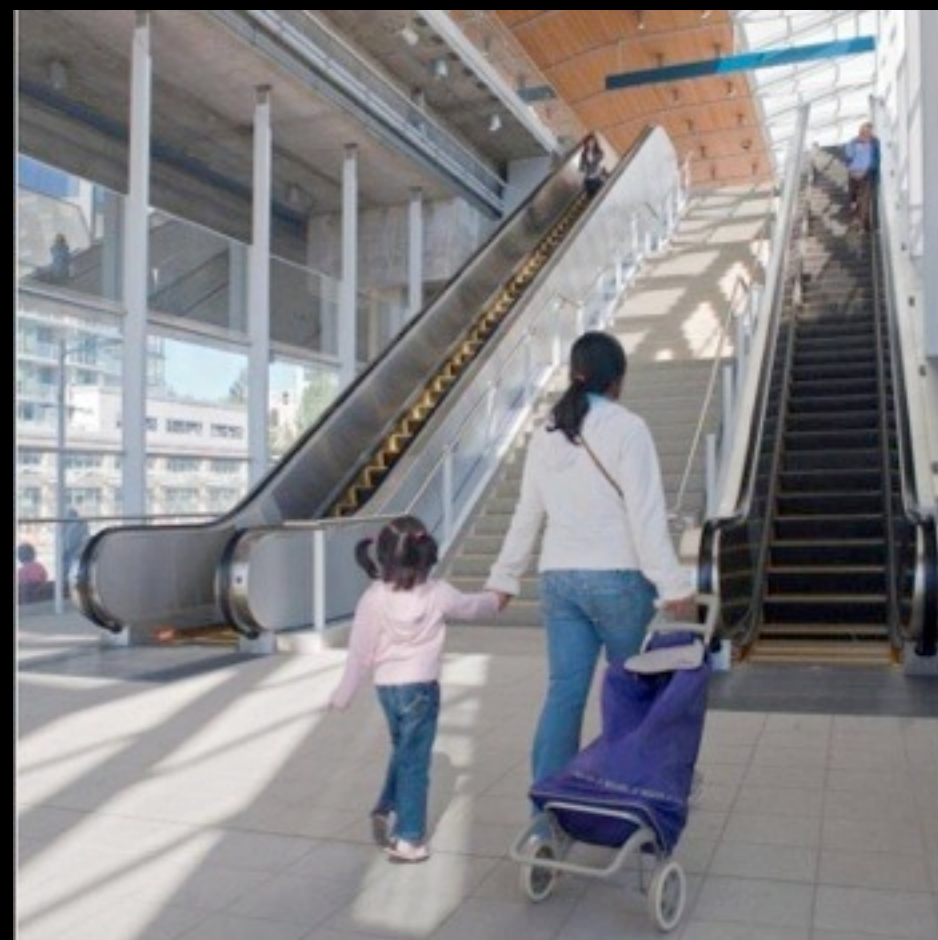
Ridership Experience

Ridership Experience
intuitive orientation
humane
comfortable
safe & accessible

stations which allow riders to
take ownership of them not as
transit stations but as engaging
community spaces and places

stations which explain themselves
from a block away



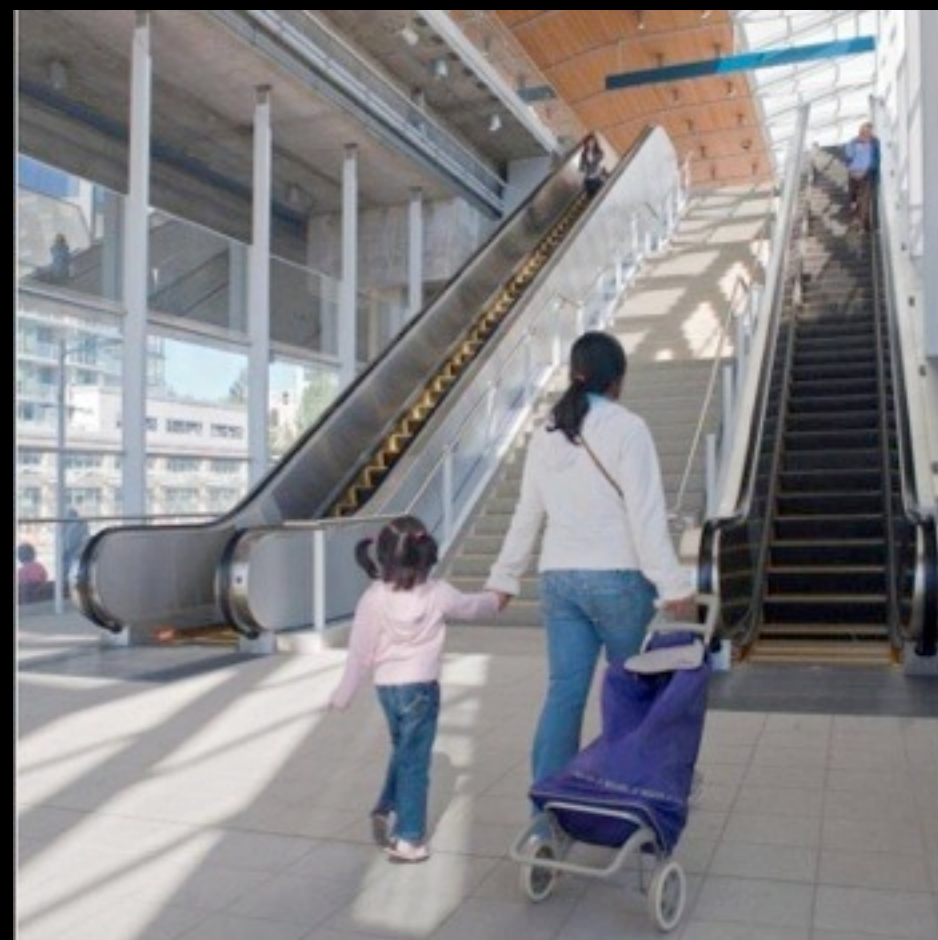


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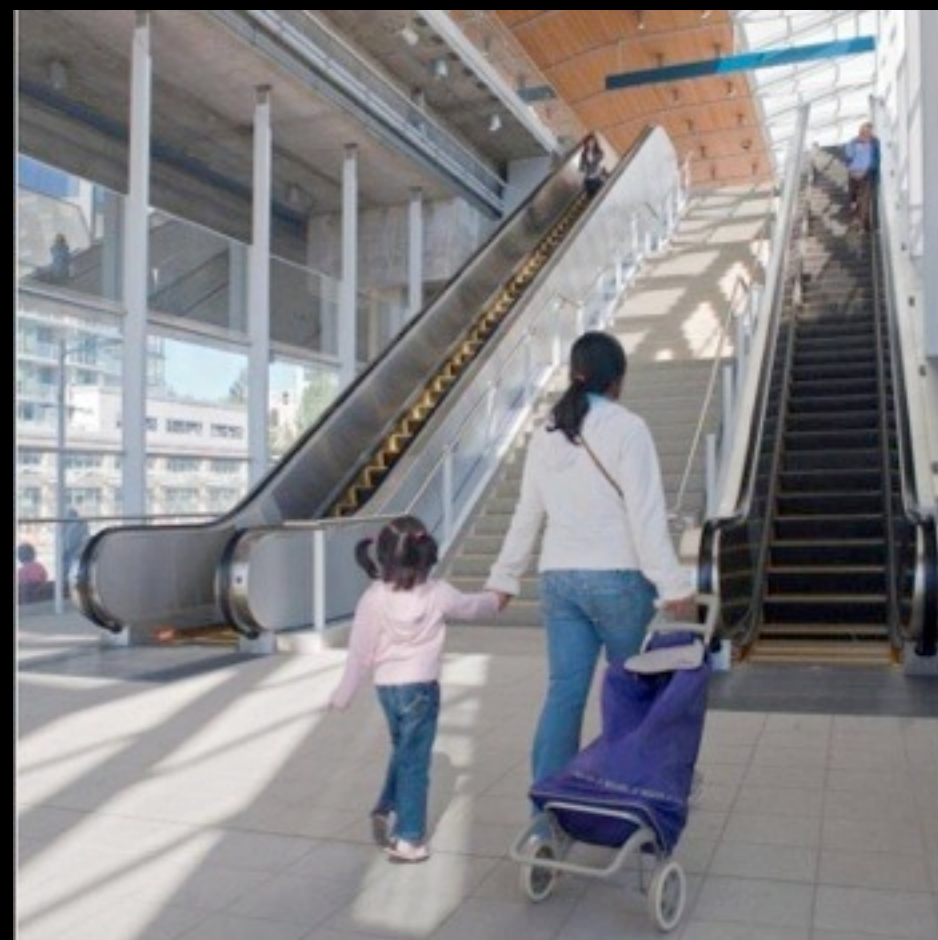


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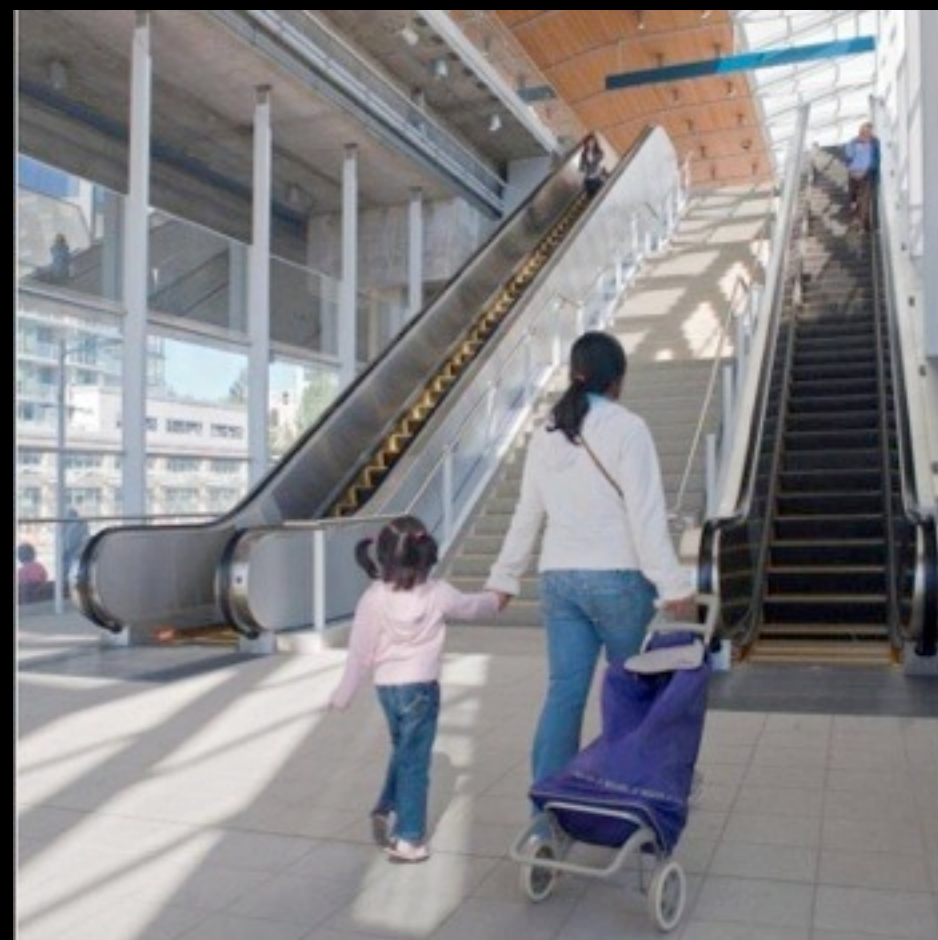


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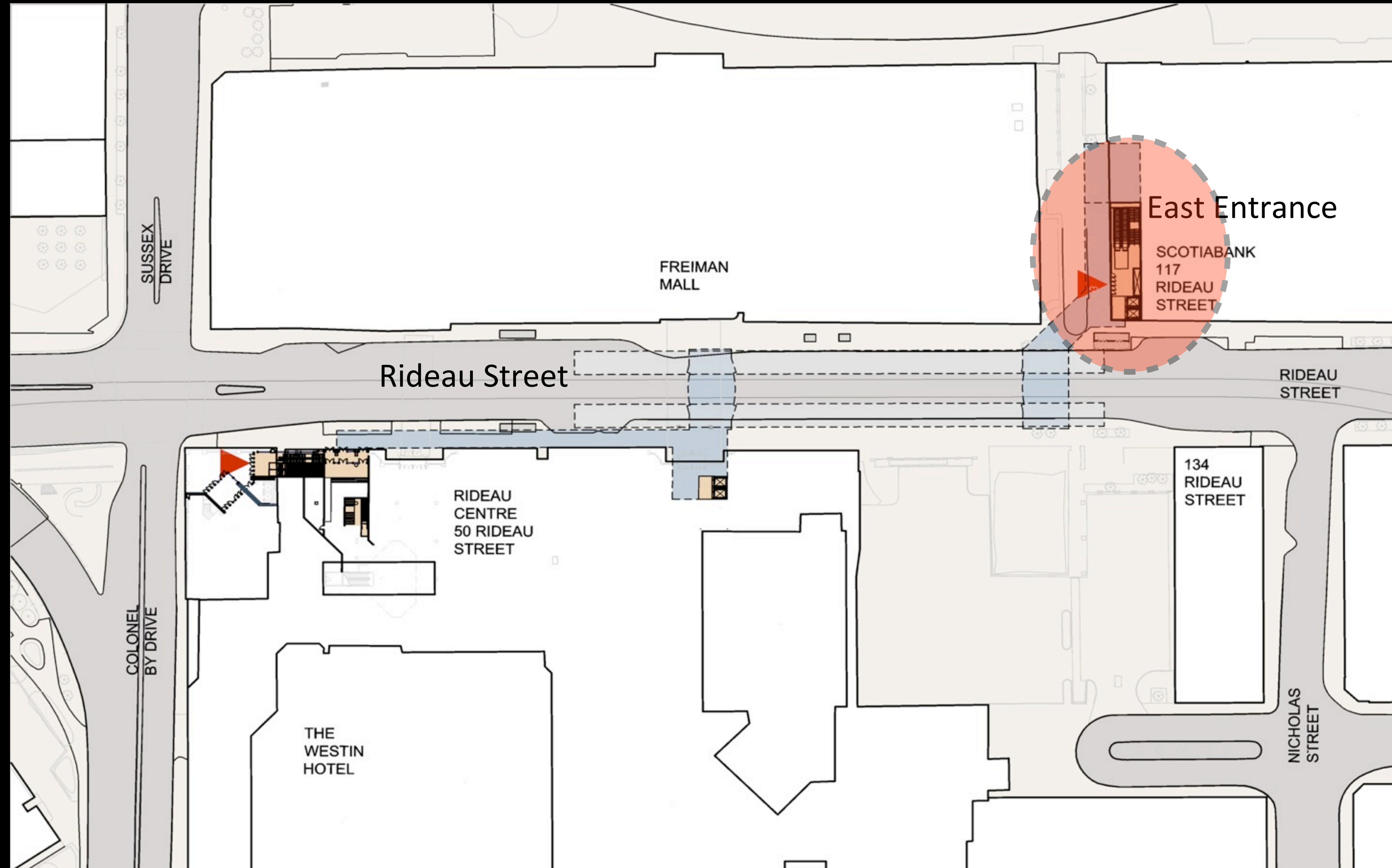


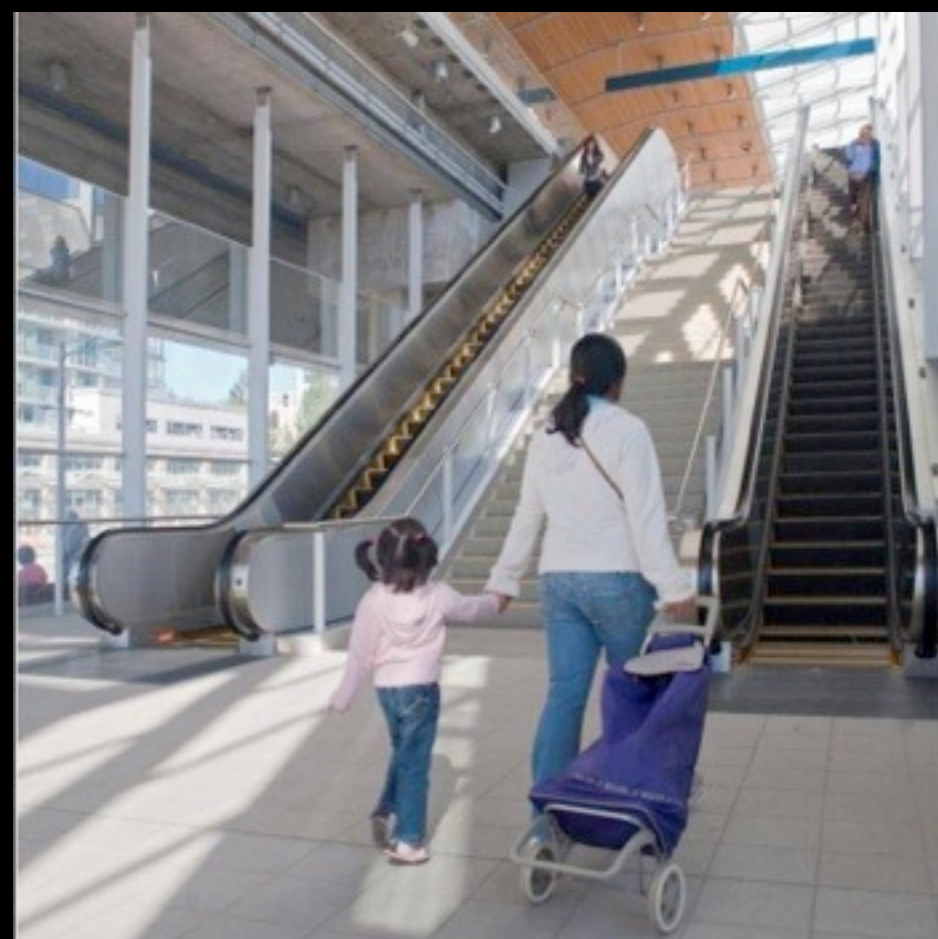


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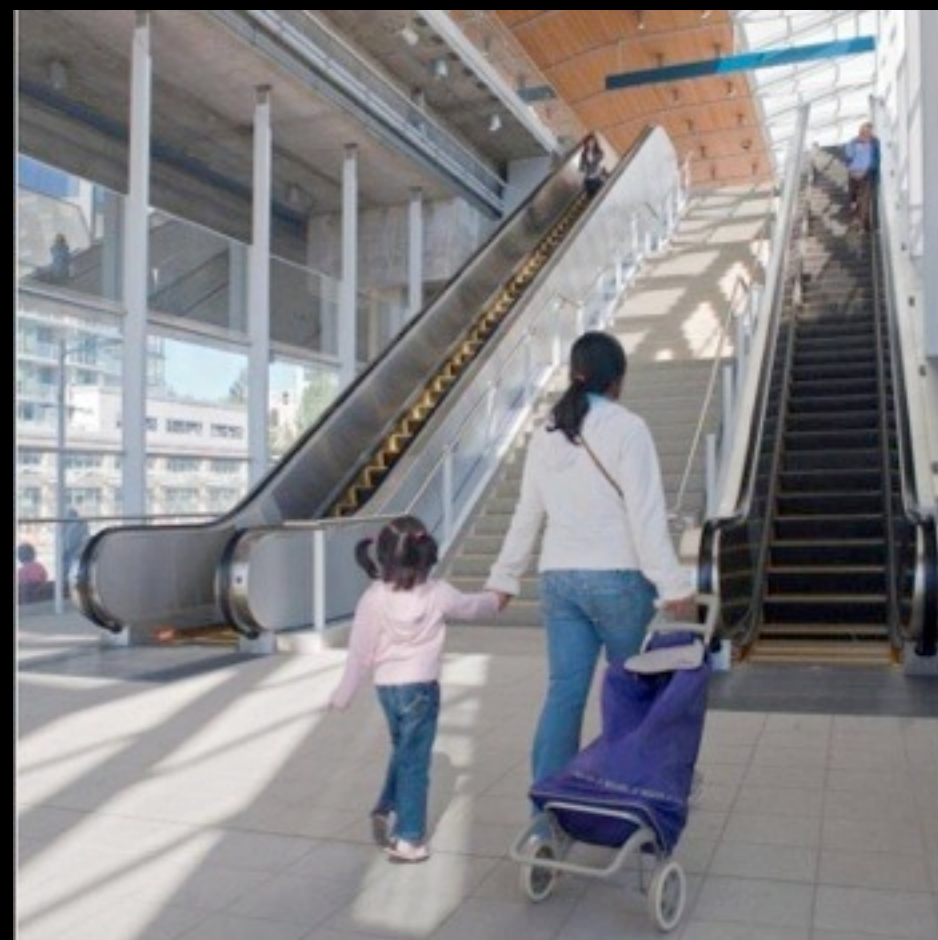


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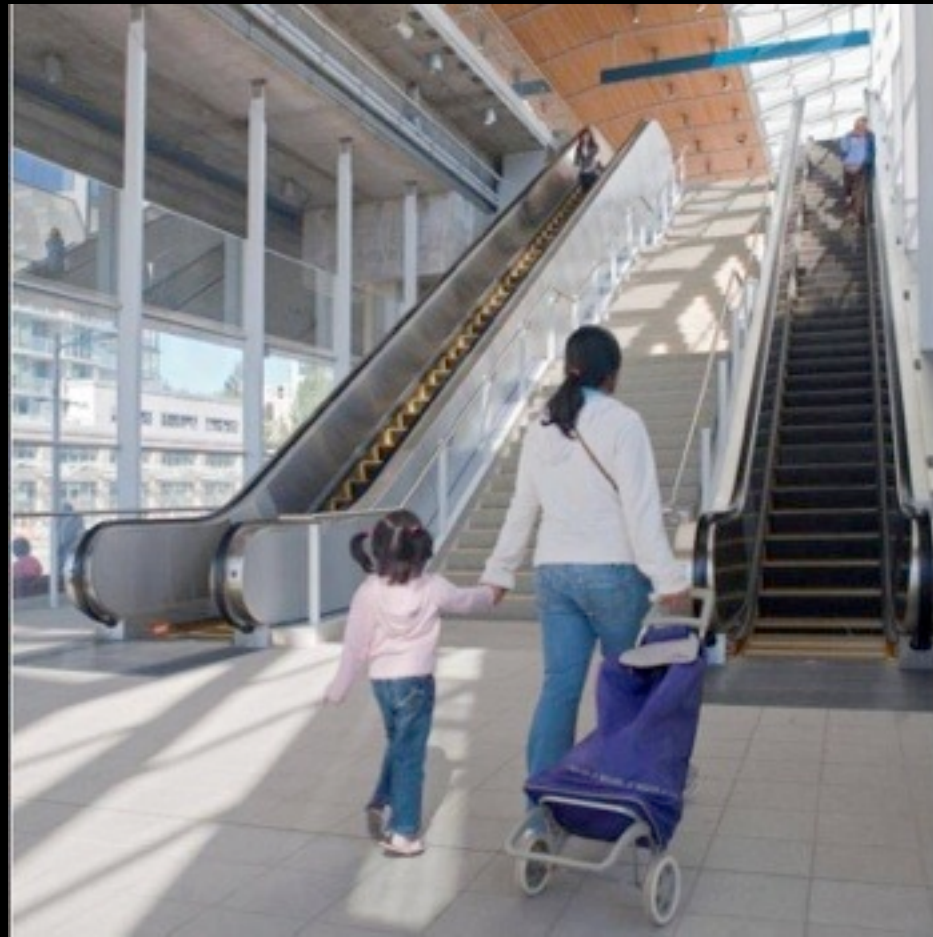


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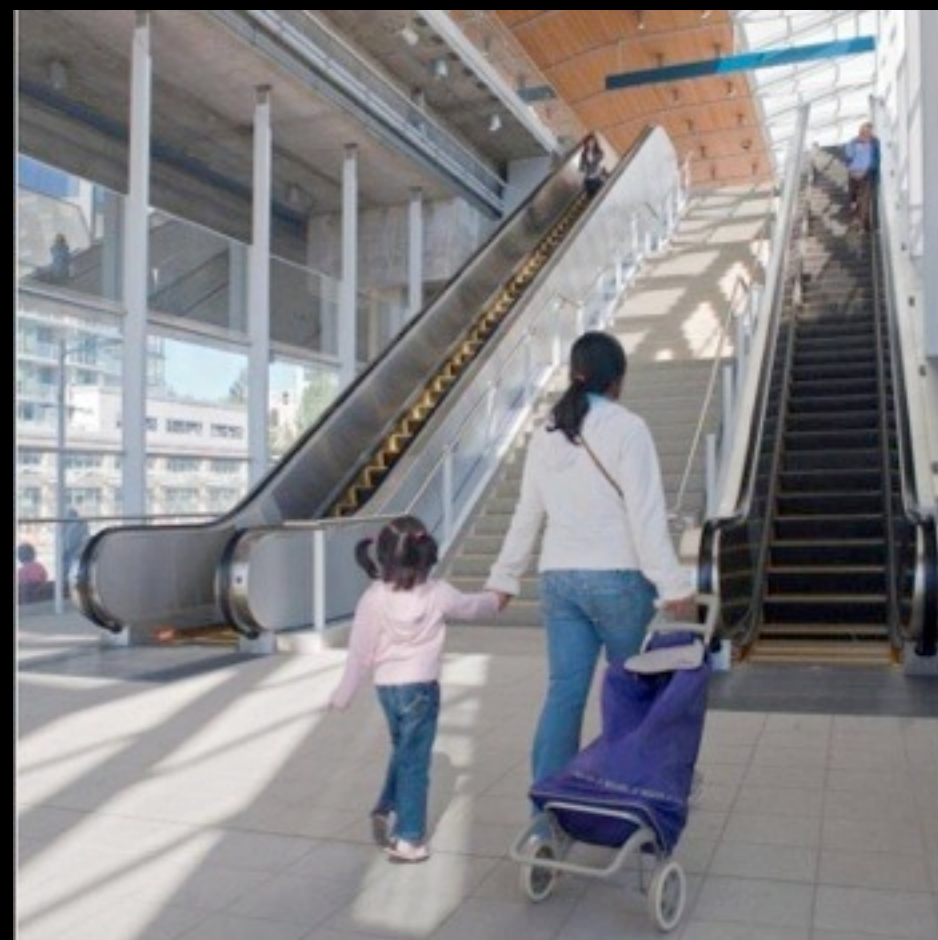


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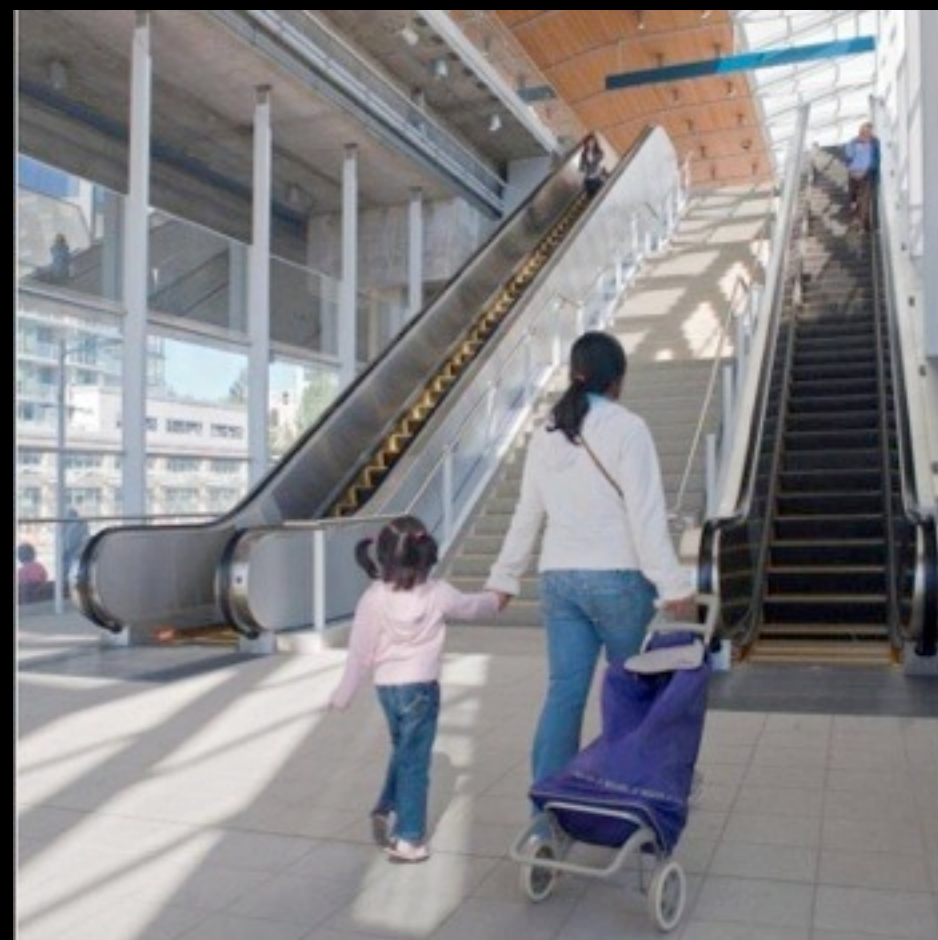


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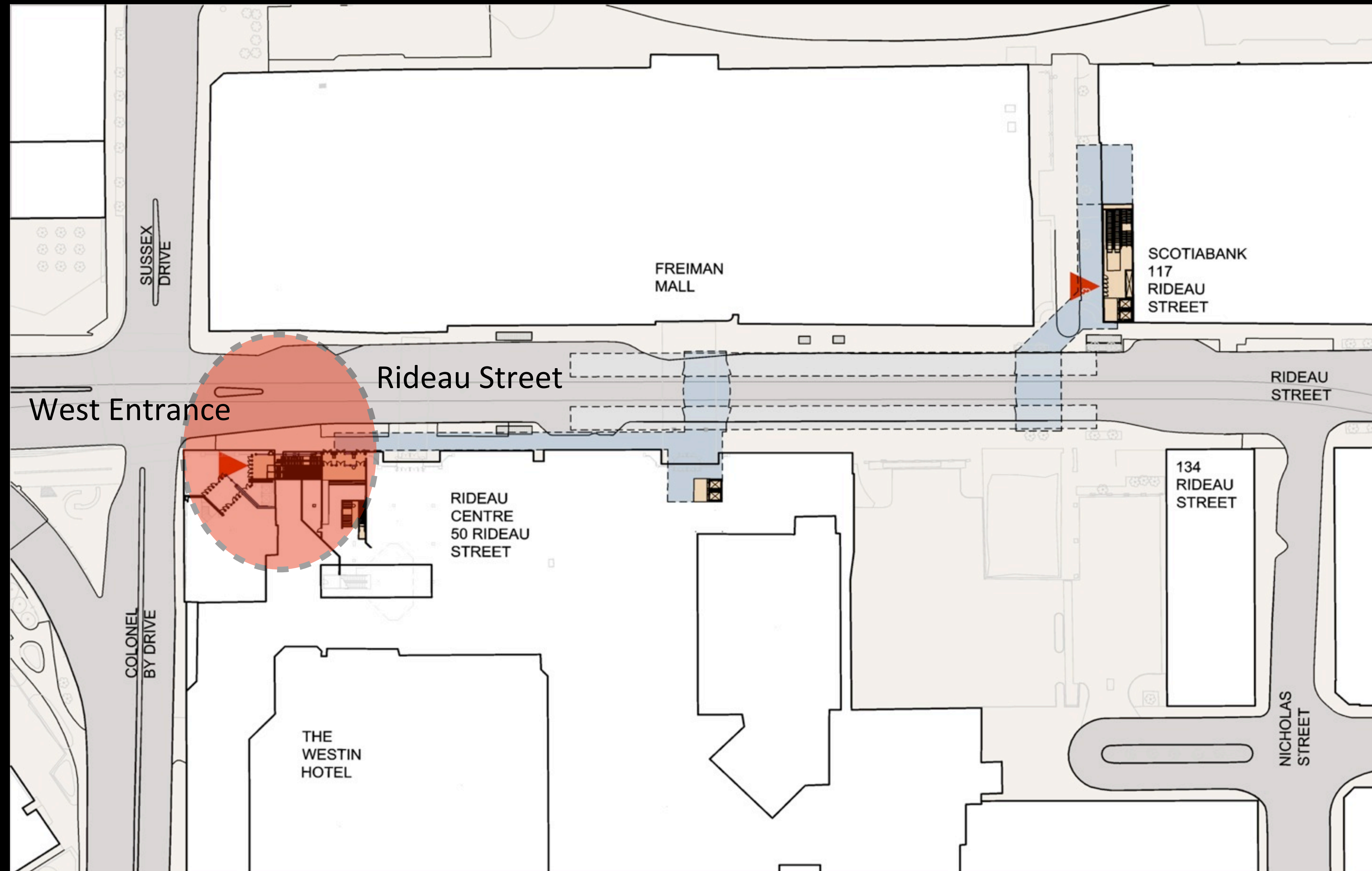




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Ottawa the City & G8 Capital

Brand represents the city and Capital's core values
(sustainable development progressive design,
considered growth)

**Not a series of stations but a
continuous Civic building with
entrance and forecourts embedded
in the communities it serves**

As a civic building it should be an ambassador tells
stories literally and subliminally about our city
engages the public intellectually and emotionally

Needs both urban and architectural legibility and
continuity i.e. iconic and yet familiar and friendly





Tunney's Pasture Station



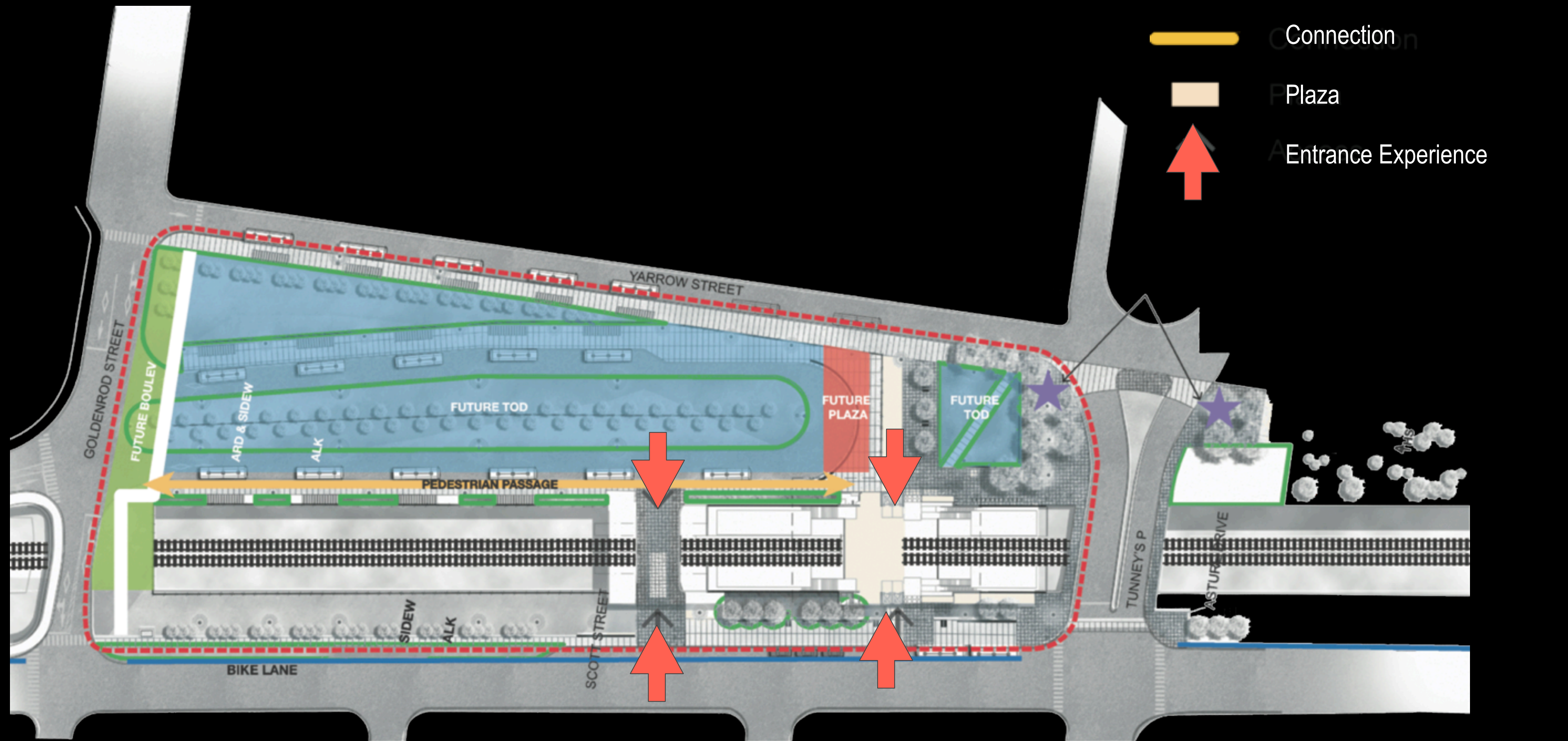
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- Limit of Work
- ★ Gateway
- Urban Landscape
- Connection
- Plaza
- ↑ Entrance Experience

Tunney's Pasture Station



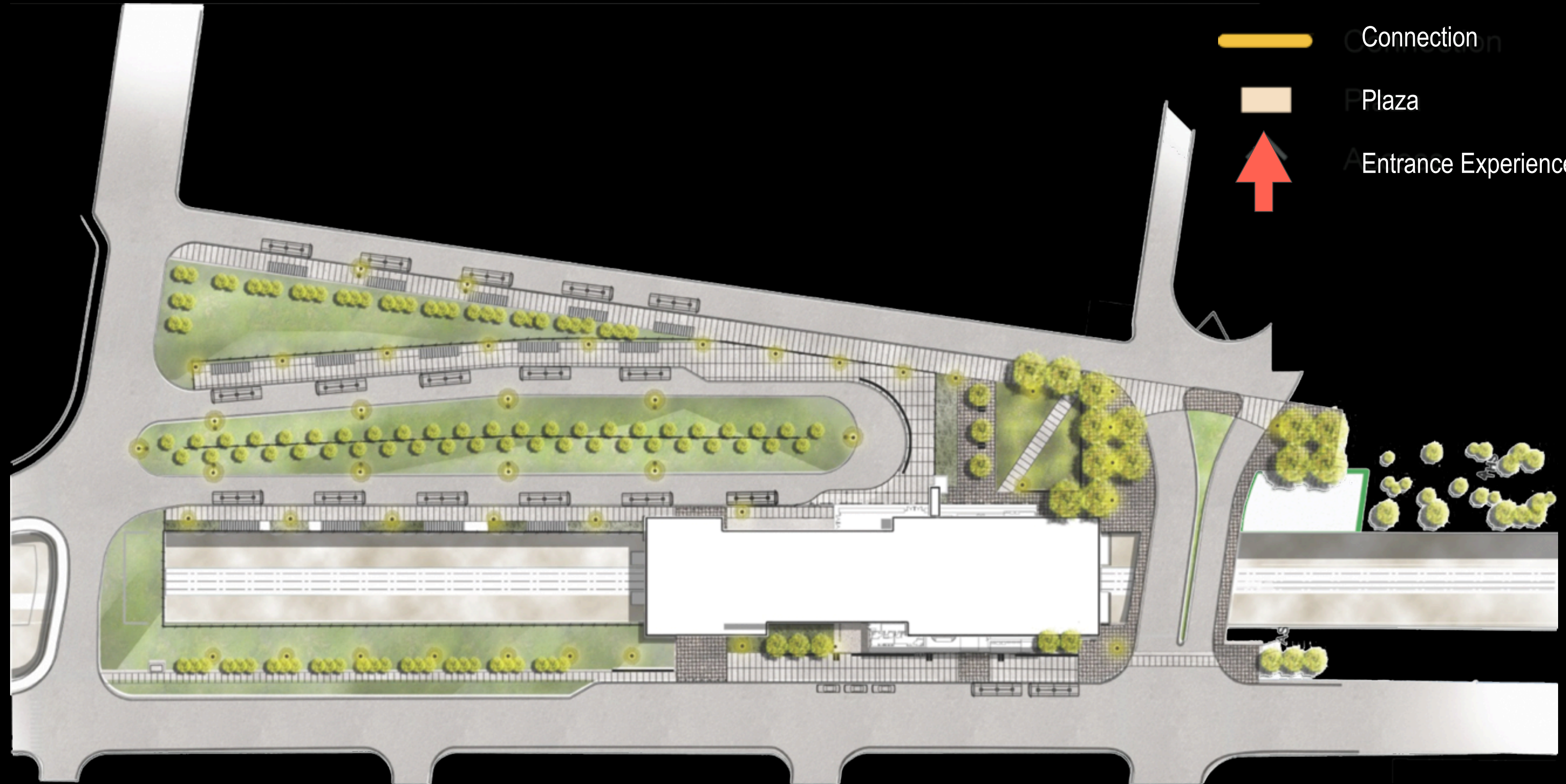
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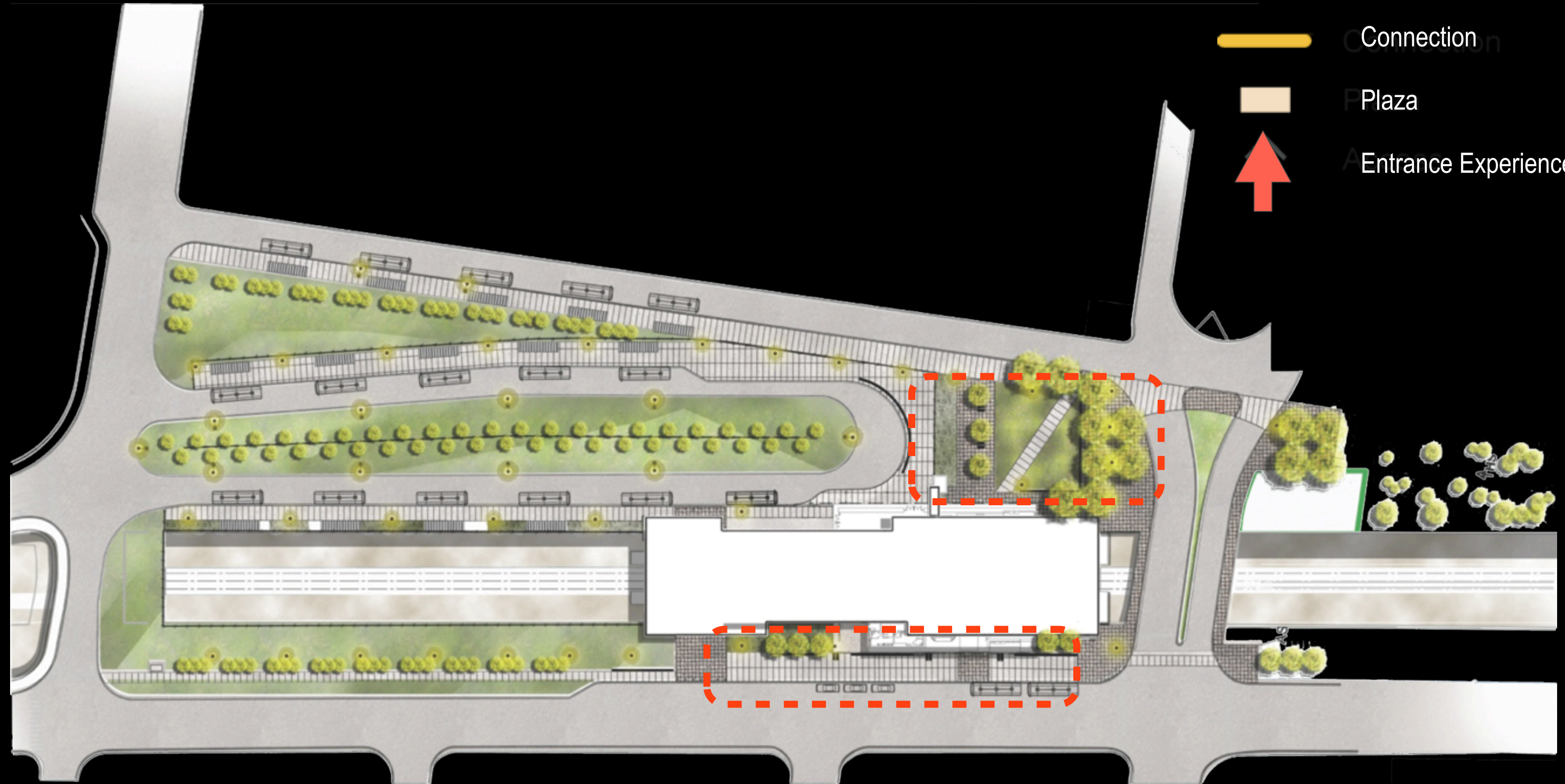
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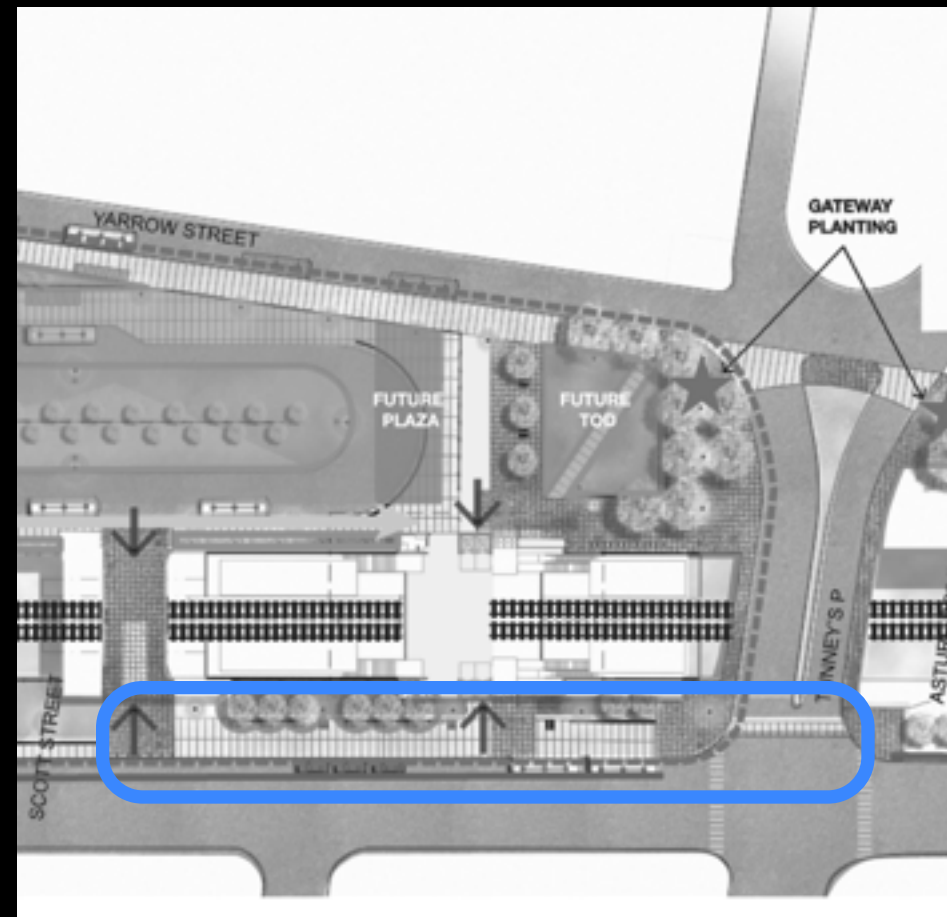
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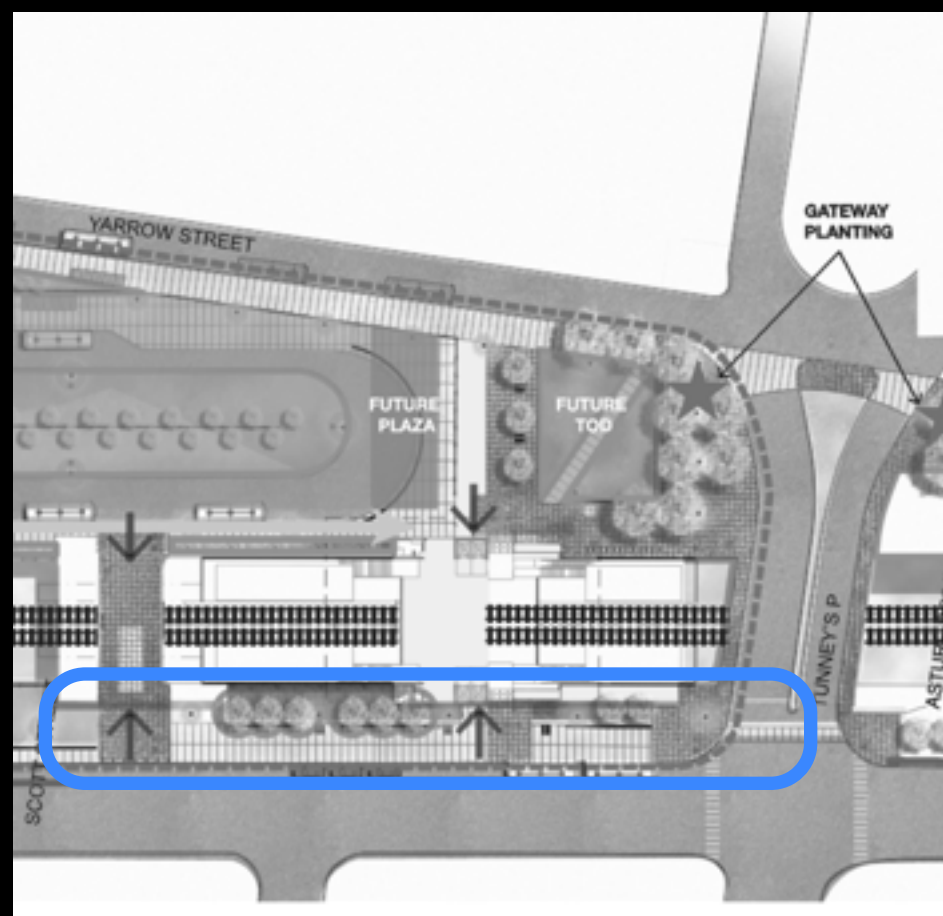
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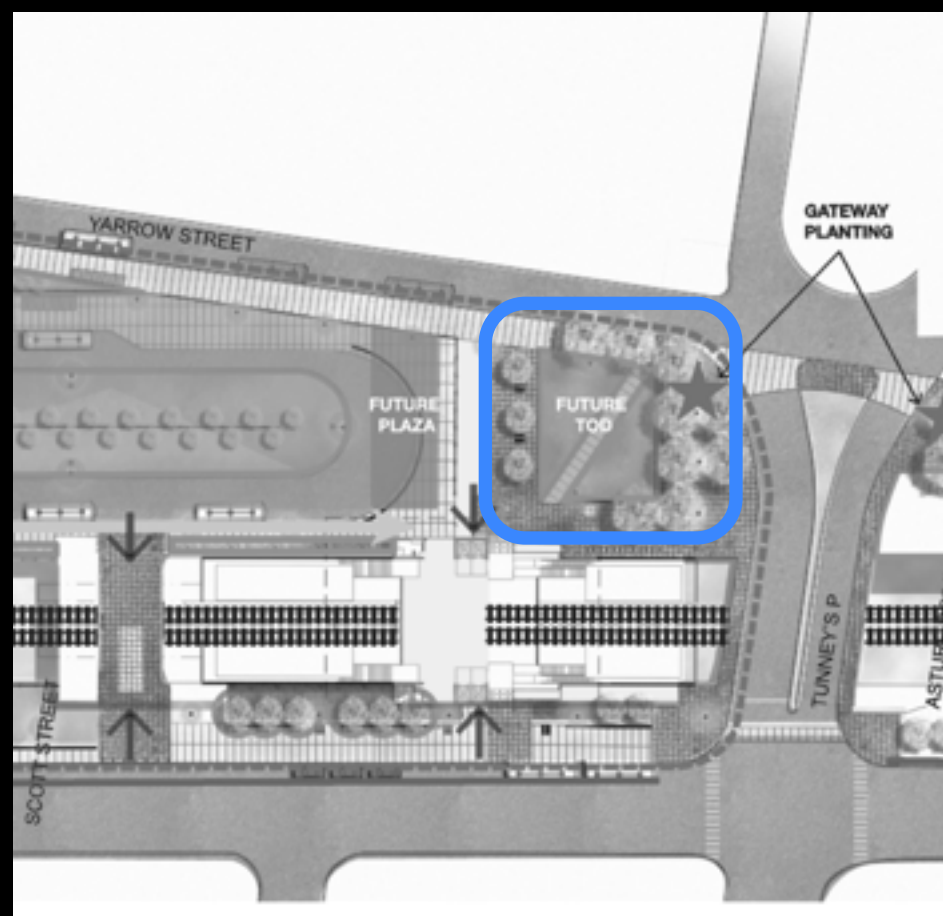
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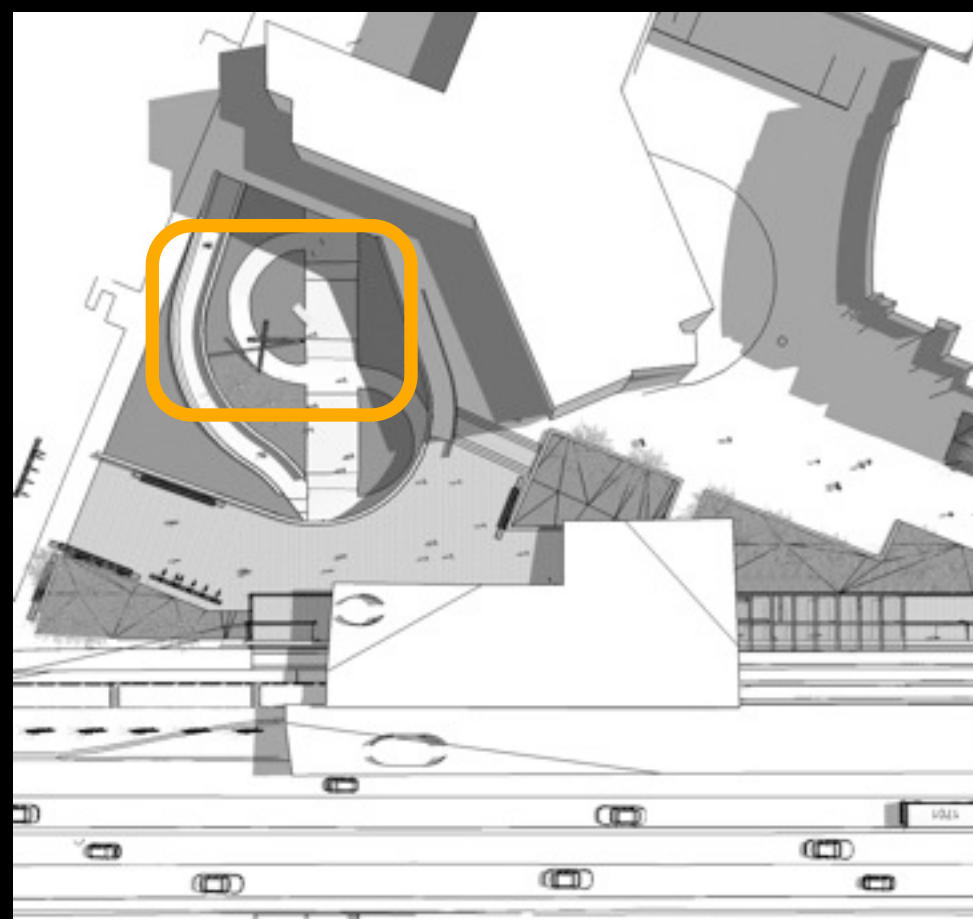
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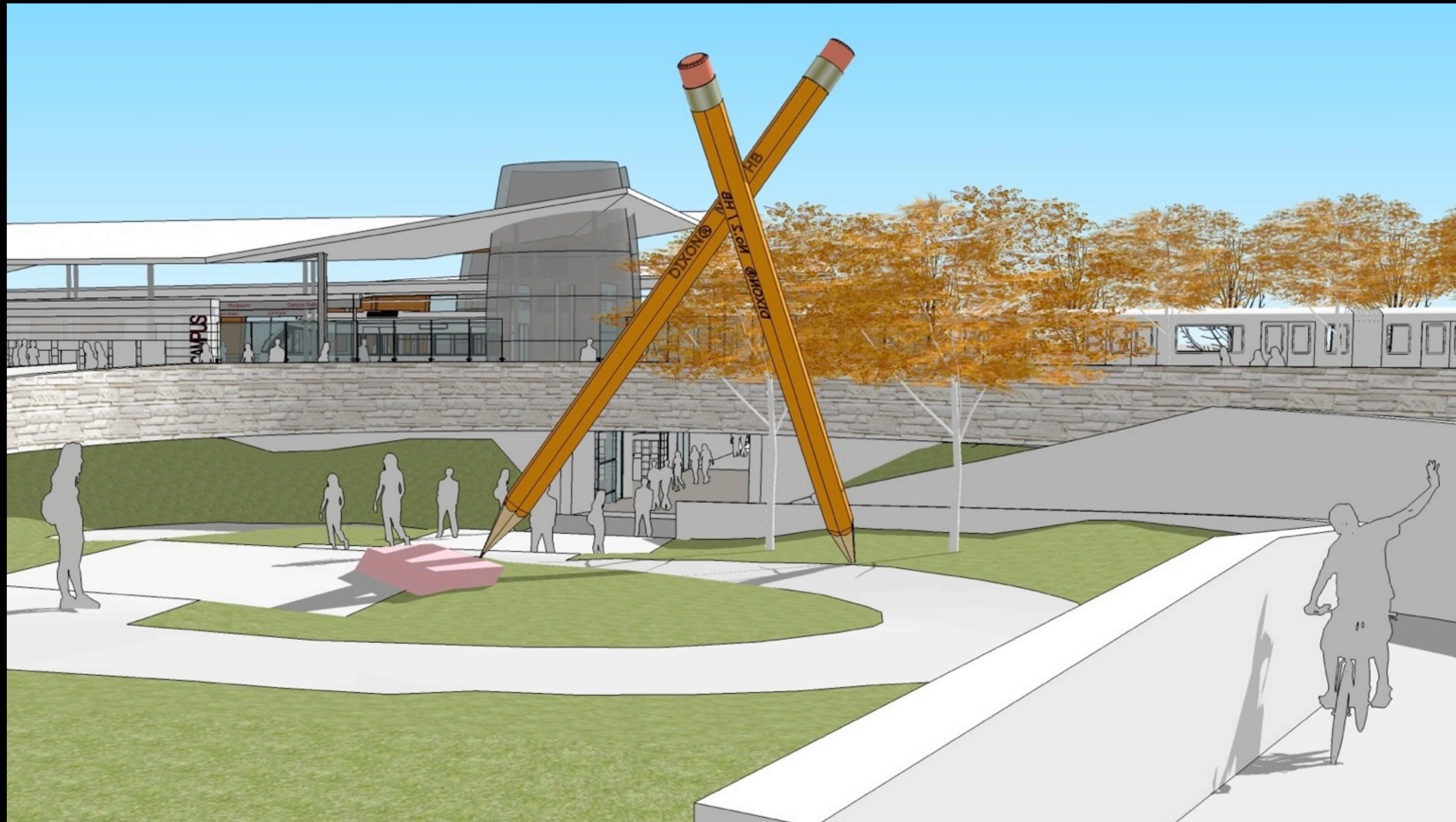
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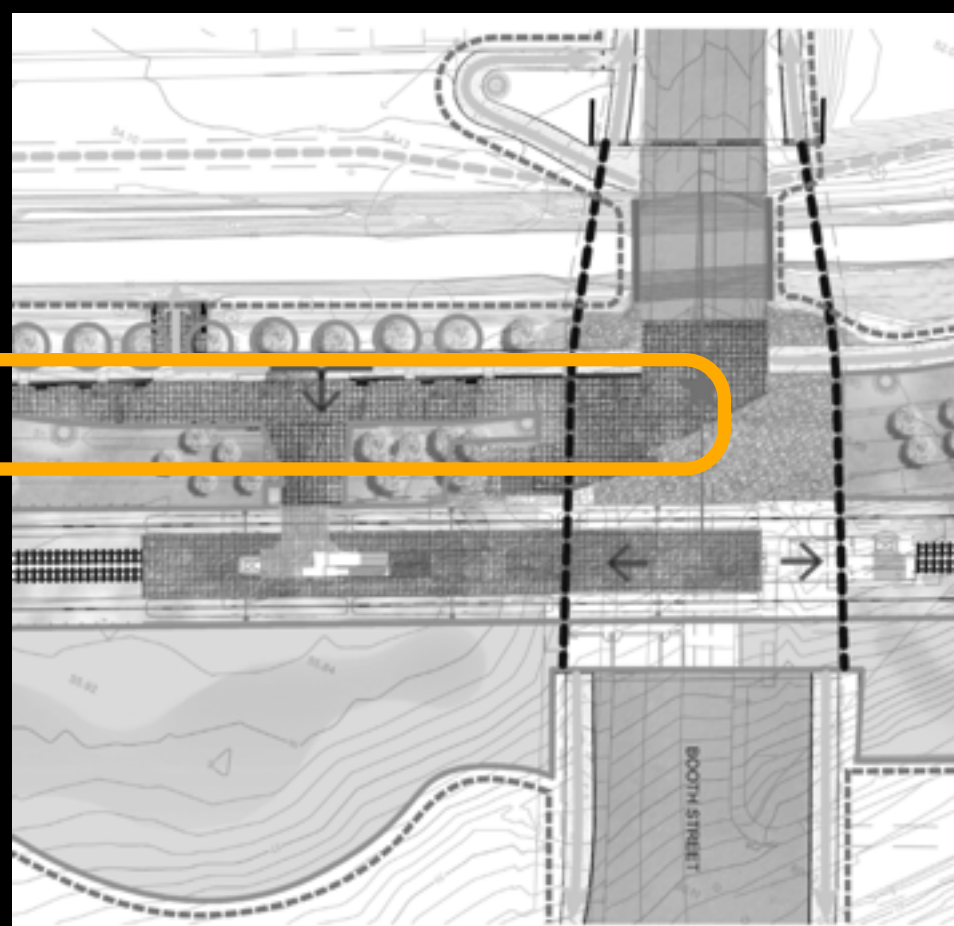
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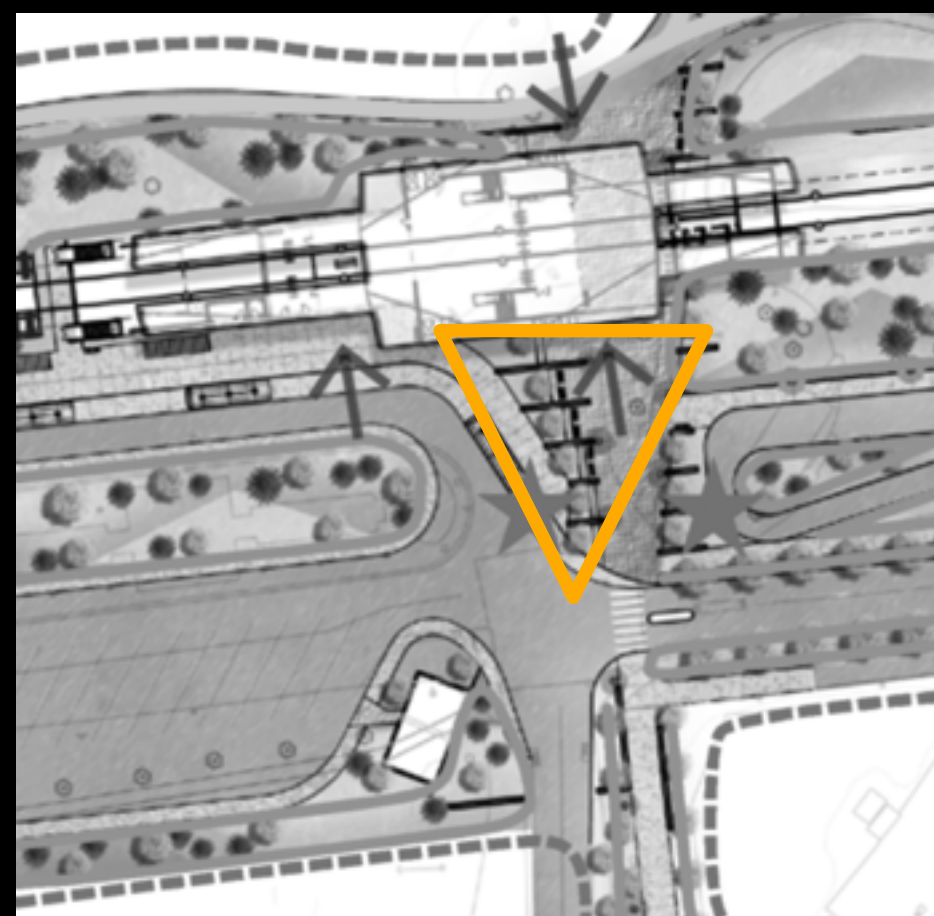
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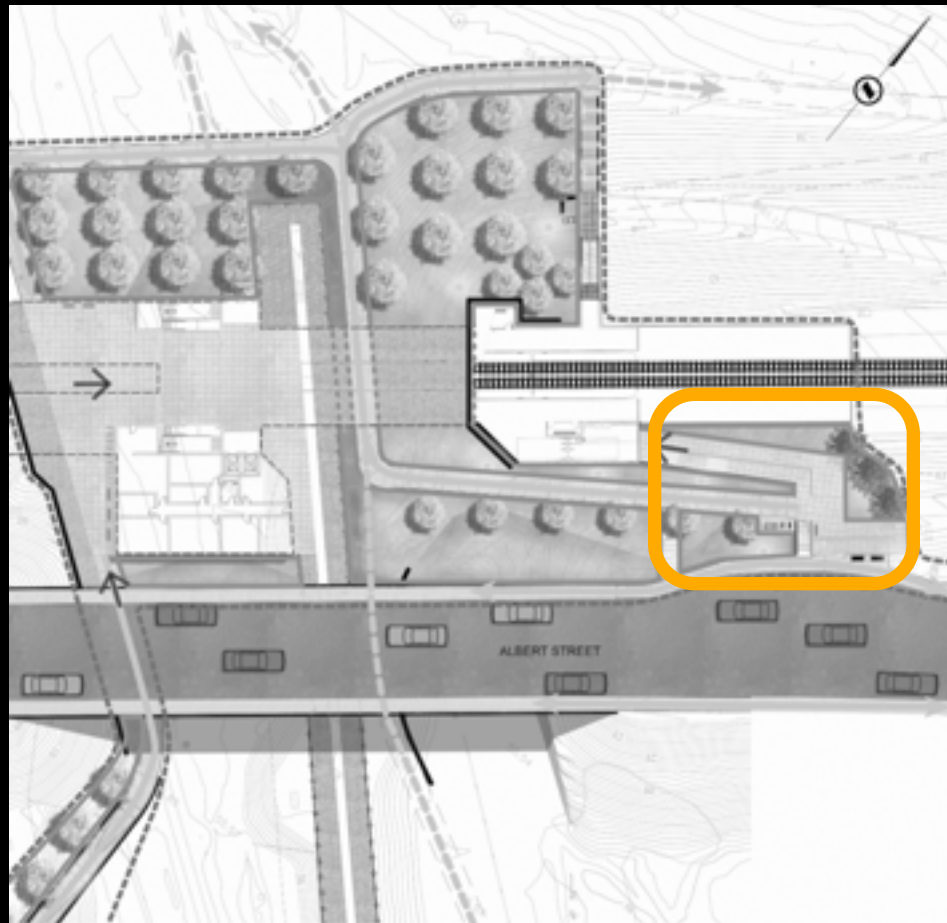
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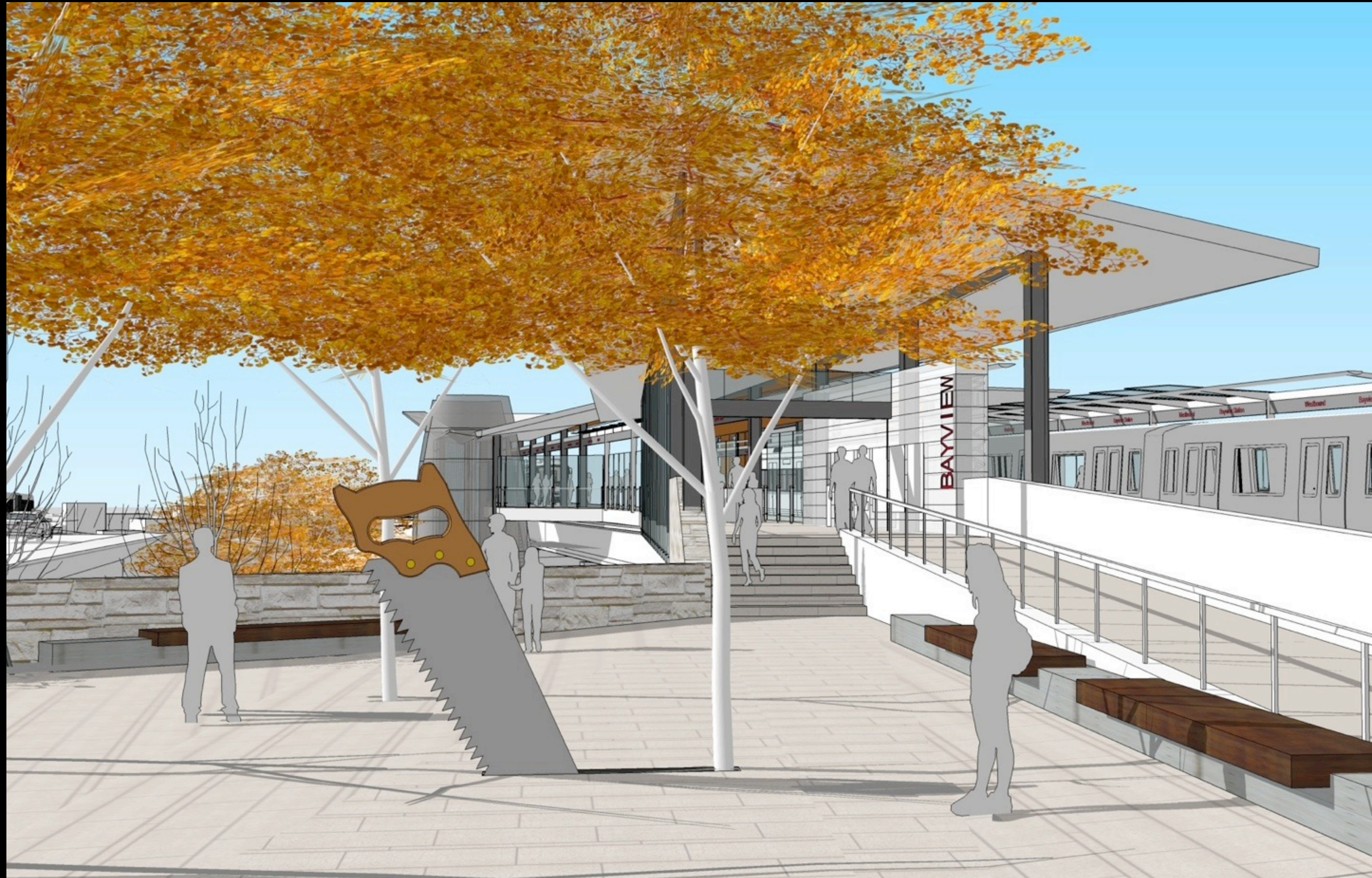
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Ottawa G8 Capital

Changing the way we See Ourselves and The Way
World Sees us



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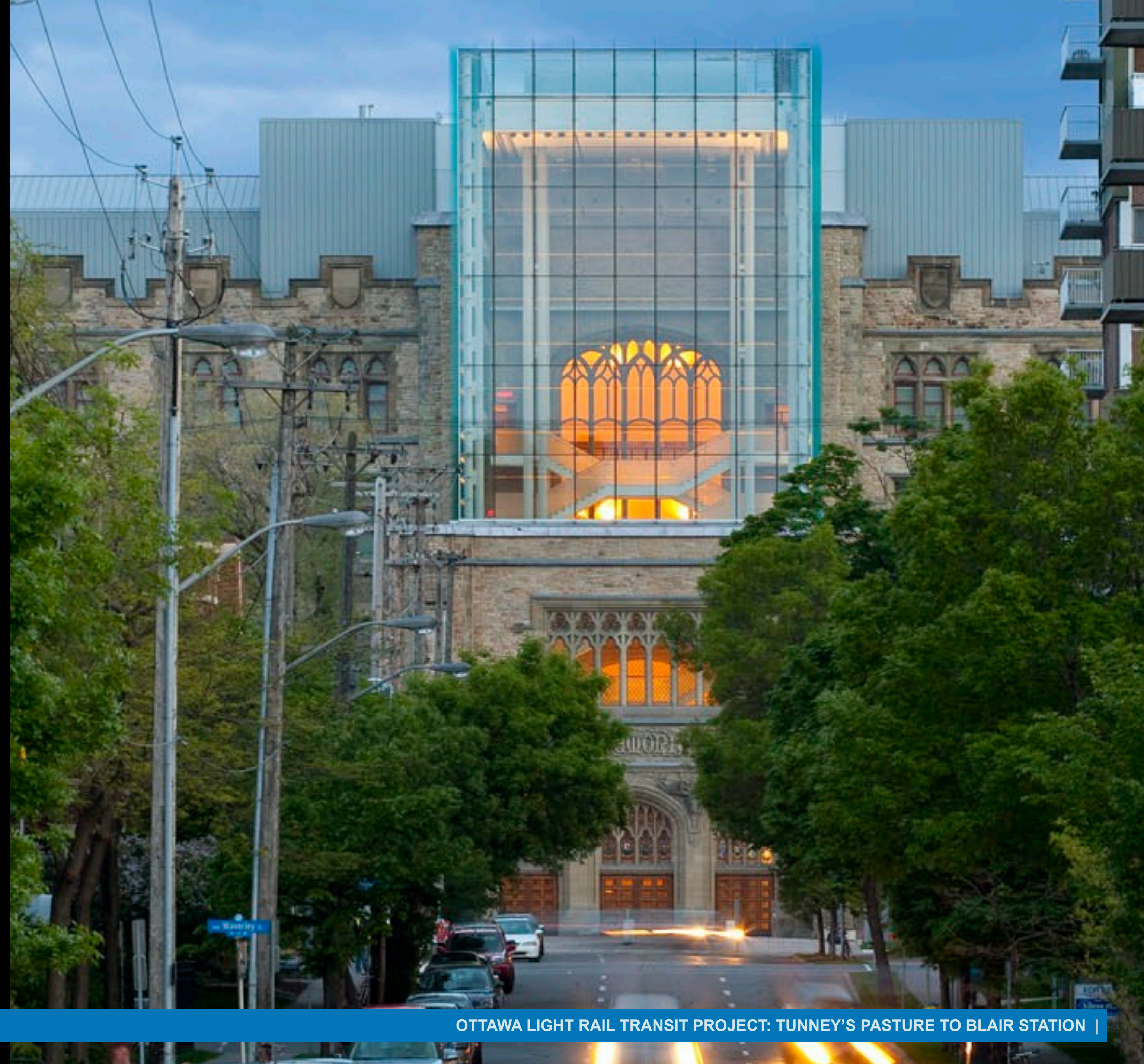
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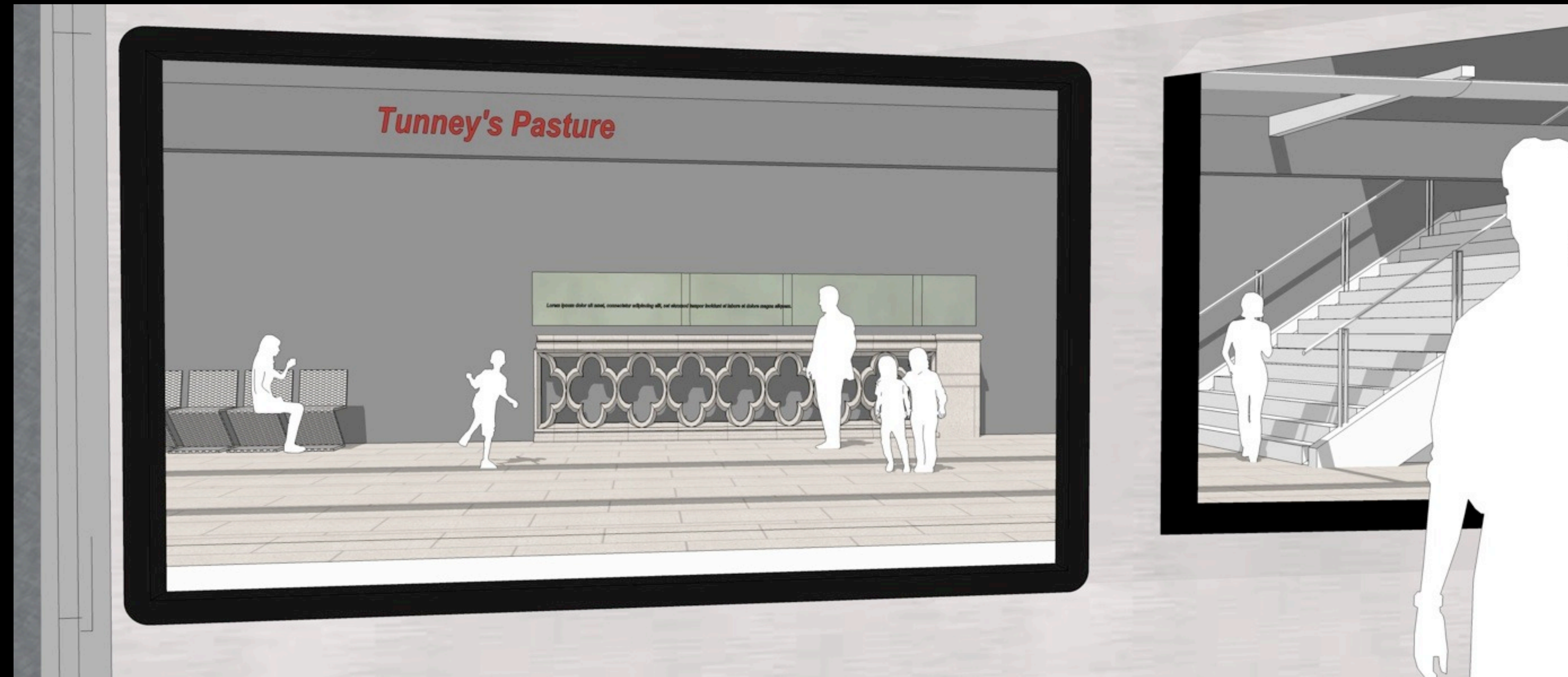
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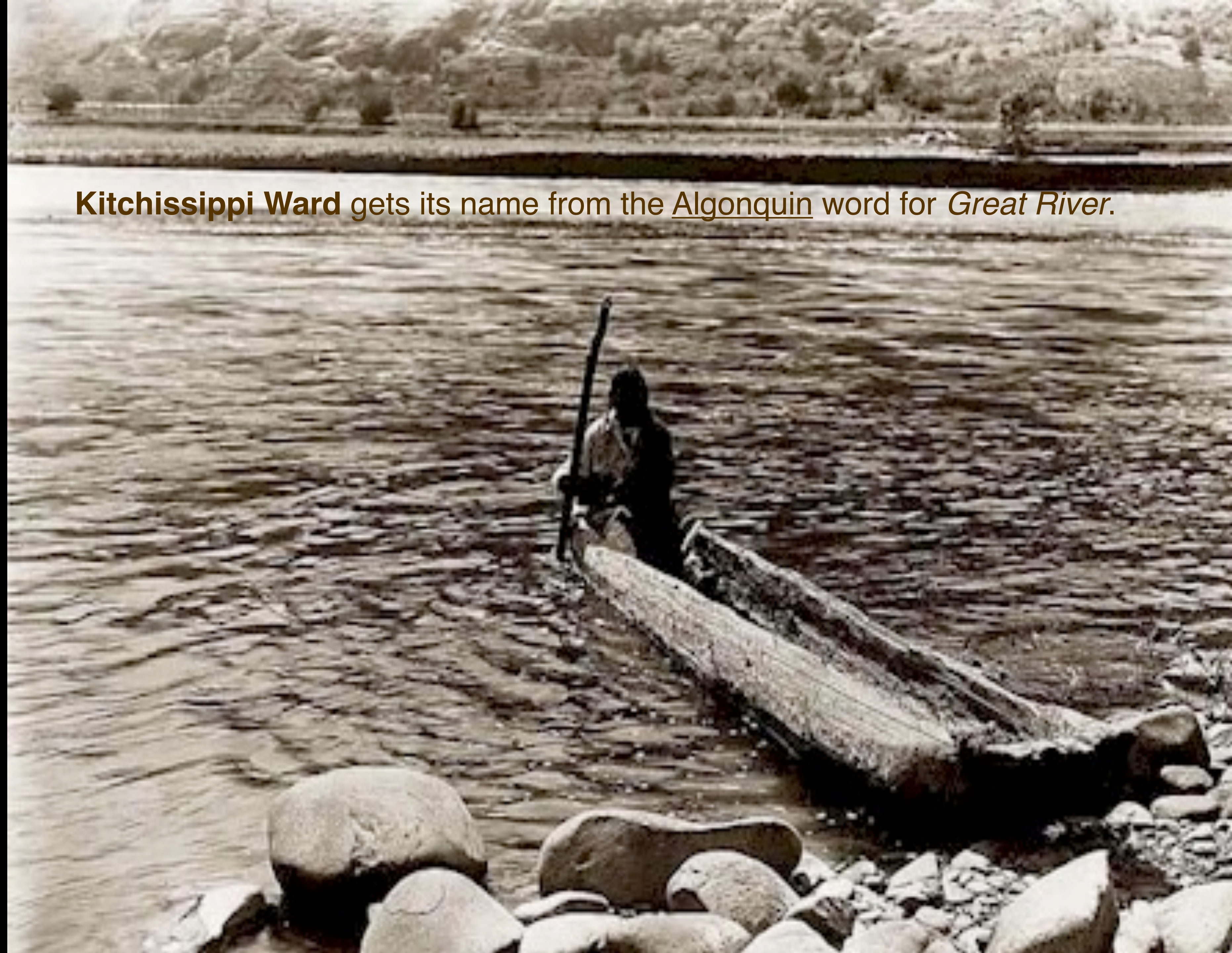
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Kitchissippi Ward gets its name from the Algonquin word for *Great River*.





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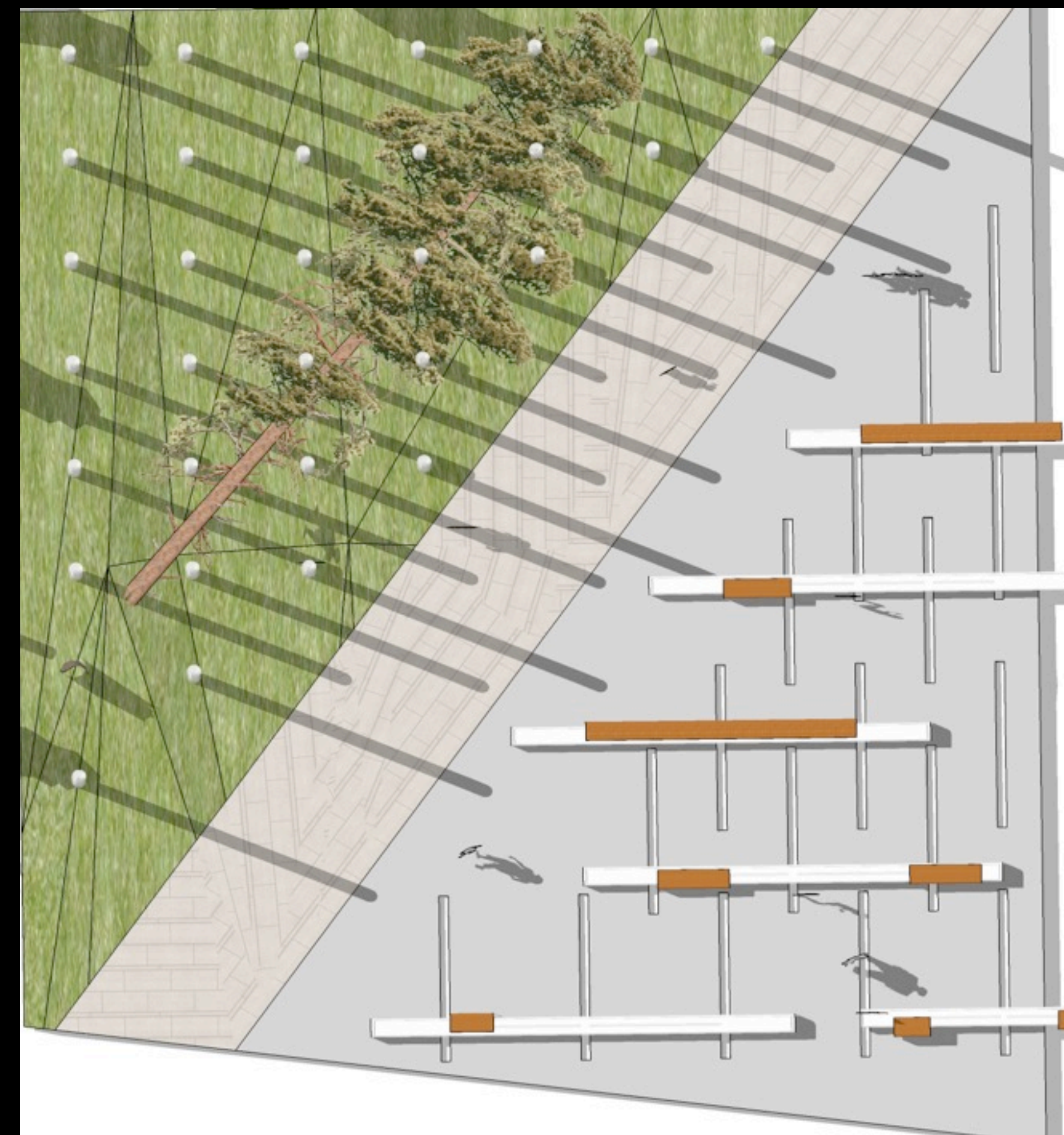
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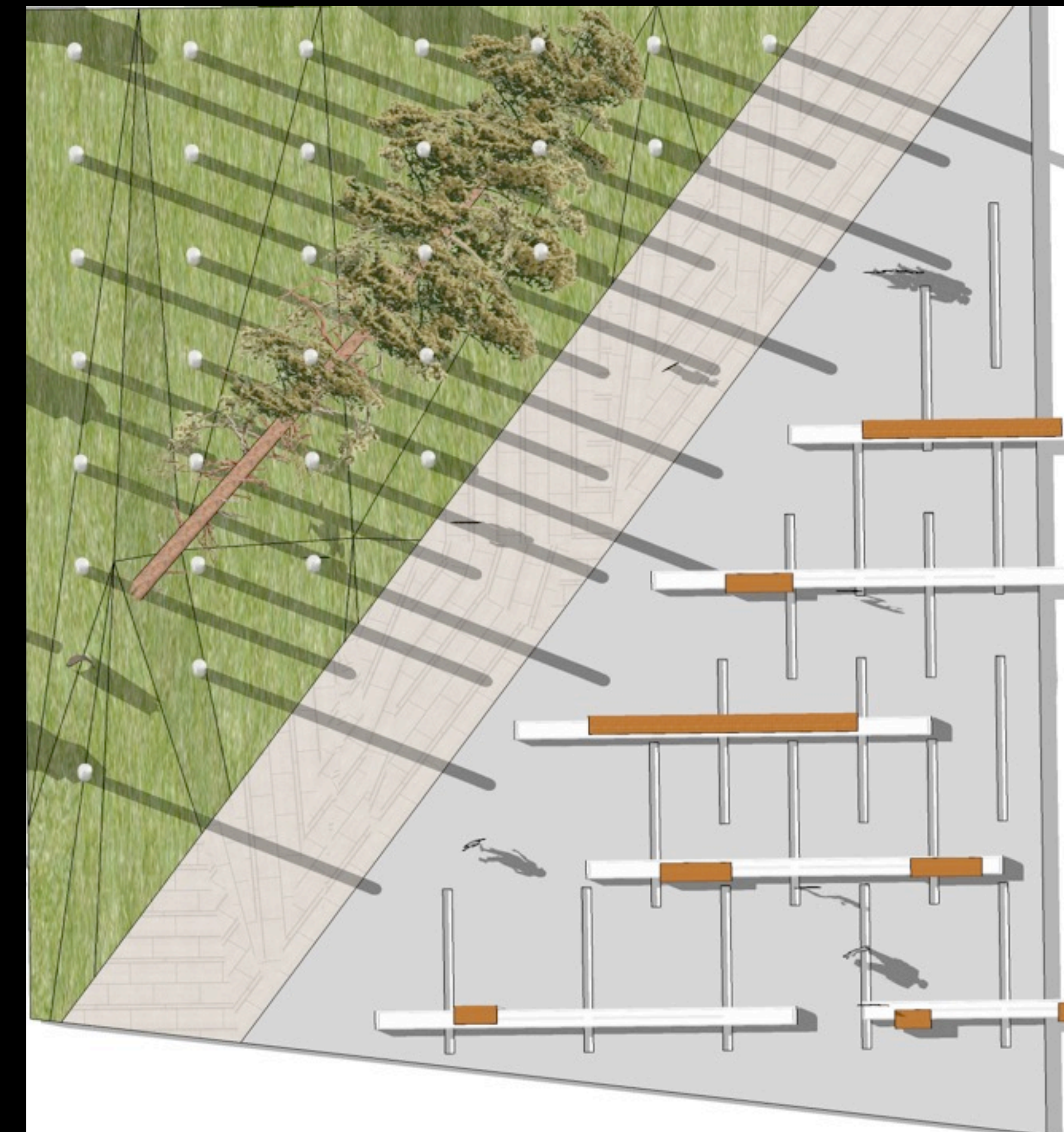
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design |də'zīn|

noun

1. • the art or action of conceiving of and producing a plan, drawing or concept: *good design can help the user better understand complicated information or ideas*







SUMMARY & CLOSING COMMENTS



Summary

The RTG integrated team represents a **single point of contact** for the combined strength and resources of ACS -Dragados, SNC-Lavalin, and EllisDon.

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THANK YOU – MERCI