

Broken Connections



Creating a Partnership of Mankind, Nature and Place Through Transportation
Justin Warner

Presentation Overview

- Discovery of a Thesis
- Passenger Trains in America
- Parameters of a Successful Design Solution
- Designing for the Future of the Passenger Rail
- Discussion





Discovery of a Thesis



West Publishing



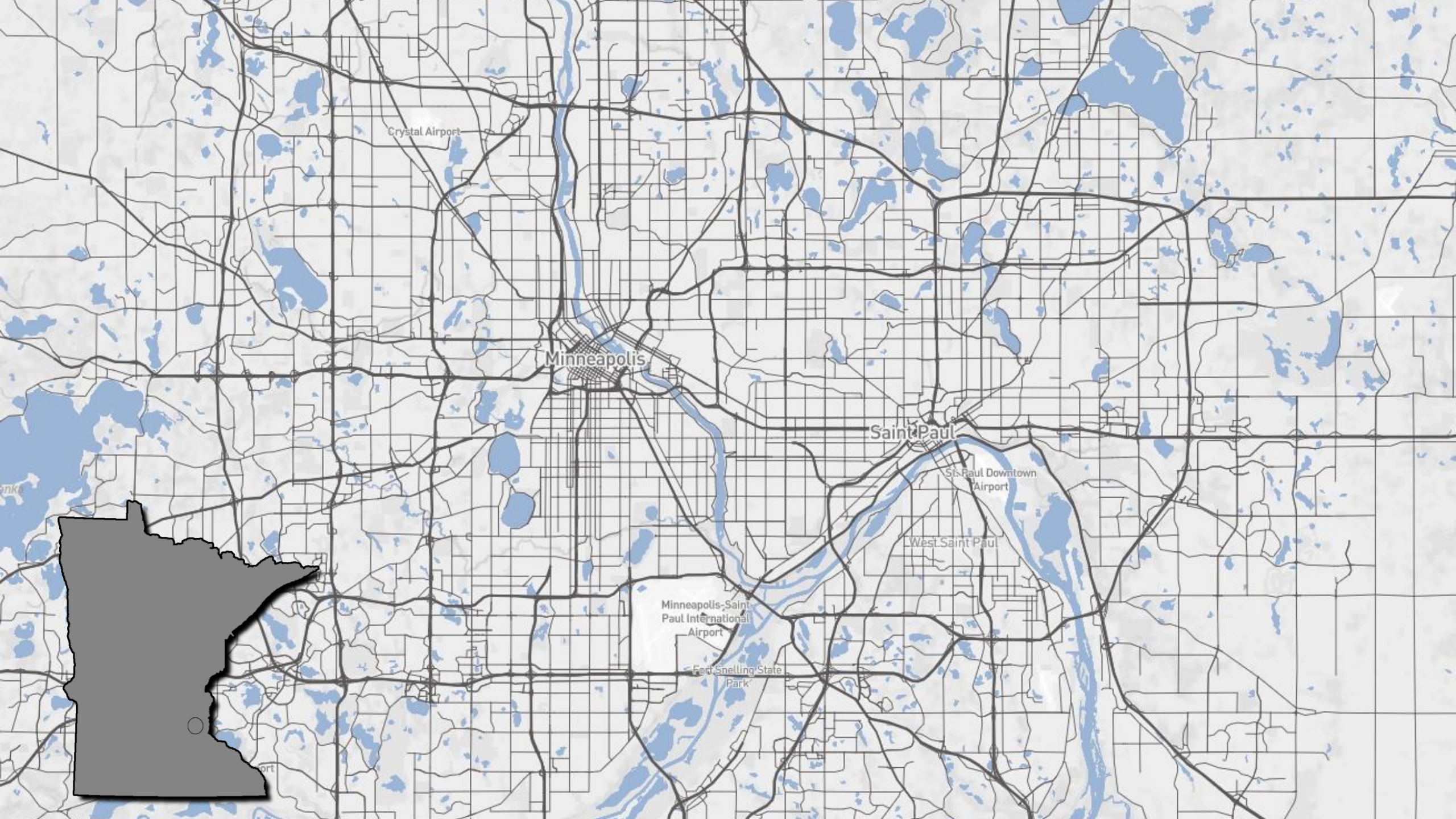
Ramsey County Jail



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SAFETY



Crystal Airport

Minneapolis

Saint Paul

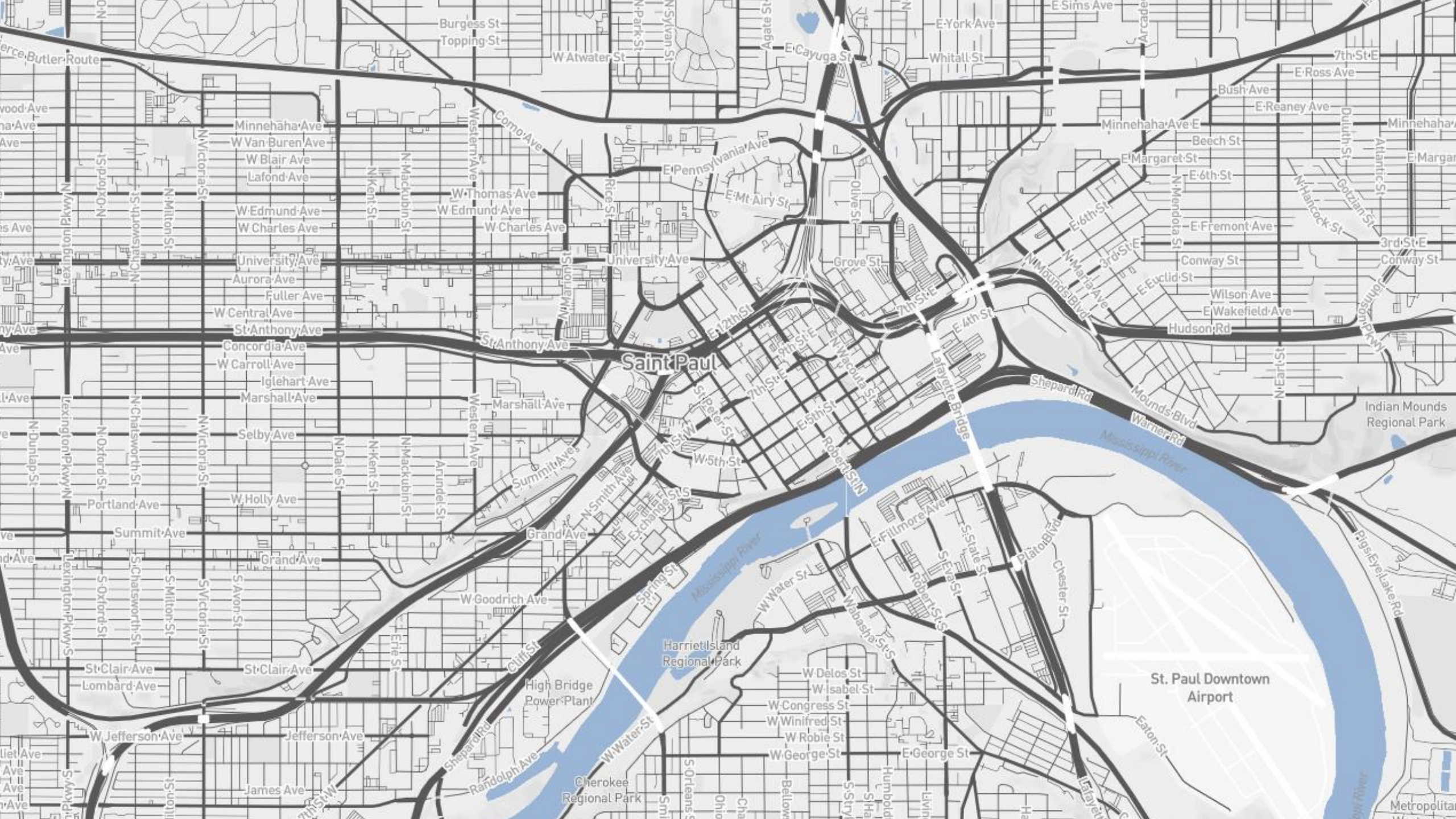
St. Paul Downtown
Airport

West Saint Paul

Minneapolis-Saint
Paul International
Airport

Ford Snelling State
Park





Saint Paul

St. Paul Downtown Airport

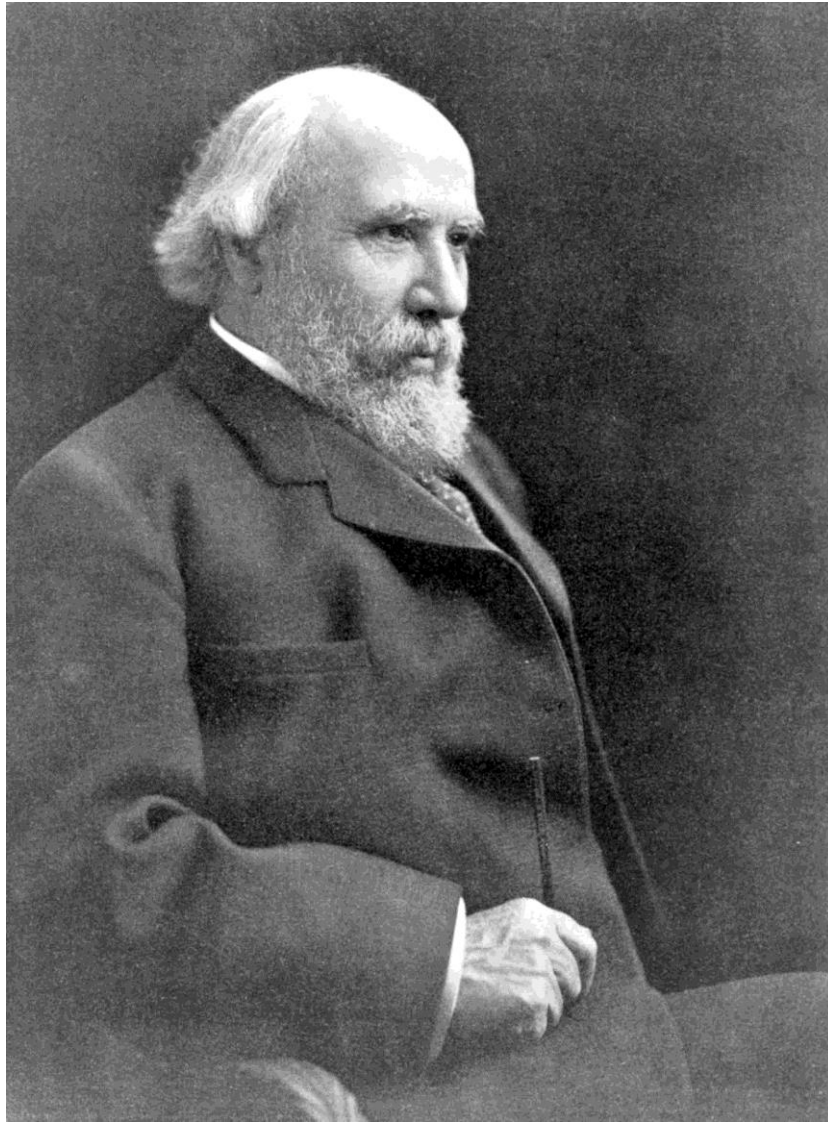
Harriet Island Regional Park

Cherokee Regional Park

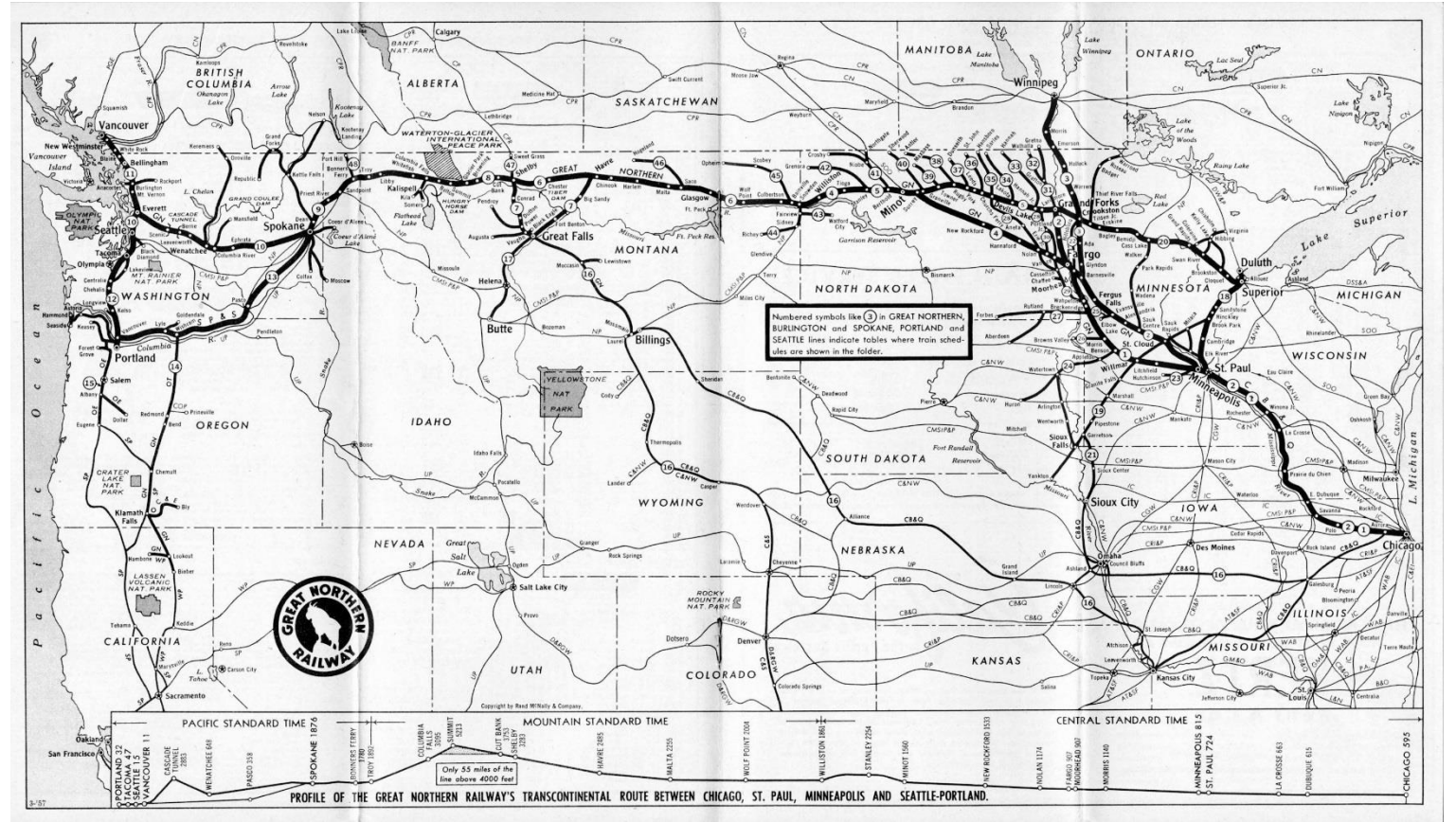
Indian Mounds Regional Park







James J. Hill (1838 – 1916)



The Great Northern Pacific Railway



Passenger Trains in America

The Decline of the Passenger Rail in America

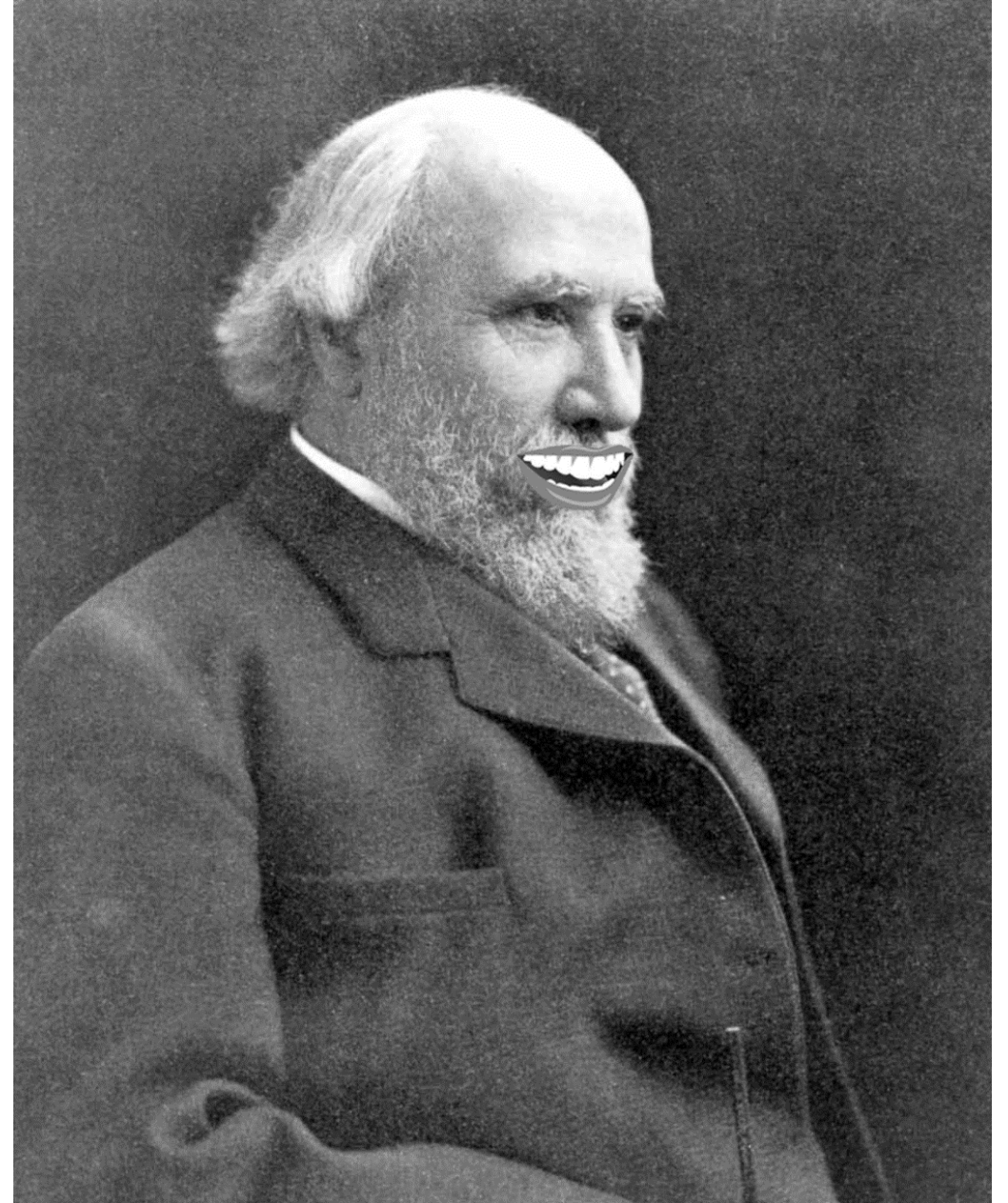
- Peak of the locomotive industry occurs in the late 1800's and early 1900's
- A brief revival sparked by war
- Automobile and the Interstate Highway system
- Airplanes
- Freight ownership of rail lines
- A lack of government spending
- A lack of comprehending the possibilities



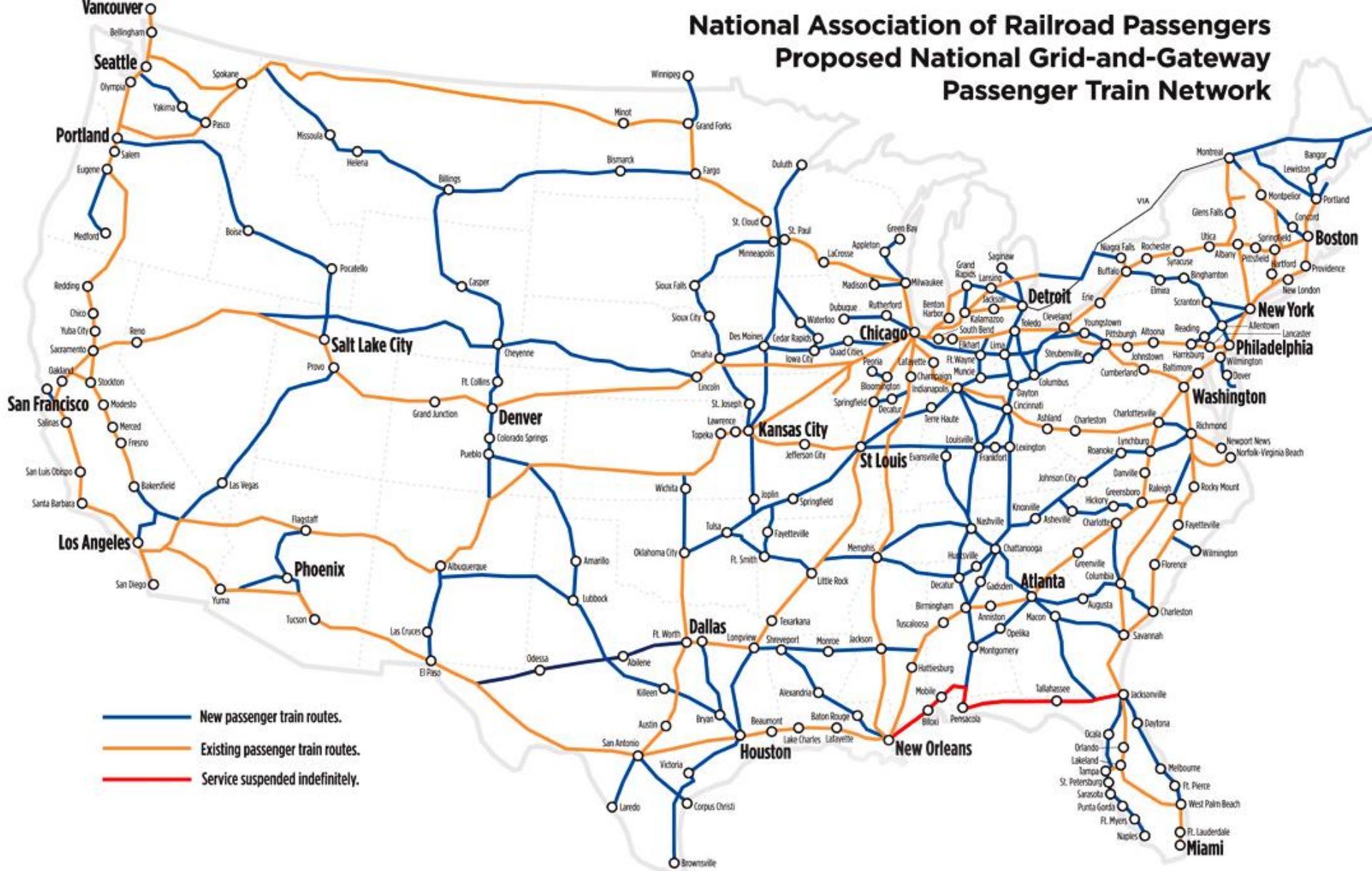
The history of the passenger rail has been bleak for many decades, but research points to a bright future.

A Bright Future for Passenger Trains in America

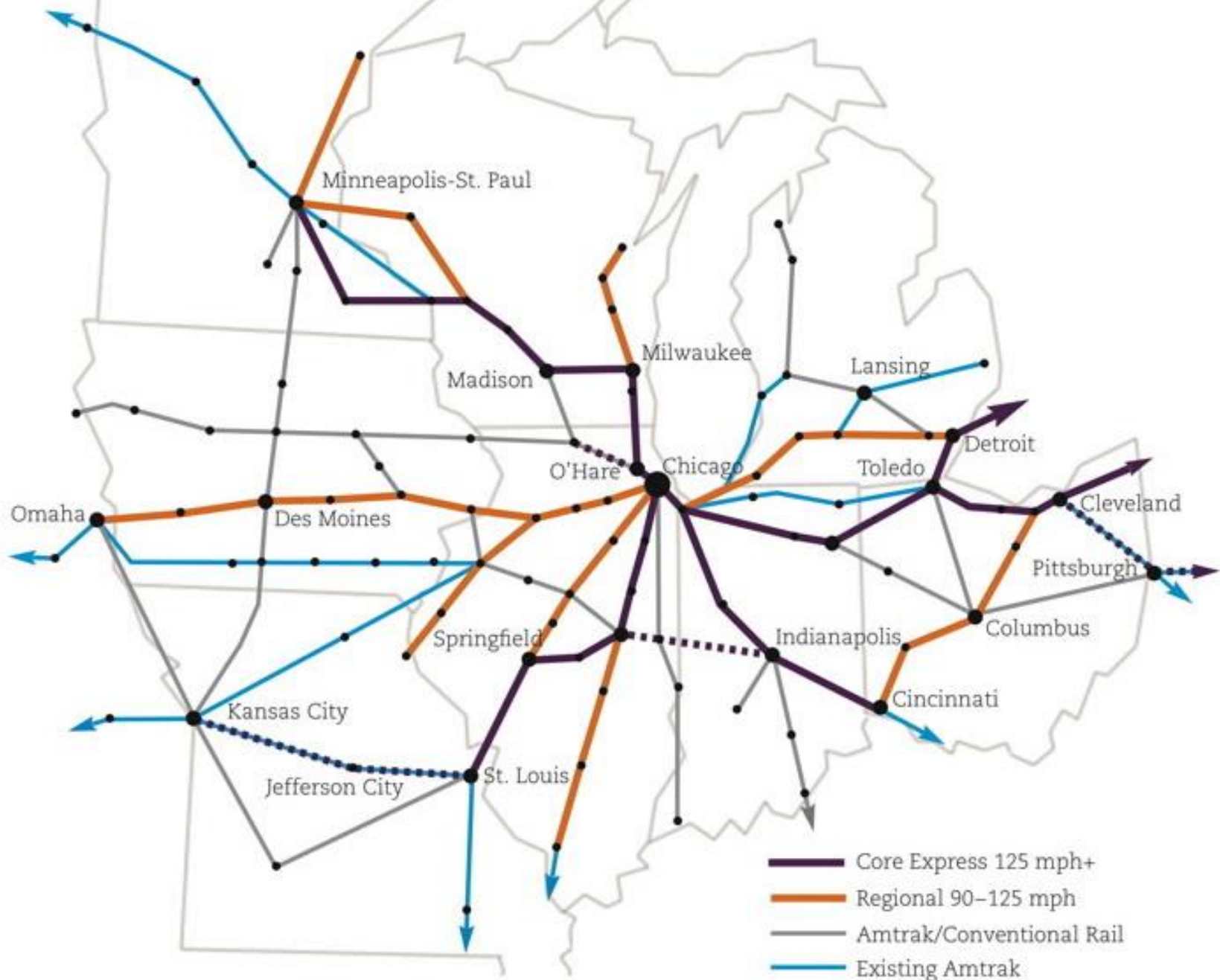
- The increased efforts of national organizations such as Amtrak, NARP, APTA
- Increased government spending
- Improved technology
- Economic Validity
- Ecological Validity
- The West Coast and North East Corridors







National Association of Railroad Passengers Proposed National Grid-and-Gateway Passenger Train Network



TRAINS: A TRAVEL CHOICE AMERICANS WANT



-  Core Express 125 mph+
-  Regional 90-125 mph
-  Amtrak/Conventional Rail
-  Existing Amtrak



Parameters of a Successful Design Solution

Goals of the Thesis Design

1. Establish the Importance in Reviving the Passenger Rail Industry and the affect this will have on America.
 - Competition between viable modes of transportation.
 - Economic and Ecological benefits
2. Re-establish a connection between the city and its natural surroundings.
 - Nature as an establishment of place
 - The effects of nature within the urban setting
3. Design a Station whose architectural qualities evoke the active, modern and technological nature of the future passenger rail.
 - A source of pride for the city of St. Paul
 - Re-creating the image of the passenger rail in America
4. Creating a source of activity and movement that will initiate a new wave of economic and social advances in St. Paul as well as the entire Midwest Region.
 - Breathe new life into an urban downtown that still suffers from the suburban movement



Liege – Guillemins Station, Belgium

LIEGE EXPO 14-18.BE
50M.



Antwerp Central Station, Belgium

← WINKELS →



Chicago Union Station, Illinois



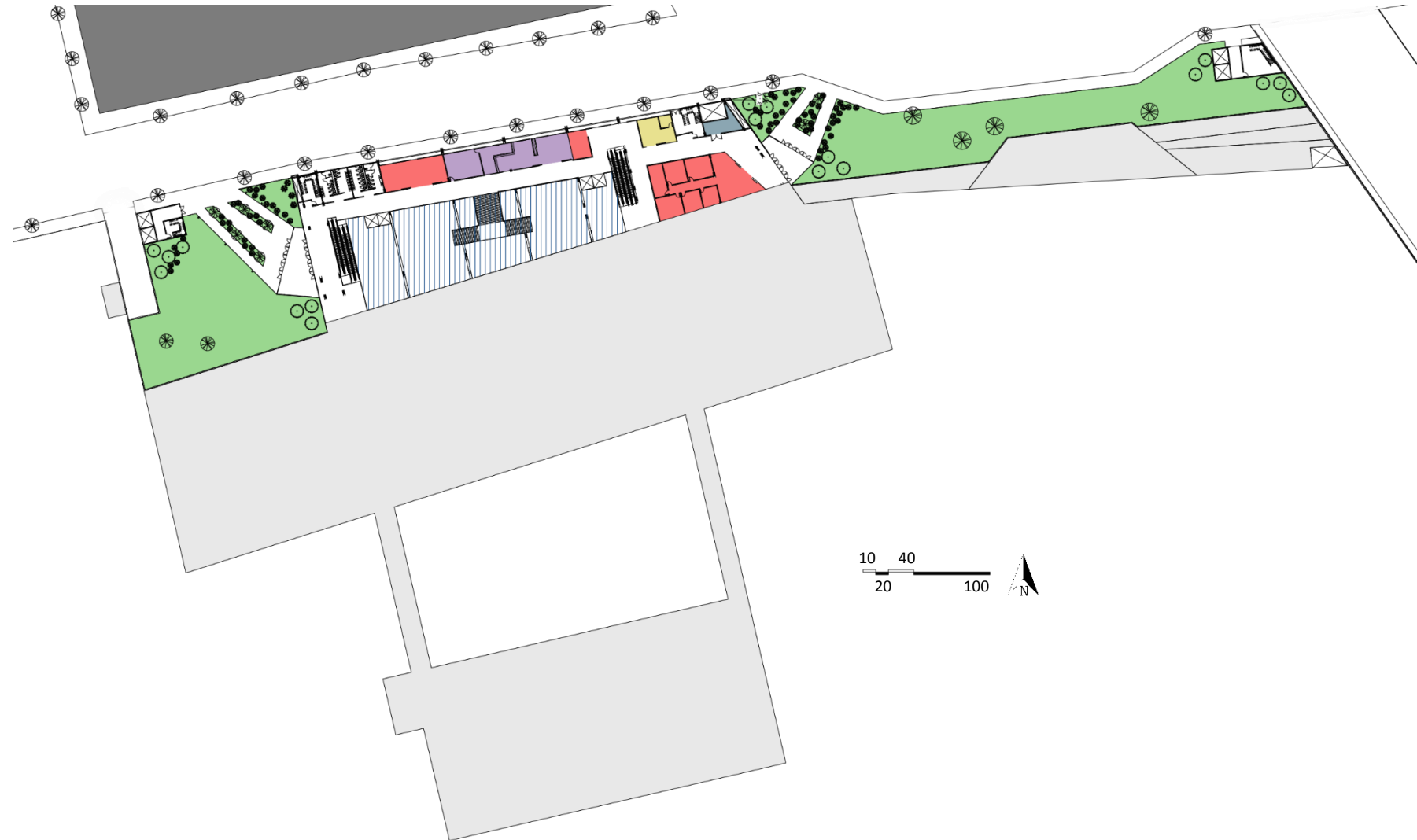
Designing for the Future of the Passenger Rail

Level Seven – Top of Bluff / Downtown

Major Program Elements

- Great Hall
- Traveler Services
- Ticketing
- Dining
- Green Roof
- Public Bluff Elevator

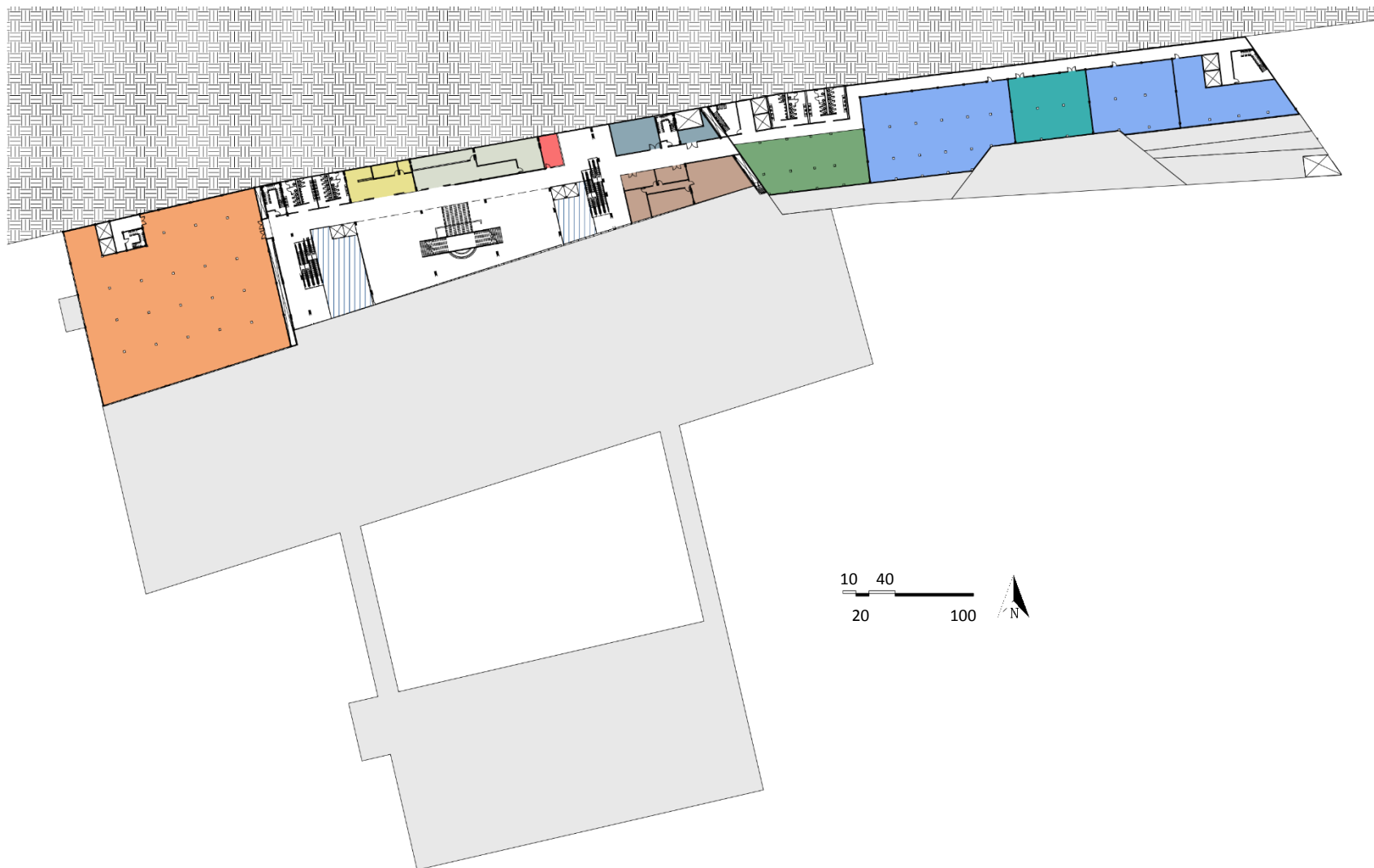
Platforms	Baggage Services
Retail	Passenger Services
Dining	Office Lounge
Event Space	Accessible Green Roof
Security	Storage
Office	Passenger Lounge
Parking	Open to Below
Ticketing	Mississippi River
Mechanical	Ground
Service	Existing Buildings



Level Six

Major Program Elements

- Great Hall
- Traveler Services
- Baggage Check
- Security
- Office Space
- Parking

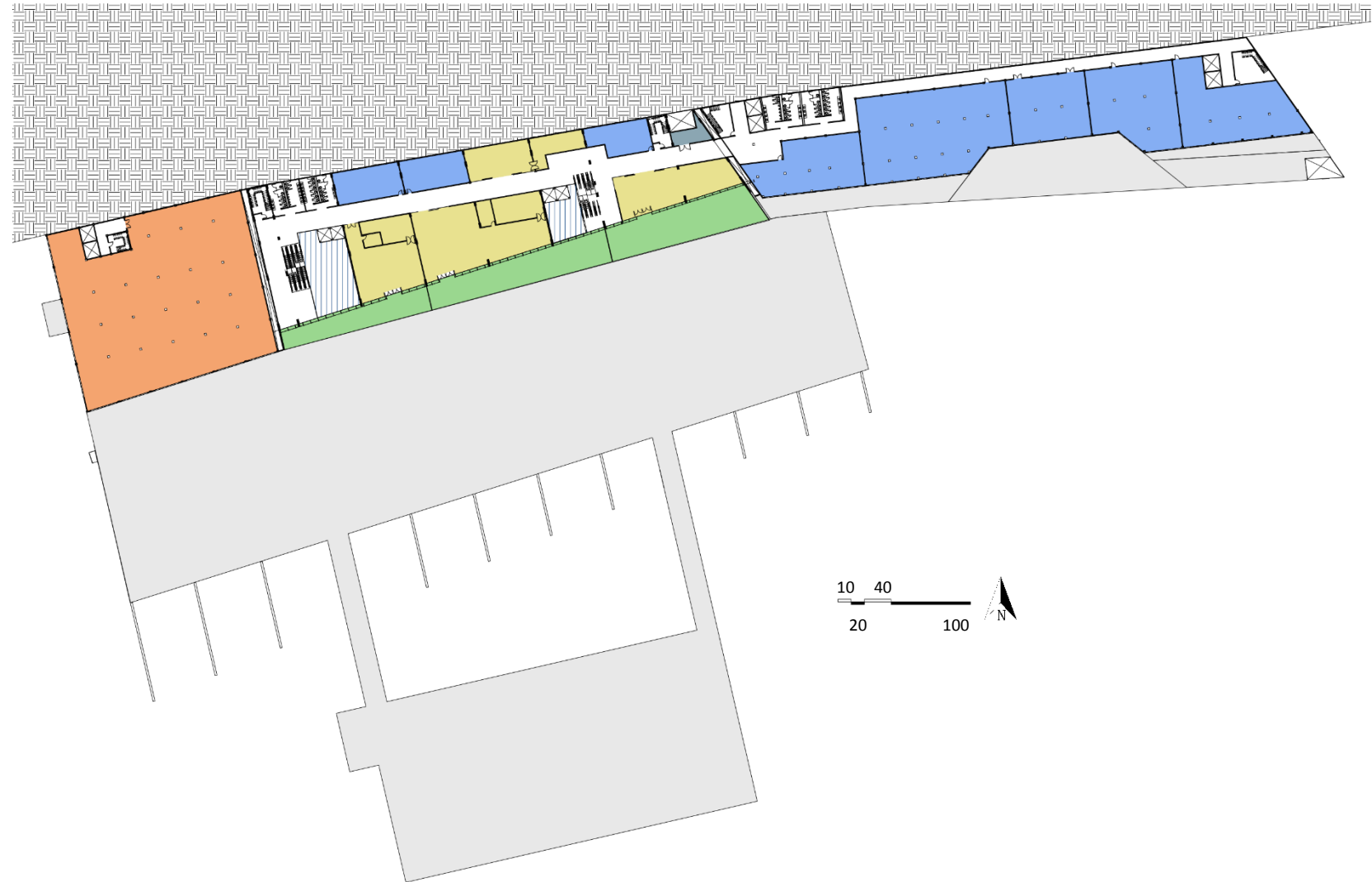


Platforms	Baggage Services
Retail	Passenger Services
Dining	Office Lounge
Event Space	Accessible Green Roof
Security	Storage
Office	Passenger Lounge
Parking	Open to Below
Ticketing	Mississippi River
Mechanical	Ground
Service	Existing Buildings

Level Five

Major Program Elements

- Dining
- Outdoor Dining
- Office Space
- Parking



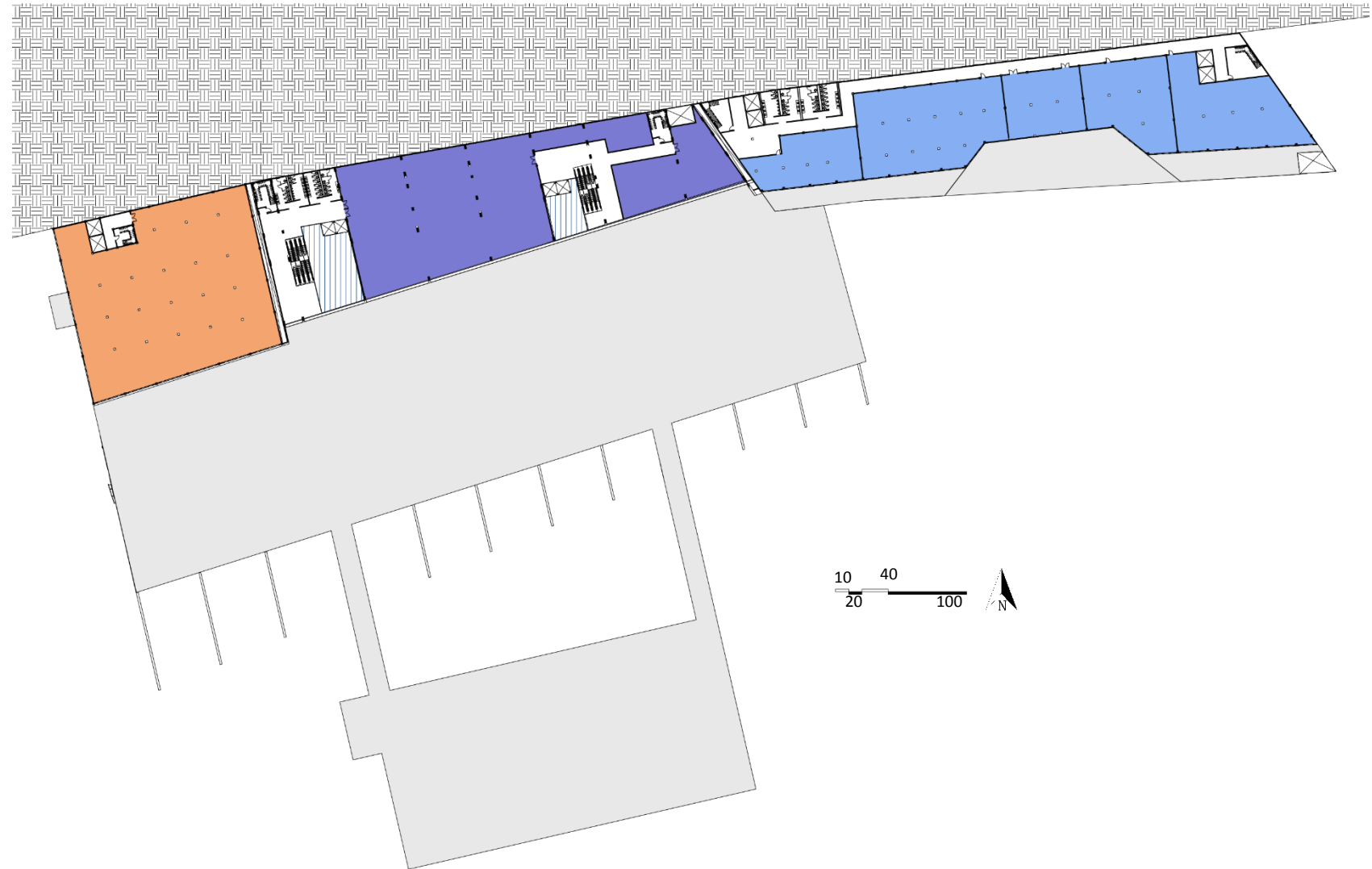
■ Platforms	■ Baggage Services
■ Retail	■ Passenger Services
■ Dining	■ Office Lounge
■ Event Space	■ Accessible Green Roof
■ Security	■ Storage
■ Office	■ Passenger Lounge
■ Parking	■ Open to Below
■ Ticketing	■ Mississippi River
■ Mechanical	■ Ground
■ Service	■ Existing Buildings

Level Four

Major Program Elements

- Office Space
- Mechanical
- Parking

Platforms	Baggage Services
Retail	Passenger Services
Dining	Office Lounge
Event Space	Accessible Green Roof
Security	Storage
Office	Passenger Lounge
Parking	Open to Below
Ticketing	Mississippi River
Mechanical	Ground
Service	Existing Buildings

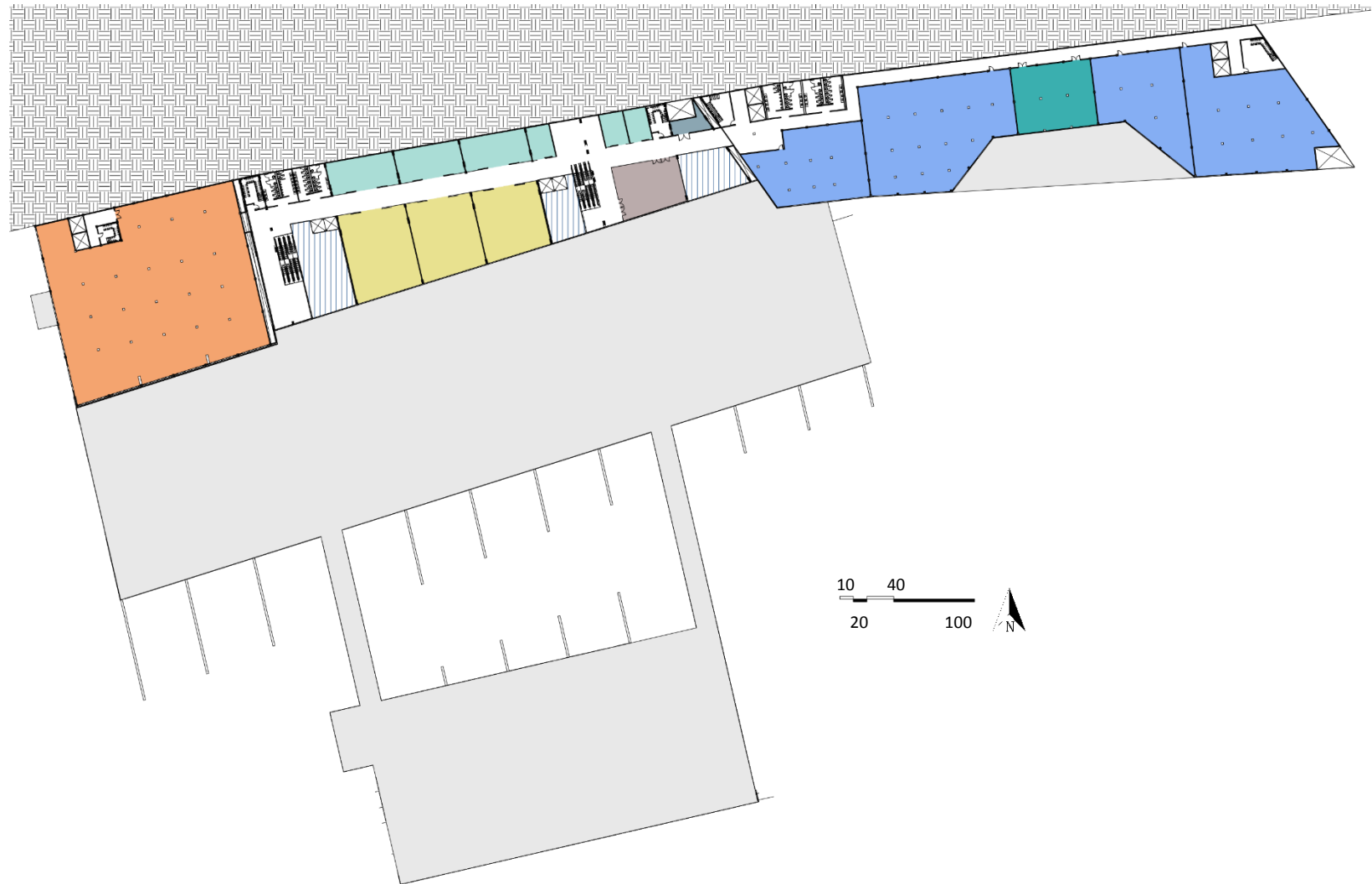


Level Three

Major Program Elements

- Retail
- Dining
- Passenger Lounge
- Office Space
- Parking

Platforms	Baggage Services
Retail	Passenger Services
Dining	Office Lounge
Event Space	Accessible Green Roof
Security	Storage
Office	Passenger Lounge
Parking	Open to Below
Ticketing	Mississippi River
Mechanical	Ground
Service	Existing Buildings

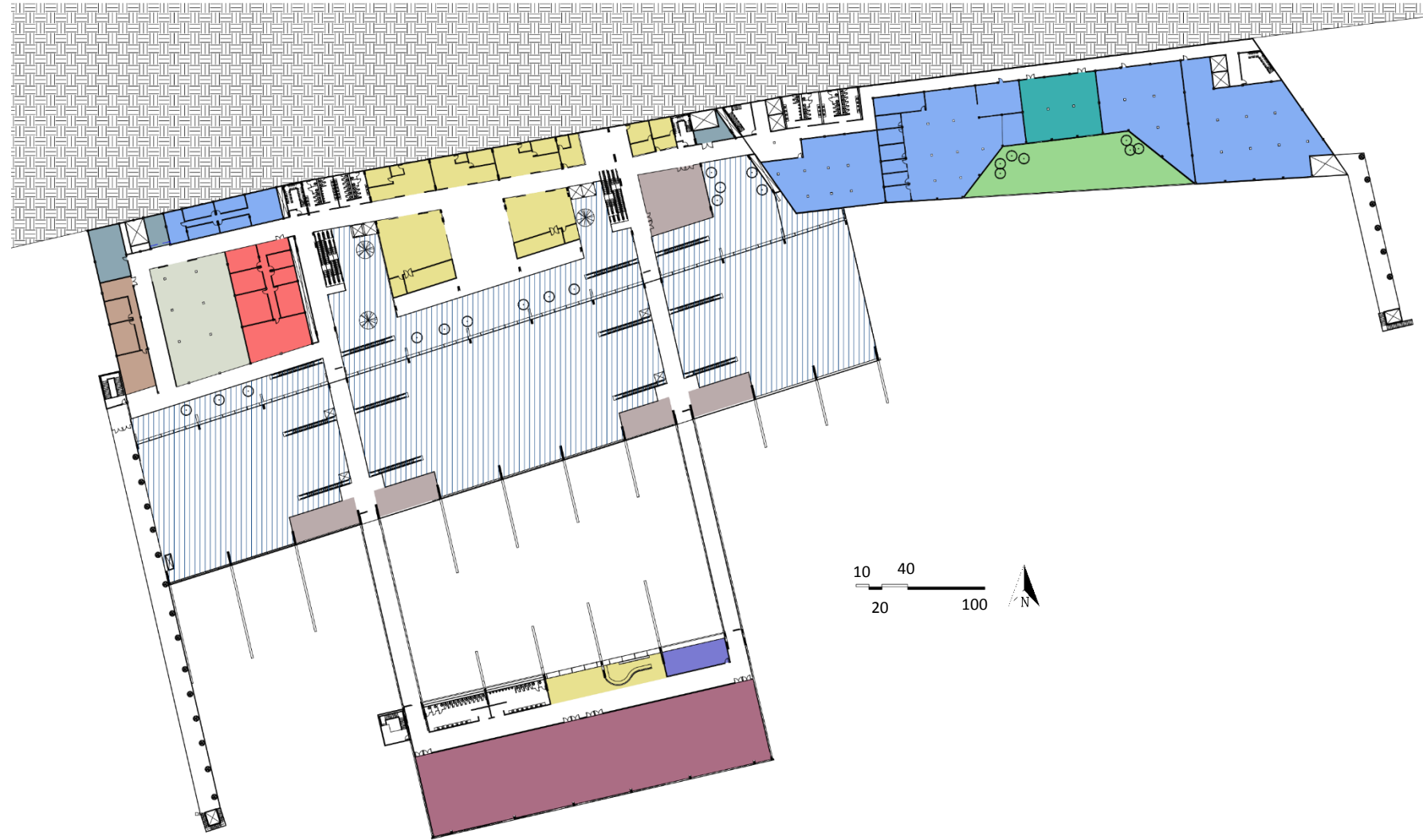


Level Two

Major Program Elements

- Dining
- Retail
- Passenger Lounge
- Traveler Services
- Baggage Services
- Security
- Community Event Space
- Office Space
- Accessible Green Roof
- Public Bluff Elevator
- Pedestrian Bridges
- Mechanical

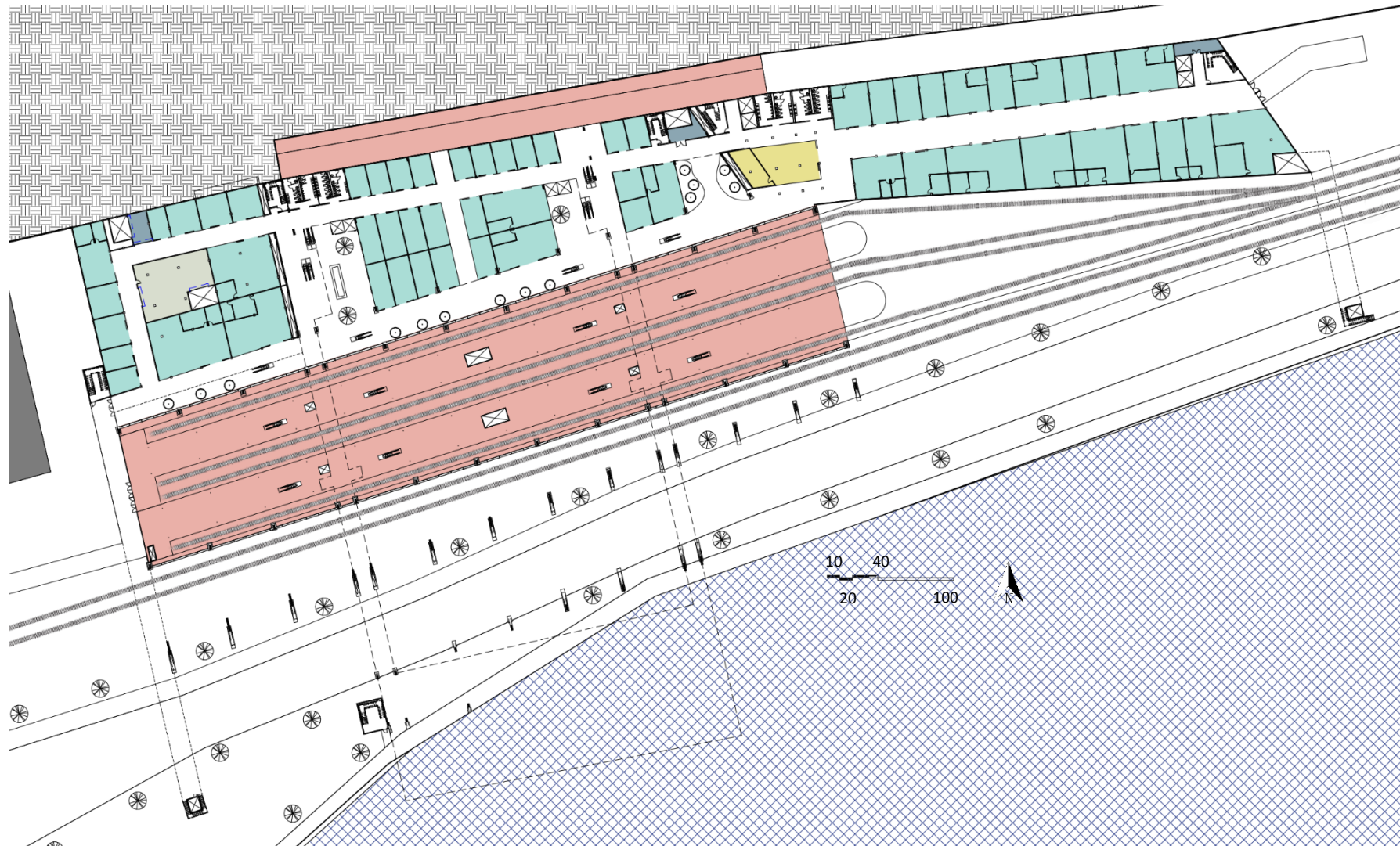
Platforms	Baggage Services
Retail	Passenger Services
Dining	Office Lounge
Event Space	Accessible Green Roof
Security	Storage
Office	Passenger Lounge
Parking	Open to Below
Ticketing	Mississippi River
Mechanical	Ground
Service	Existing Buildings



Level One – Bottom of Bluff / Riverside

Major Program Elements

- Interregional Platforms
- Local Light Rail Platform
- Retail
- Dining
- Baggage Services



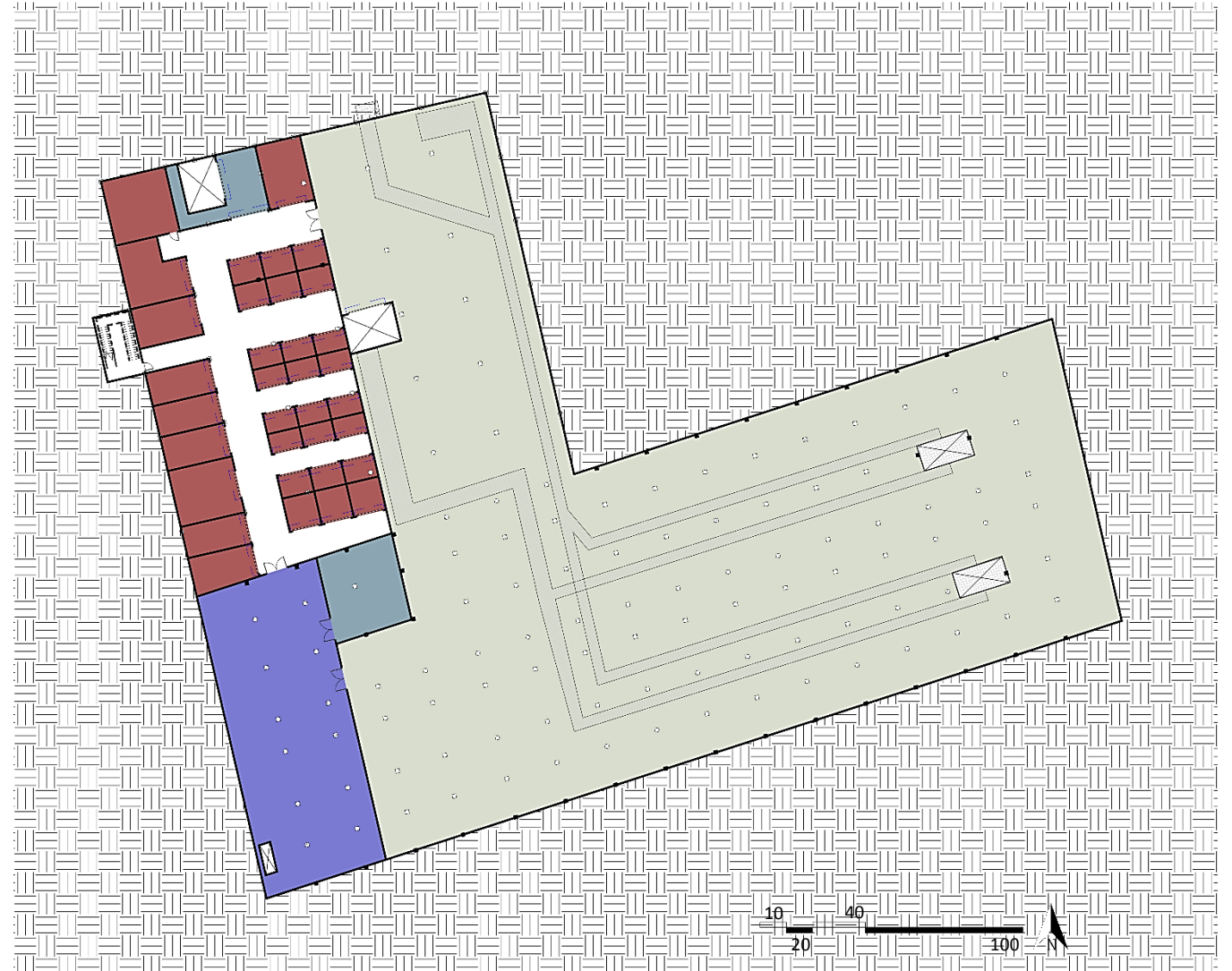
Platforms	Baggage Services
Retail	Passenger Services
Dining	Office Lounge
Event Space	Accessible Green Roof
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Ticketing	Mississippi River
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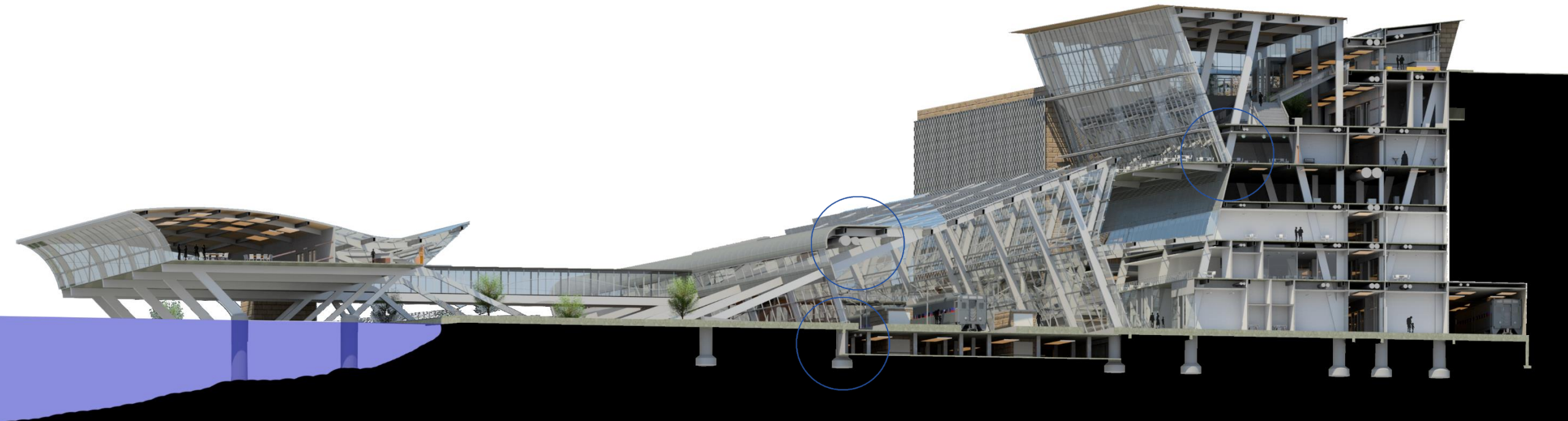
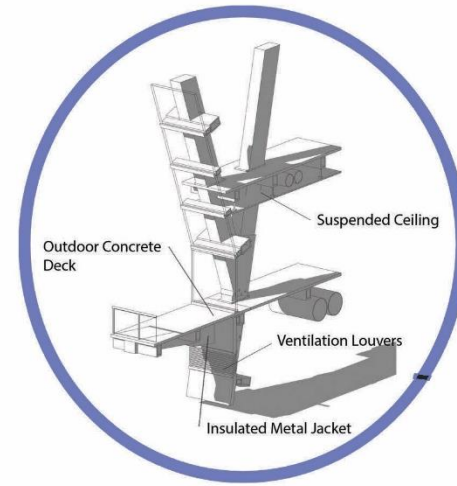
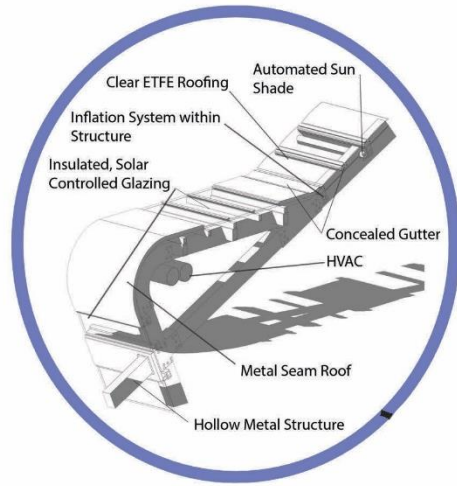
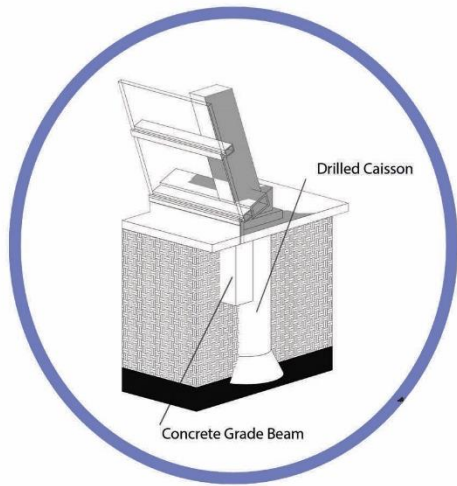
Basement

Major Program Elements

- Retail Storage
- Mechanical
- Baggage Service System

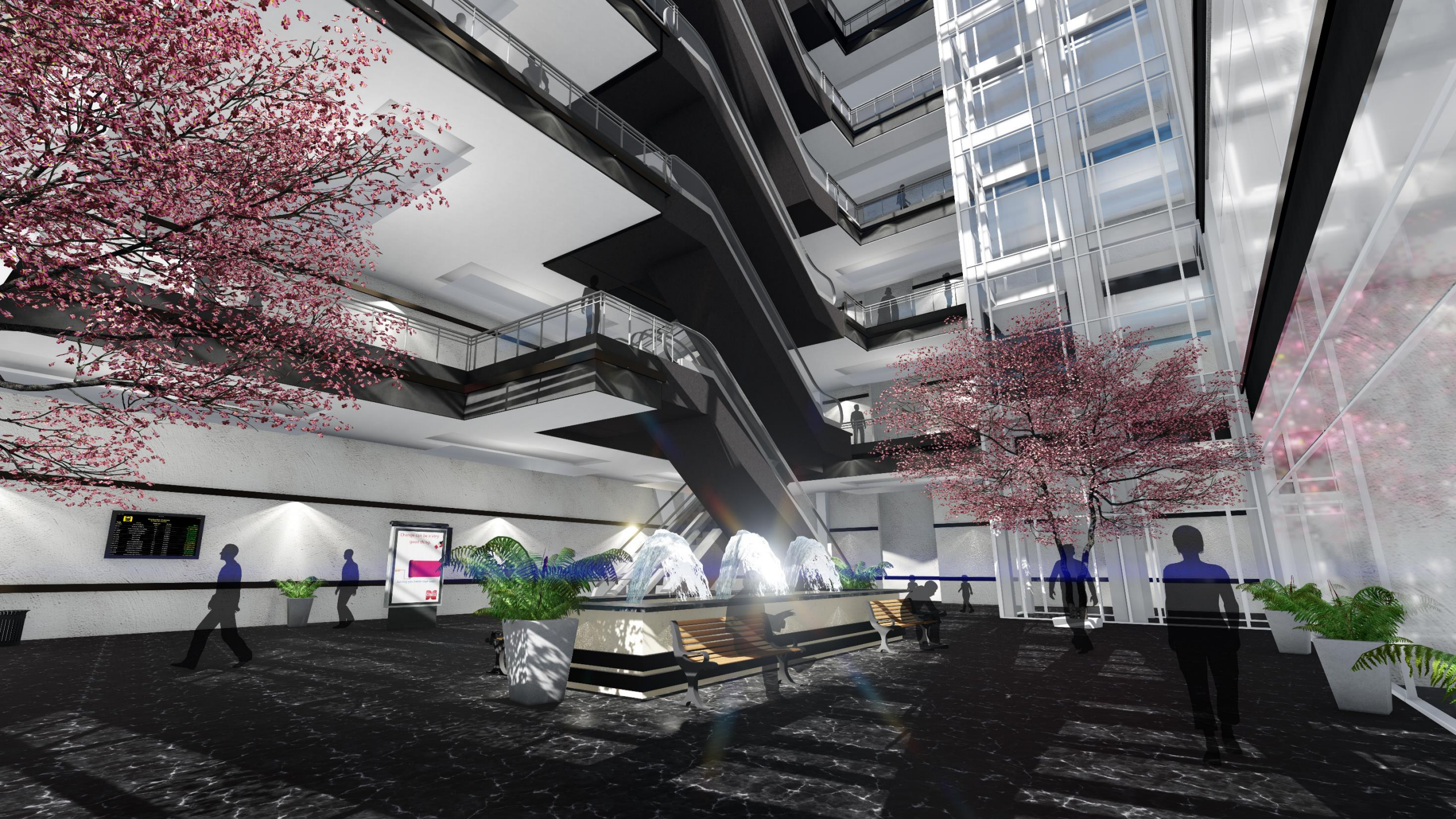
Platforms	Baggage Services
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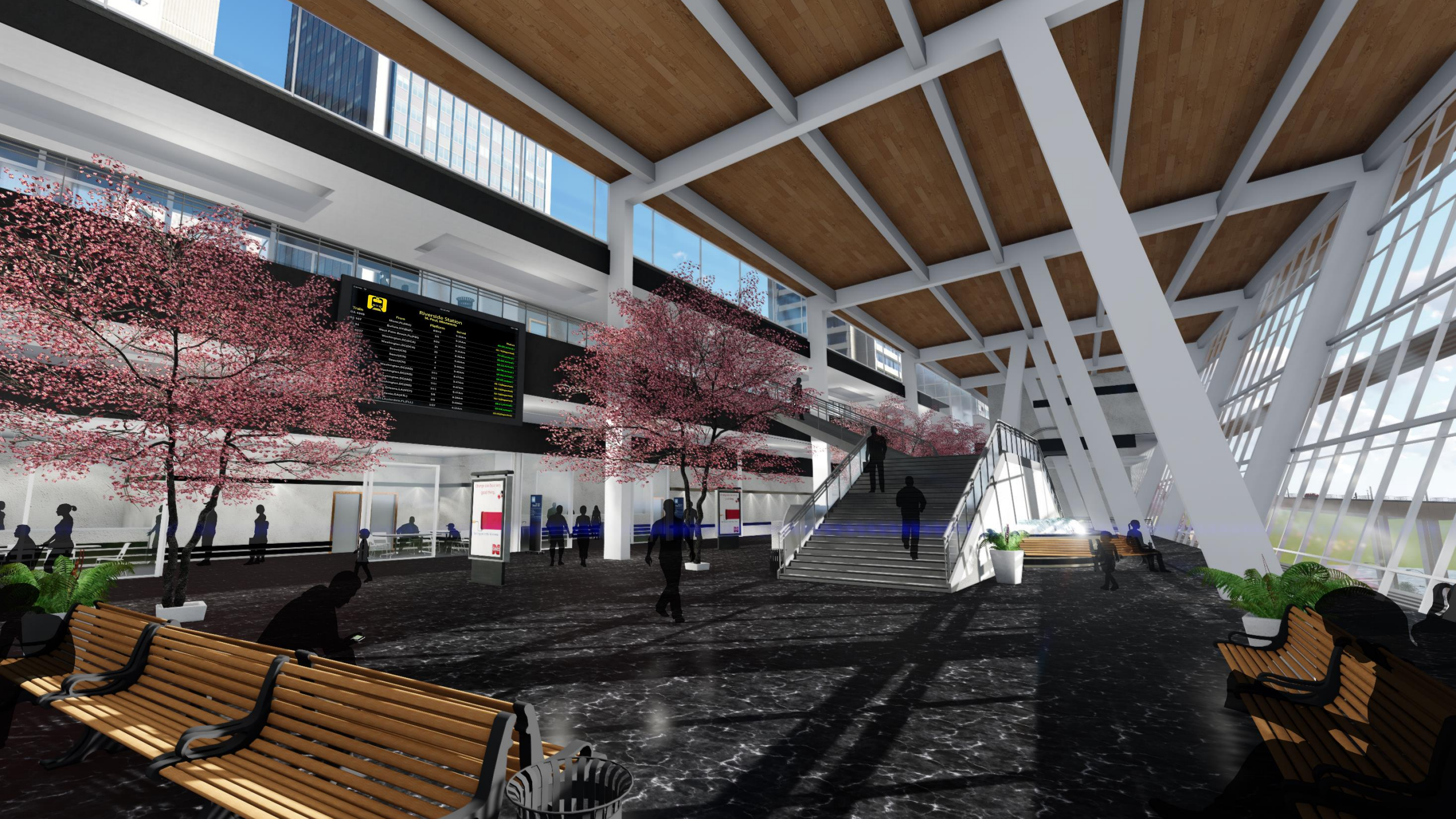




Active Space







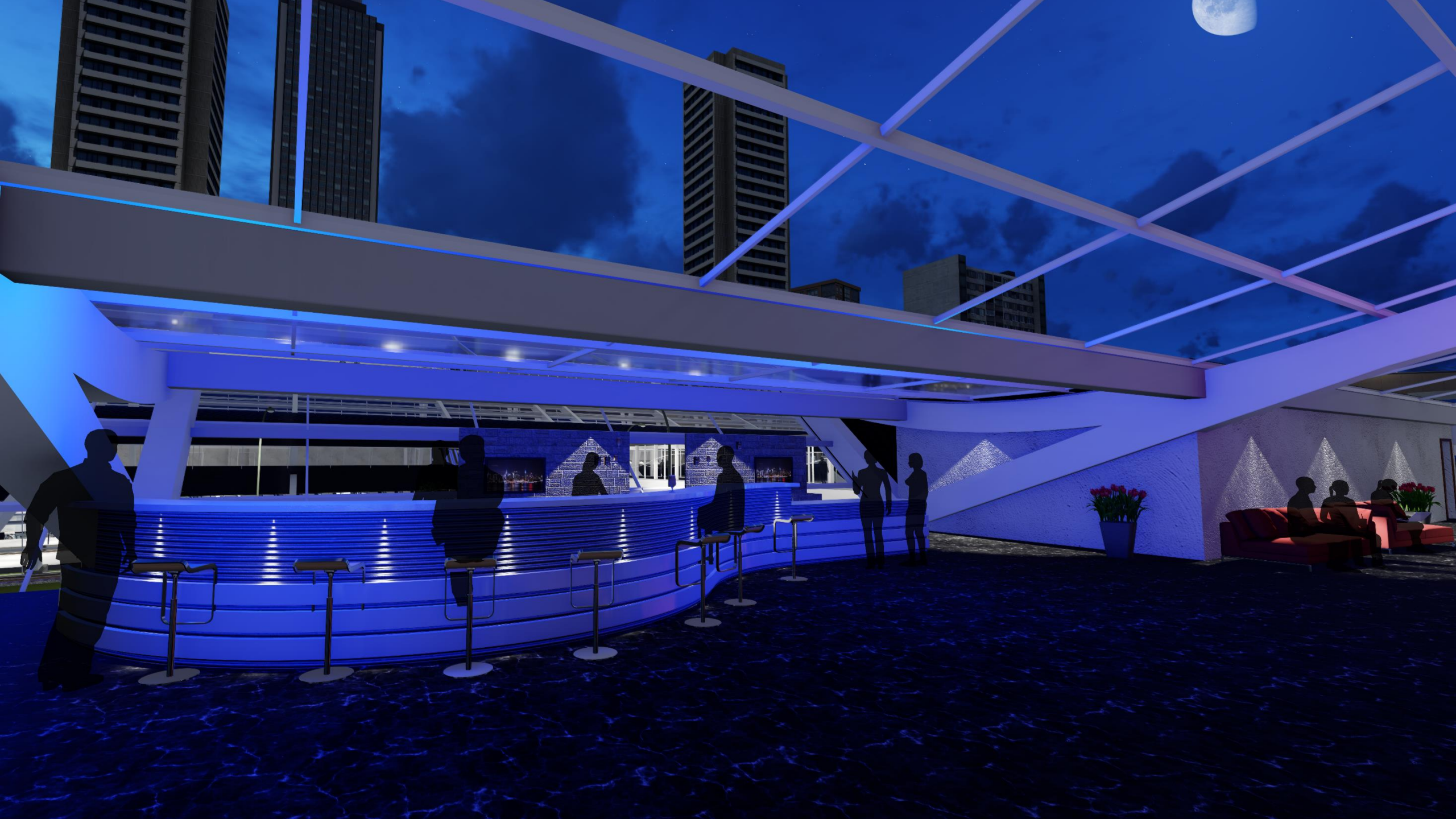
Train		Riverside Station	
Platform	Train	Platform	Train
1	Northbound	1	Northbound
2	Southbound	2	Southbound
3	Northbound	3	Southbound
4	Southbound	4	Northbound
5	Northbound	5	Southbound
6	Southbound	6	Northbound
7	Northbound	7	Southbound
8	Southbound	8	Northbound
9	Northbound	9	Southbound
10	Southbound	10	Northbound
11	Northbound	11	Southbound
12	Southbound	12	Northbound
13	Northbound	13	Southbound
14	Southbound	14	Northbound
15	Northbound	15	Southbound
16	Southbound	16	Northbound
17	Northbound	17	Southbound
18	Southbound	18	Northbound
19	Northbound	19	Southbound
20	Southbound	20	Northbound
21	Northbound	21	Southbound
22	Southbound	22	Northbound
23	Northbound	23	Southbound
24	Southbound	24	Northbound
25	Northbound	25	Southbound
26	Southbound	26	Northbound
27	Northbound	27	Southbound
28	Southbound	28	Northbound
29	Northbound	29	Southbound
30	Southbound	30	Northbound

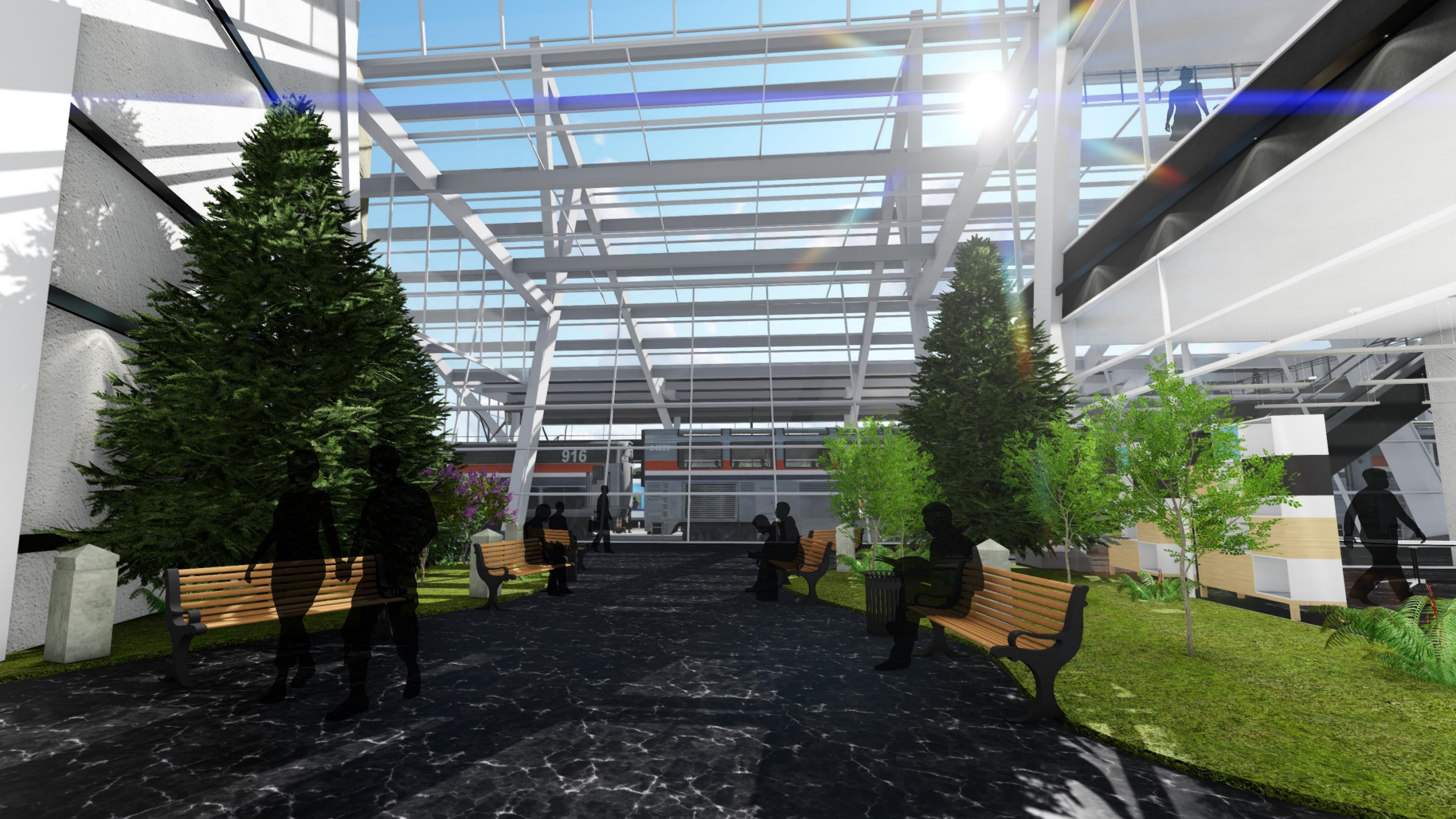
Station Information
Riverside Station
Platform 1-30



Nature in the City







916





