



# A SUSTAINABLE MODEL FOR THE WORLD

*Green - U  
eco - universitas*

**Citywide Goals: Connecting open space, neighborhoods sharing population growth equally**

**Study Area Concept: 100 Years – 100% Green Footprint**

From 2000 feet above, team members wanted to see the U-district as an interconnected patchwork of pervious surfaces through increased open spaces, green roofs, green walls, and green streets. The overall goal of the team's actions was to make the neighborhood a sustainable model for the world. With its ties to the University of Washington, this watershed is particularly suited towards experimentation with spaces and technologies that can help achieve such a goal. Values expressed by team members introduced a goal furthering greater social health and cohesiveness within the neighborhood. The team envisioned a U-district that had full walking capability supported by public transportation. Different cultures and generations are brought together to nourish, nurture and enrich each others lives. People can grow up, work and retire in the neighborhood. Lifelong learning (and teaching) is encouraged through an education system providing a teaching venue for retired professors and learning venue for people of all ages. Childcare and elderly amenities, as well as health care and recreational facilities are brought together to minimize infrastructure and maximize community interaction. The team hoped these amenities (especially healthcare) would be publicly provided and within walking distance of all residents.

While many of these values could be achieved through policy interventions, the main products of the charrette focused on planning and design interventions for open space and infrastructure. The big moves for our district fall under the categories of increasing open space patches, creating a transportation network that is safe for people and the environment and using spaces and technologies to promote a self sustaining community.

**Open space within the neighborhood would be increased through:**

- Day-lighting the historic Ravenna stream and creating vegetated open spaces through this riparian corridor from Green Lake to Union Bay.
- Allowing public access along the entire waterfront
- Providing adequate public and public/private spaces in close proximity to all residents

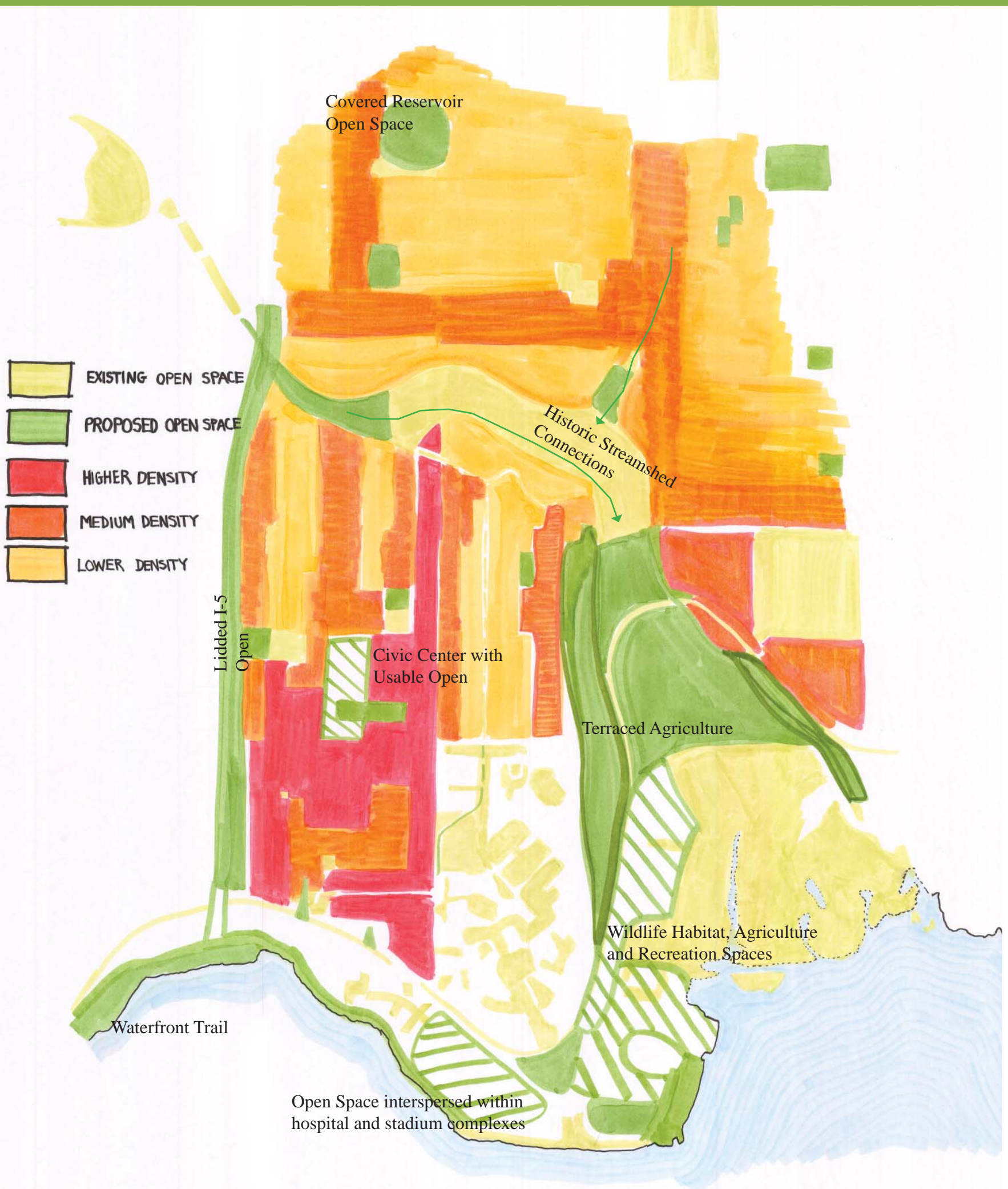
**A Safe and Healthy Transportation Network would include:**

- Separation of vehicles (cars/buses/transit) from pedestrian and bicyclists in corridors used for cross-town travel. The team proposed lidding I-5 and Montlake Avenue and tunneling 45th Street for this purpose
- Making all streets green streets to aid in storm water retention

**A largely self sustaining community could be achieved through:**

- Urban agriculture, with large scale applications terraced into the steep eastern slopes of campus and Union Bay and smaller gardens nearby residents through P-patches, common gardens and roof gardens.
- Sustainable energy harvesting with solar, wind and micro-hydro applications

# OPEN SPACE & POPULATION DENSITY



## Increasing Usable Open Space:

- Day-lighting streams and expanding them with usable open space from Green Lake to the Union Bay Natural Area
- Creating smaller public/private open spaces every two blocks within residential communities, typologies could include: common backyards/p-patches/adventure playgrounds, walk-throughs, open space connected with other community amenities (libraries, recreation centers, etc)
- Reclaiming the waterfront for public use, including access to the water's edge even where there are private marinas/industries

## Making Corridors Safe for Pedestrians and Bikes (and increasing Open Space)

- Lidding I-5 and Montlake Avenue and tunneling 45th Street to create safer spaces for pedestrians/bikes, would increase usable open space while still allowing for cross-town traffic (whether it be car/bus/other transit)

## Using Open Spaces and Technologies to create a Self Sustaining District

- Integrating large scale agriculture into the steep slopes and other hazardous areas near the Union Bay Natural Area.
- Integrating alternative energy harvesting including solar, wind (from transit in I-5), and micro-hydro
- Green streets and green roofs everywhere to manage the district's storm water

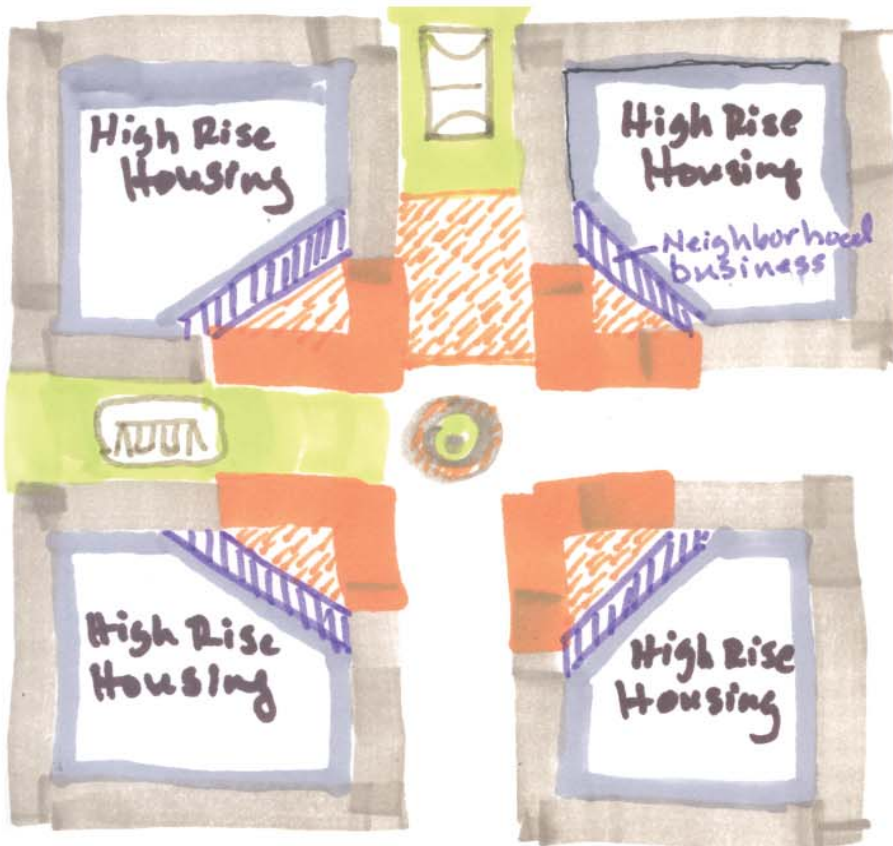


# OPEN SPACE TYPOLOGIES

## Higher Density



**OFF SET**  
**Large**  
**Buildings**  
 green and  
 paved social  
 areas



**STREET END**  
**PARK - Active use**  
 (Street closure)  
 (Traffic calming)

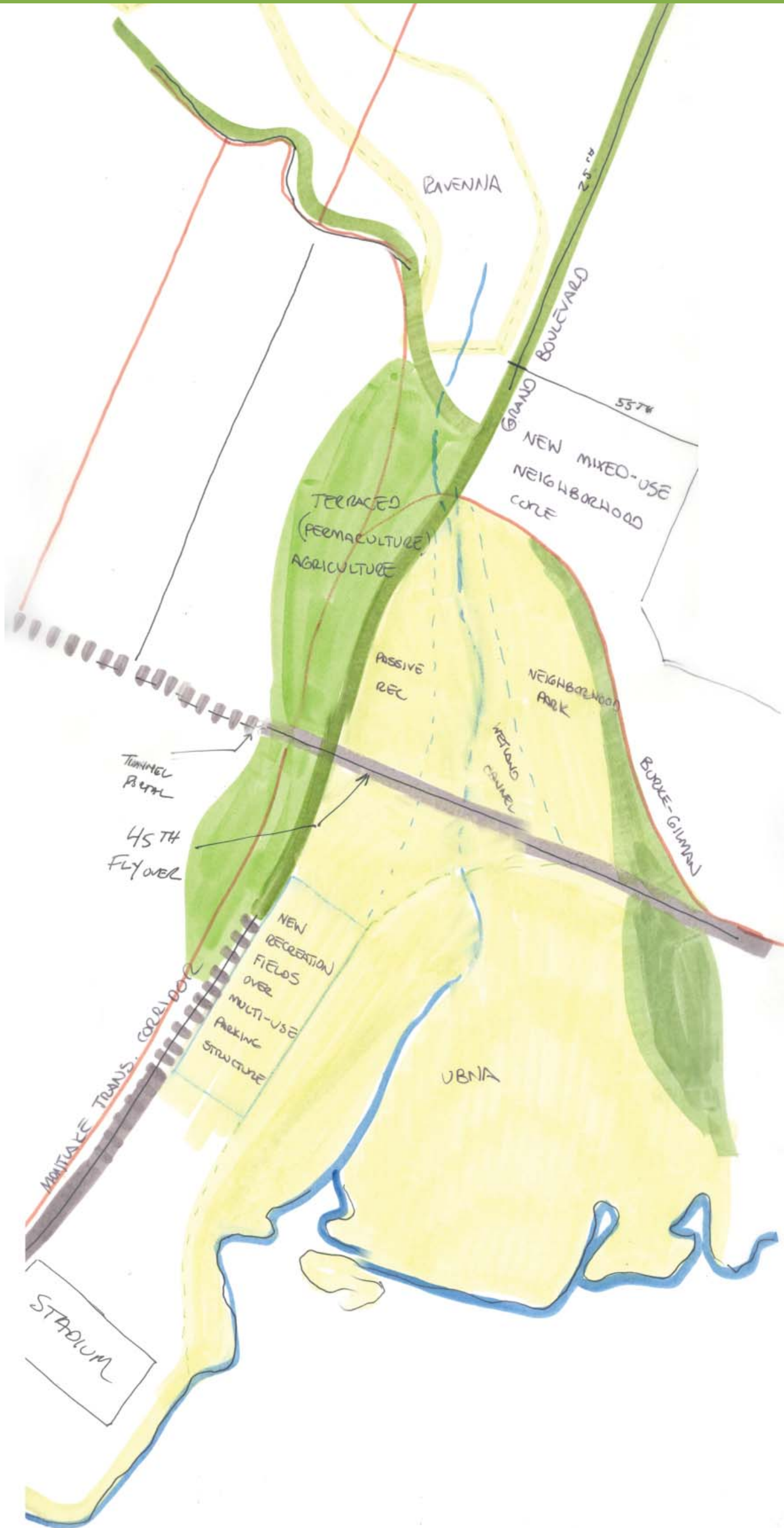
**Intersection =**  
**COMMUNITY**  
**SQUARE**  
 Neighborhood  
 business -  
 social  
 connectivity



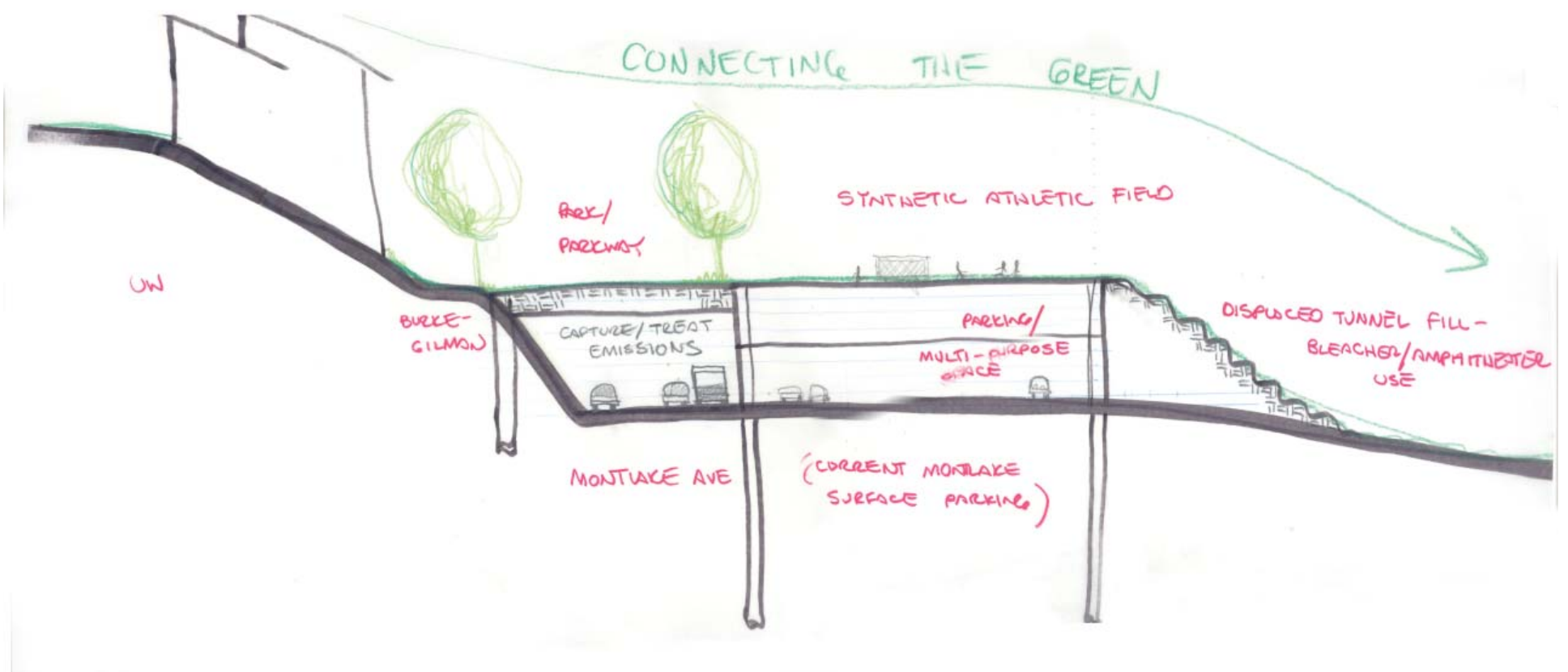
High-rise  
 (+ 5 stories)  
 with stoops  
 onto street



# HISTORIC STREAMSHED OPEN SPACE



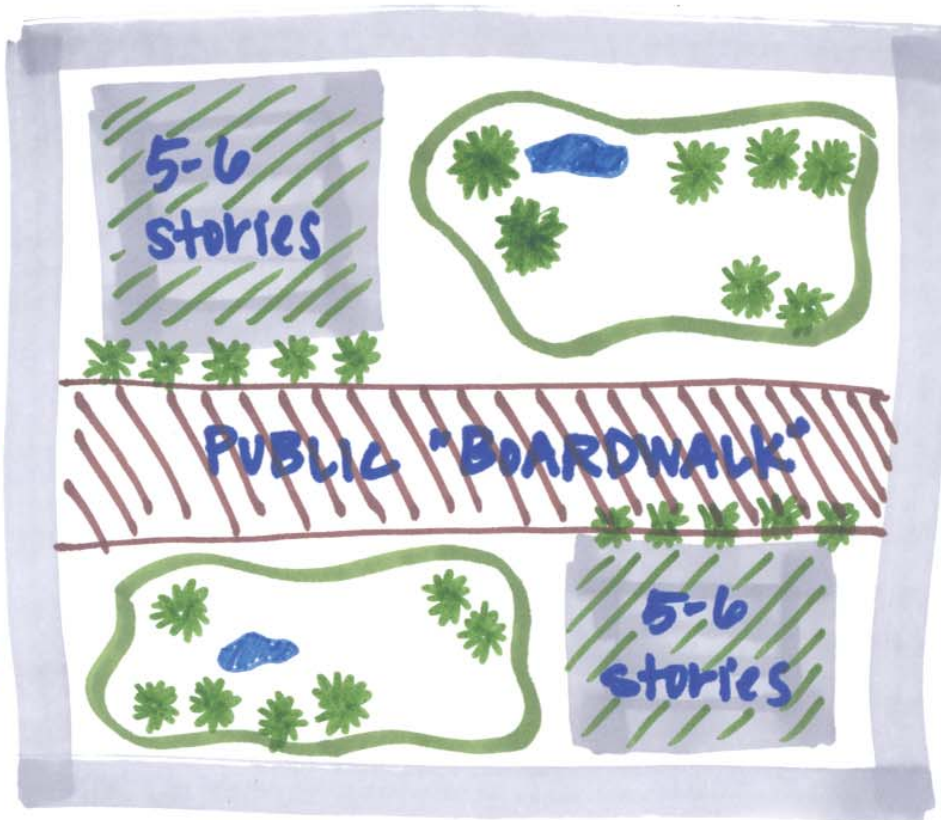
# UNION BAY OPEN SPACE TYPOLOGIES





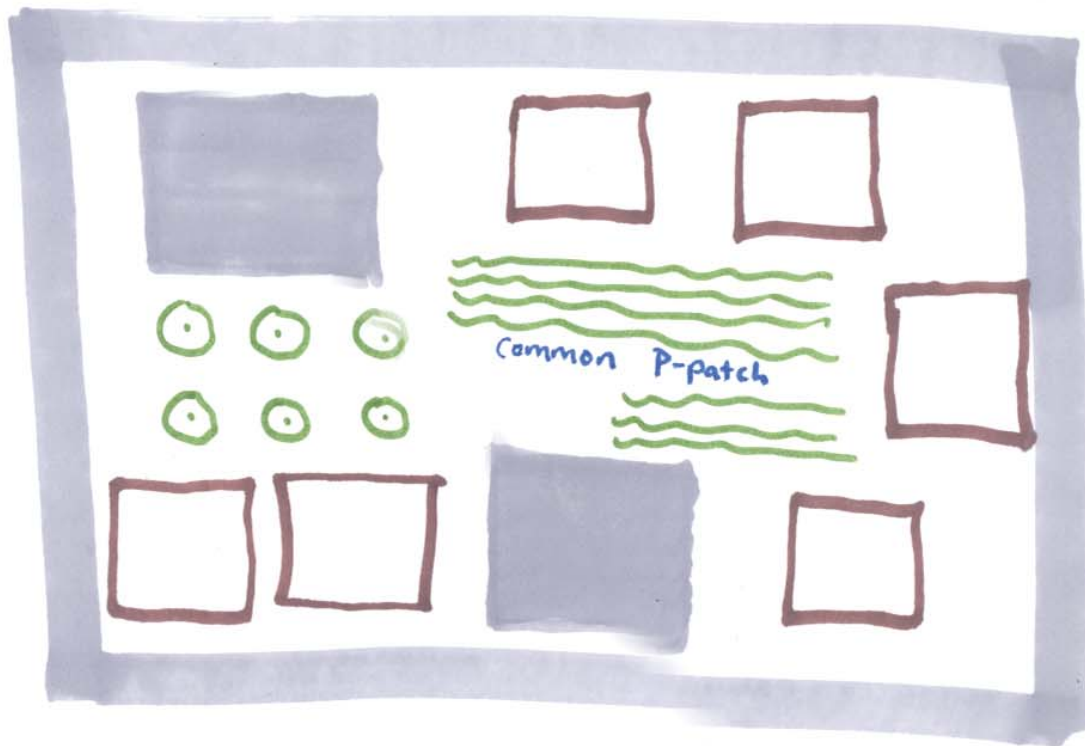
Medium Density

mid-rise buildings with building open space & green roofs



mid-rise/mixed-use & single family homes

common 'victory' gardens

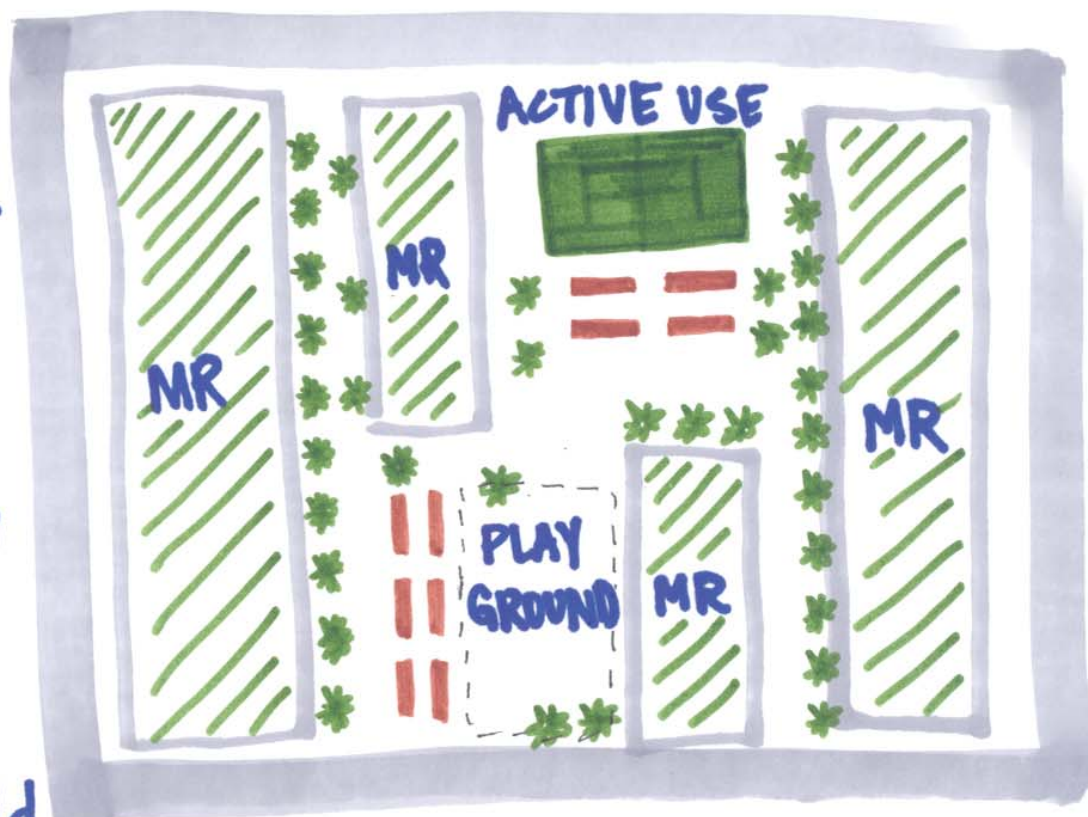


mid-rise USE

green-roofs

opportunity for active use

- tennis court
- soccer field

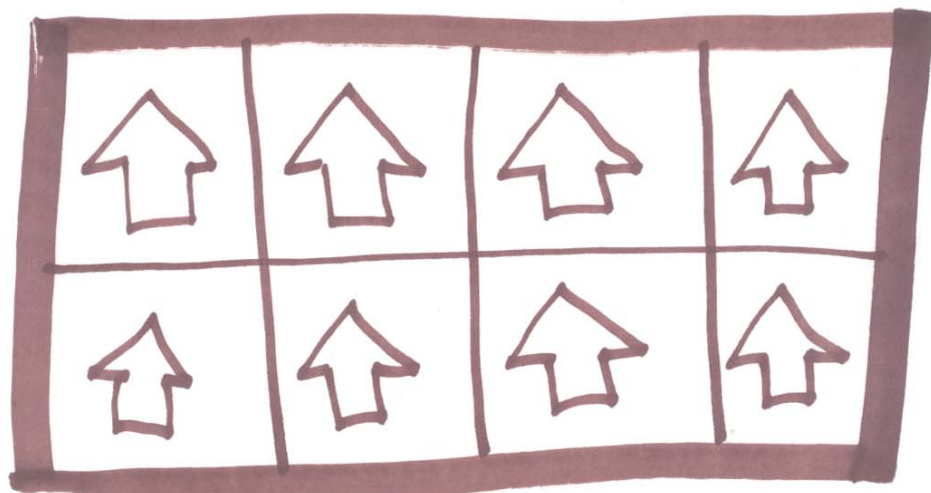




Lower Density

LOW DENSITY

SINGLE FAMILY HOUSING



No Change - Single Family homes

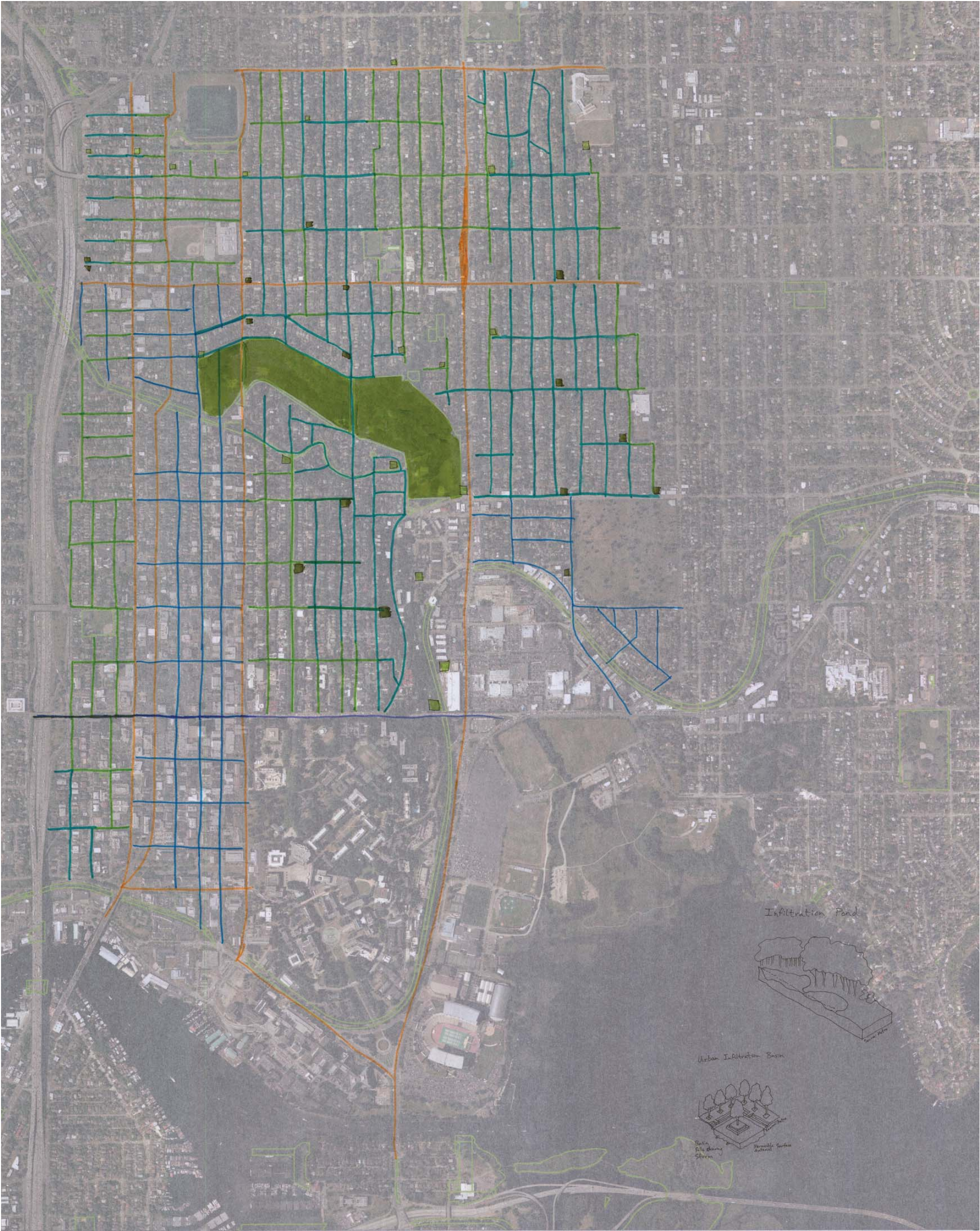


# WATERFRONT OPEN SPACE





# STREET NETWORK



Green Street



Pedestrian Street



Transit Line



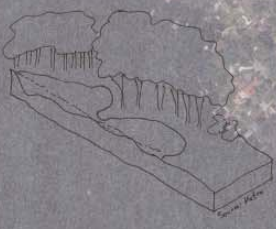
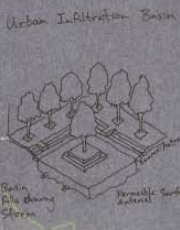
Urban Infiltration Basin

Infiltration Pond



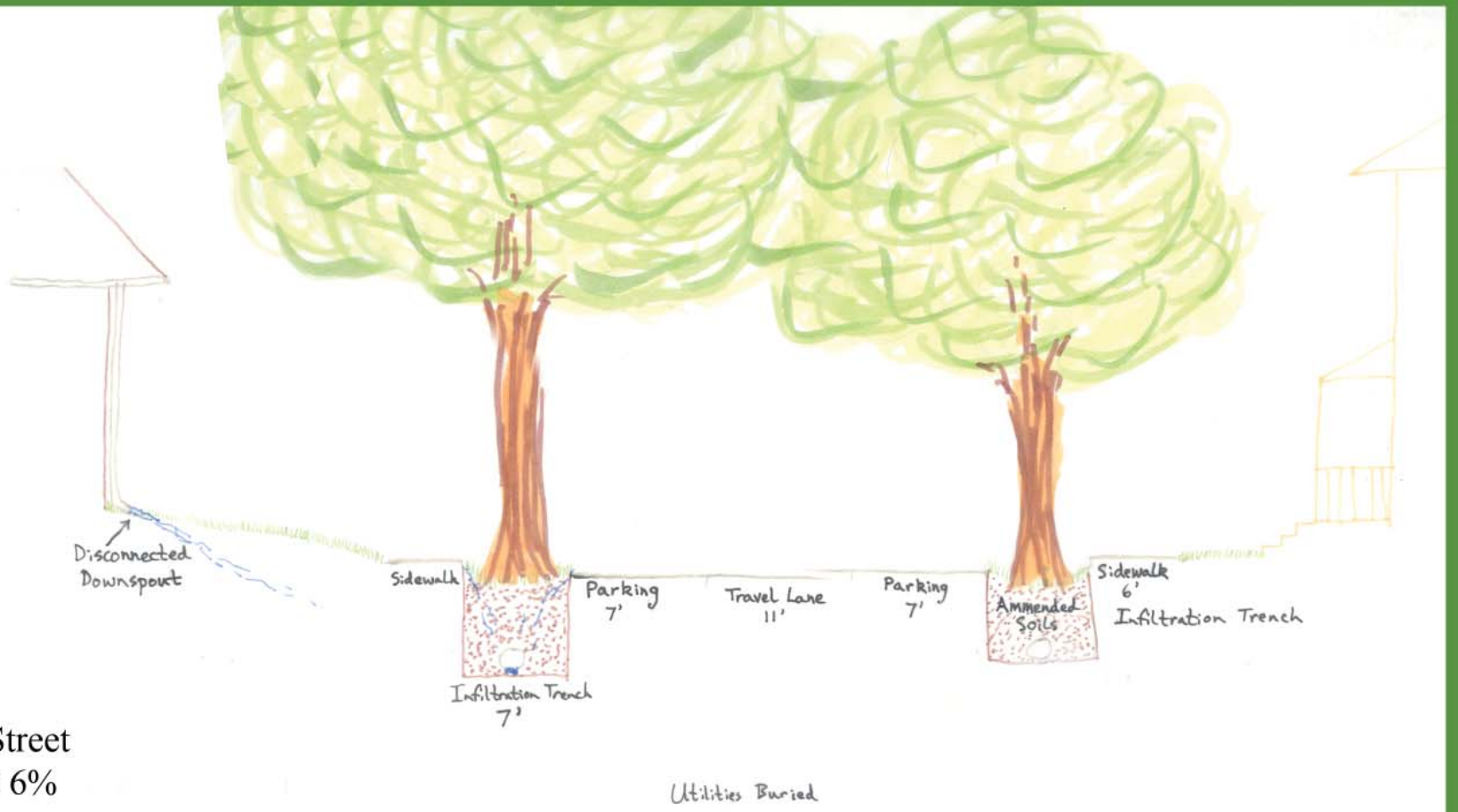
1 inch equals 400 feet

0 0.25 0.5 Miles





# STREET TYPOLOGIES



Green Street  
Slope > 6%





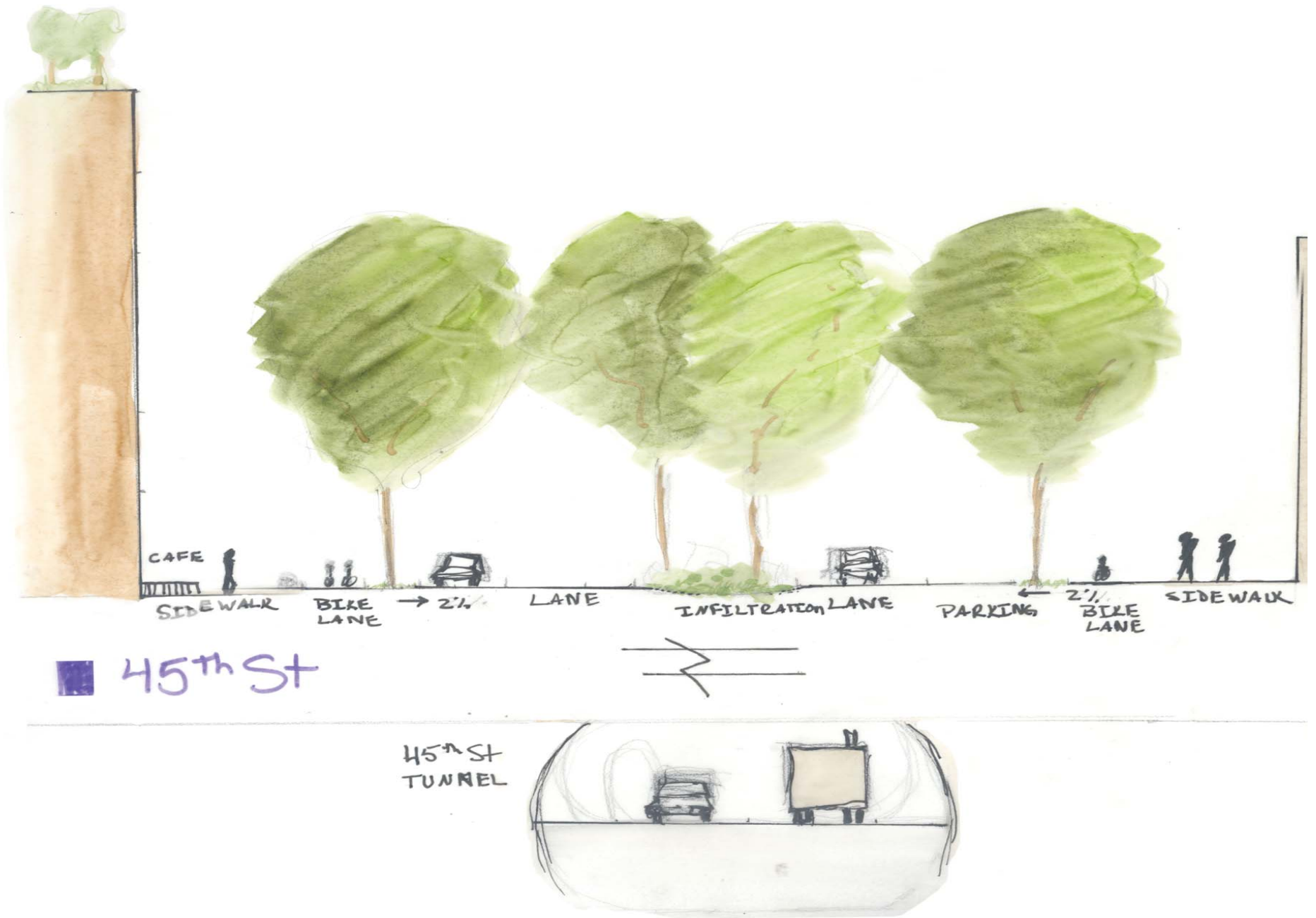


Transit Line



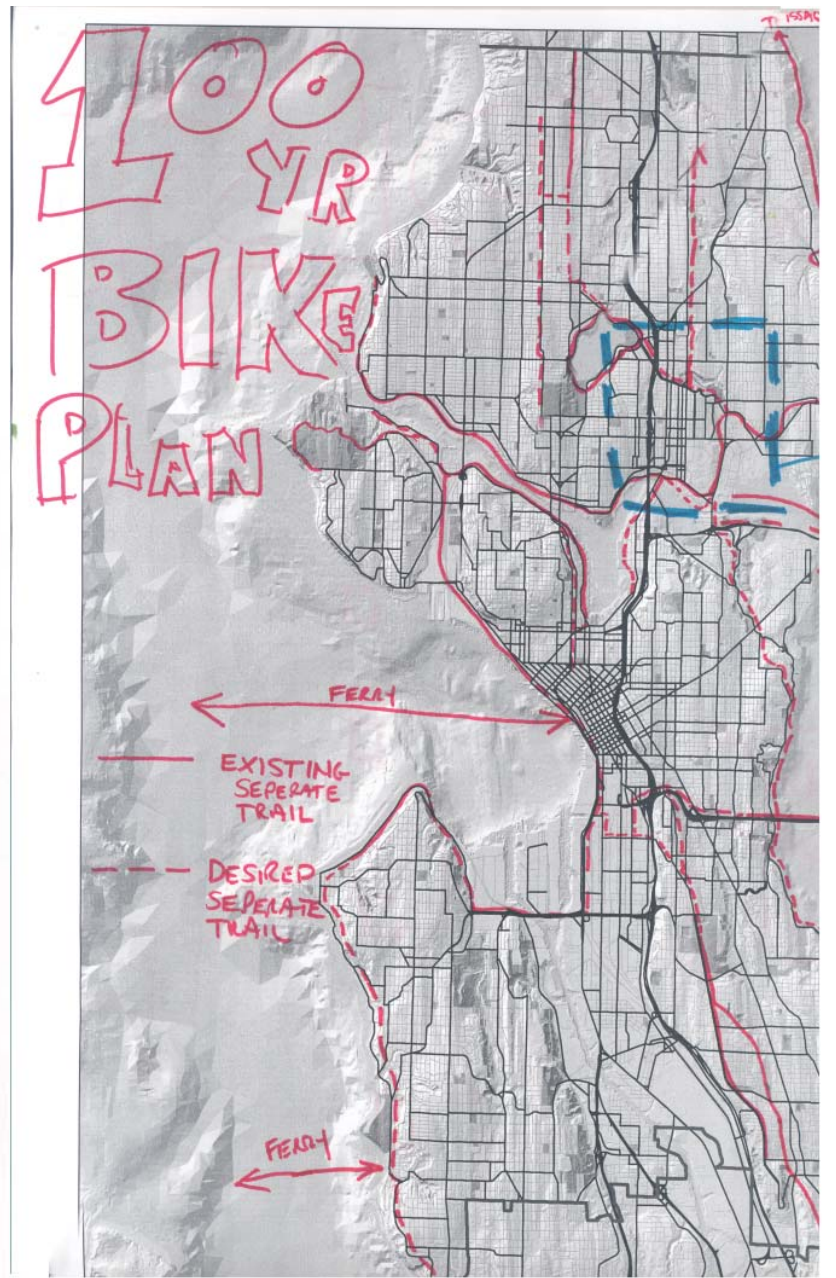
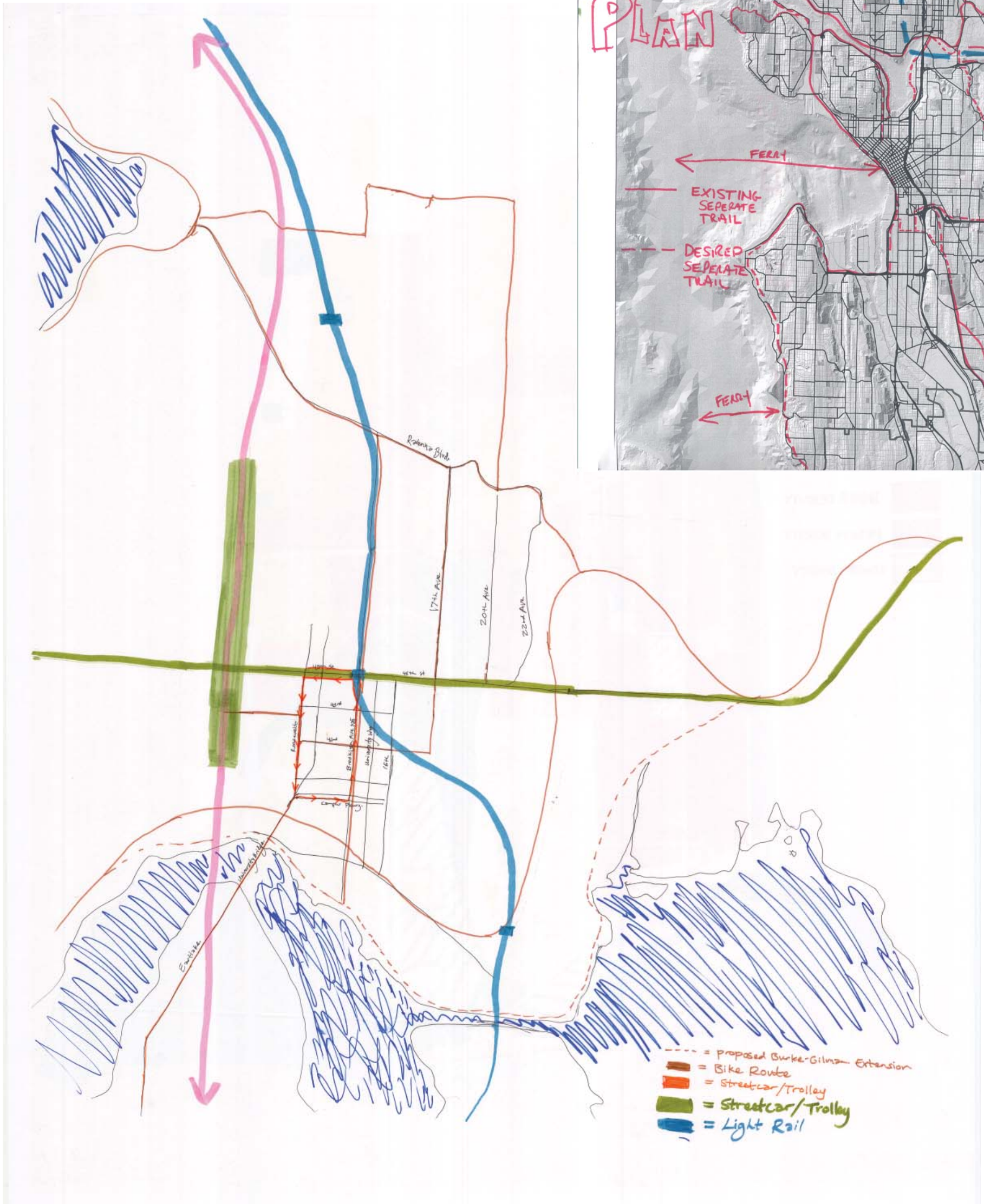
Pedestrian Corridor

# TUNNELED/LIDDED STREETS & OPEN SPACE





# TRANSPORTATION OPTIONS





# ALTERNATIVE ENERGY OPPORTUNITIES

