



PORTFOLIO

JASMINE SIYU WU

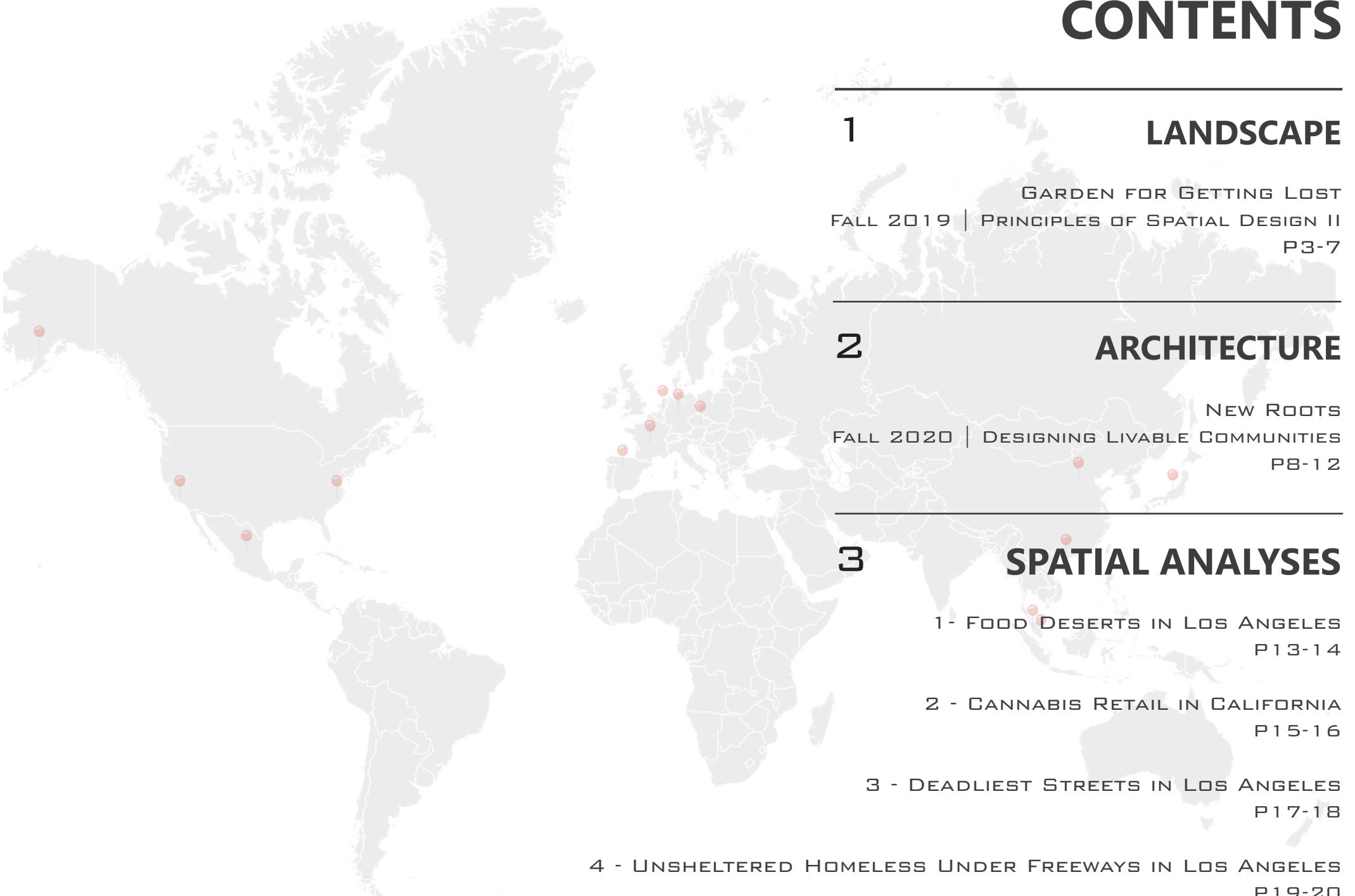
LANDSCAPE | ARCHITECTURE | SPATIAL ANALYSES

ABOUT ME

I am a candidate for the B.S. in GeoDesign at the University of Southern California (USC). Our program straddles three distinct schools within the university: School of Architecture, Sol Price School of Public Policy, and the Spatial Sciences Institute.

As part of my academic pursuits in my graduate studies, I am interested in integrating planning with data computing and modeling. My current research interests include urban informatics, spatial data sciences, environmental justice and sustainable design, and transportation planning. Since last year, I have been working as a professional student worker in the Los Angeles Department of Transportation (LADOT) to process and analyze transportation collision data for improving street safety in the city of Los Angeles. I was also a Summer Undergraduate Research Fellow and an Undergraduate Research Association Program-funded student researcher (2019-2020) working for Dr. Robert Vos to analyze and visualize the spatial colocation of health behavior bads (e.g. cannabis) and various demographic populations.

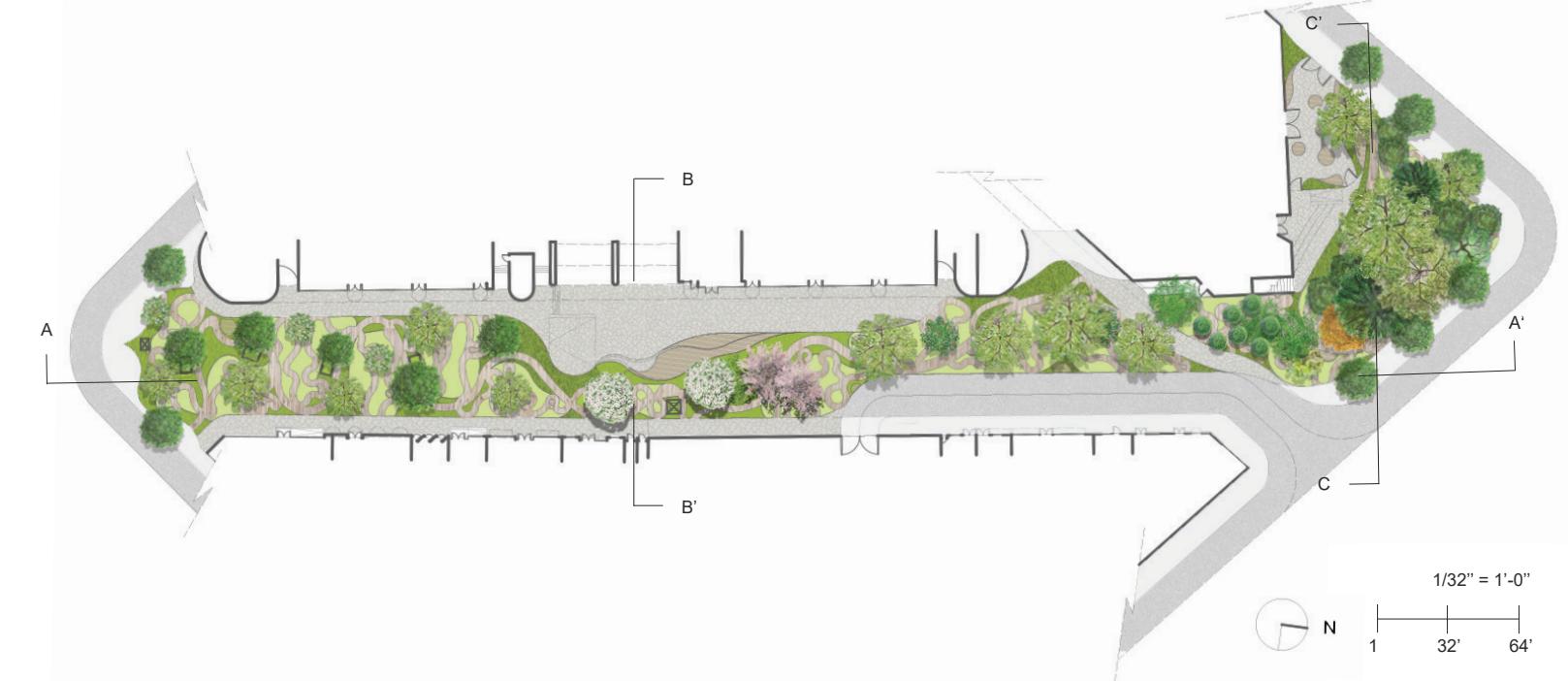
CONTENTS



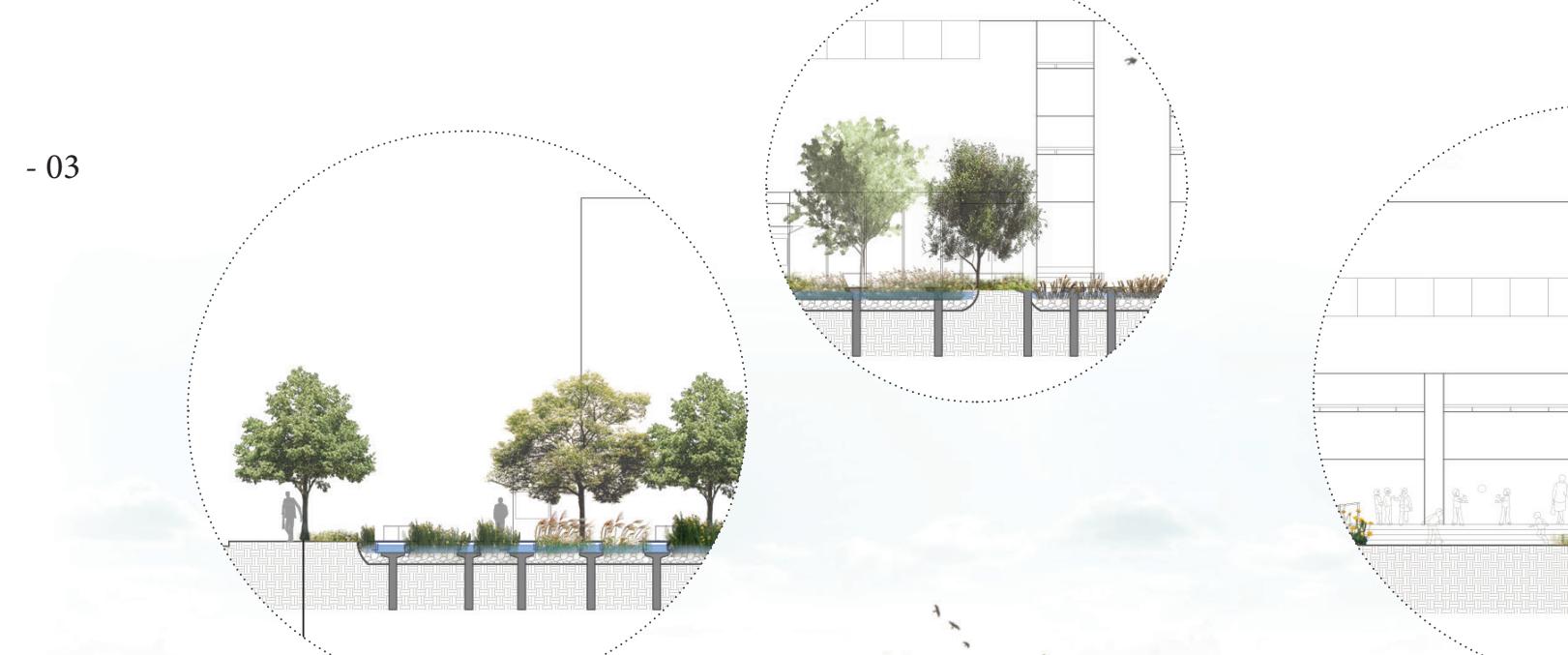
LANDSCAPE

GARDEN FOR GETTING LOST
FALL 2019

Located in the Little Tokyo neighborhood in Downtown Los Angeles, the 0.87-acre, 200-meter Garden for Getting Lost is a linear park characterized by dualities like the Japanese-American experience. A constructed wetland sustained by gray water from the adjacent hotel makes its way through the site alongside a meandering landscape of drought tolerant native and naturalized plants. Meanwhile, two paths – the Tokyo Path and the Los Angeles Path – embodying two cultures winds its way through the landscape. Flowering, deciduous plants dominate the Tokyo Path while evergreen plants feature more prominently in the Los Angeles Paths.



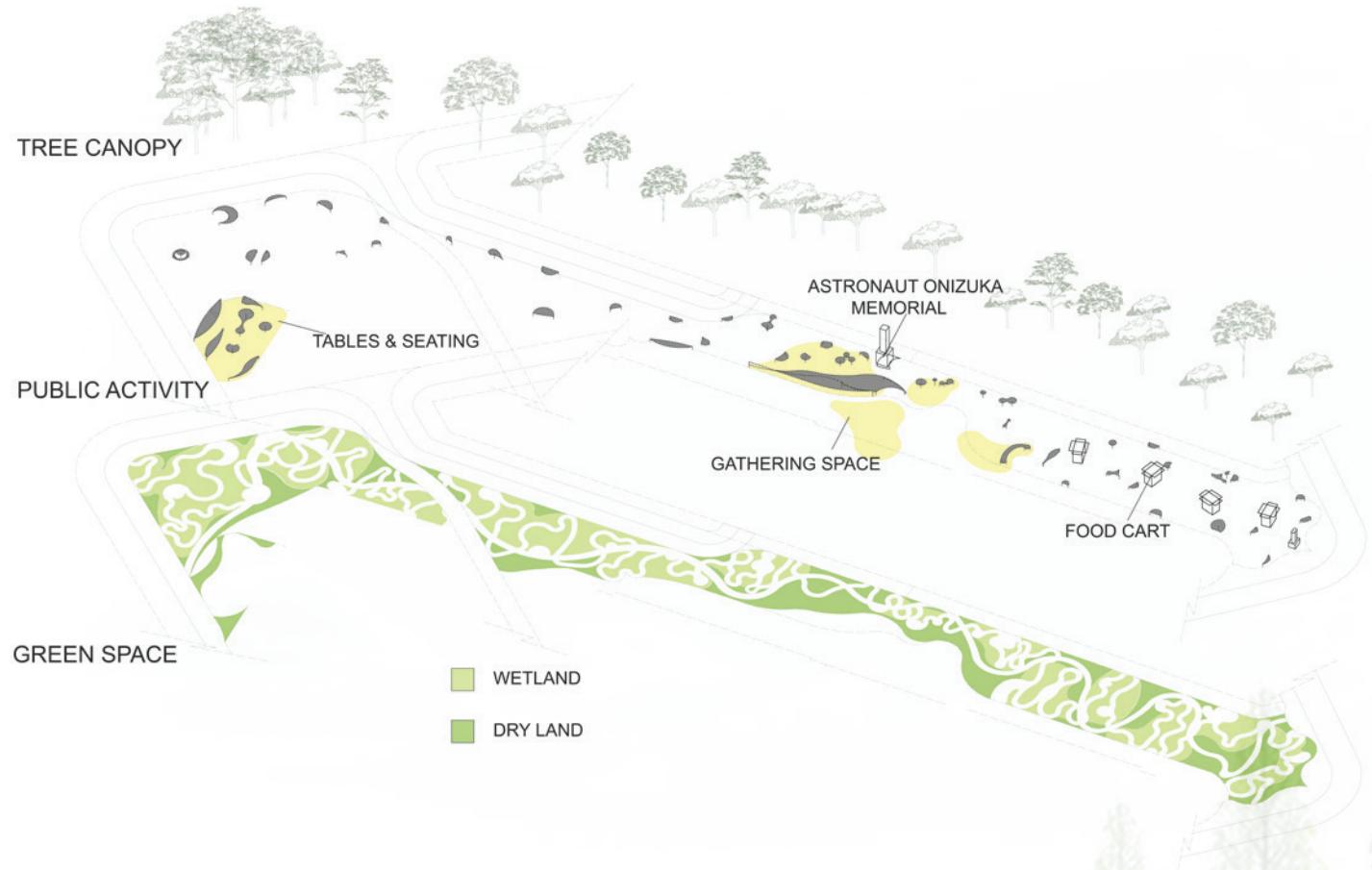
- 03



04 -



LONGITUDINAL SECTION A-A'

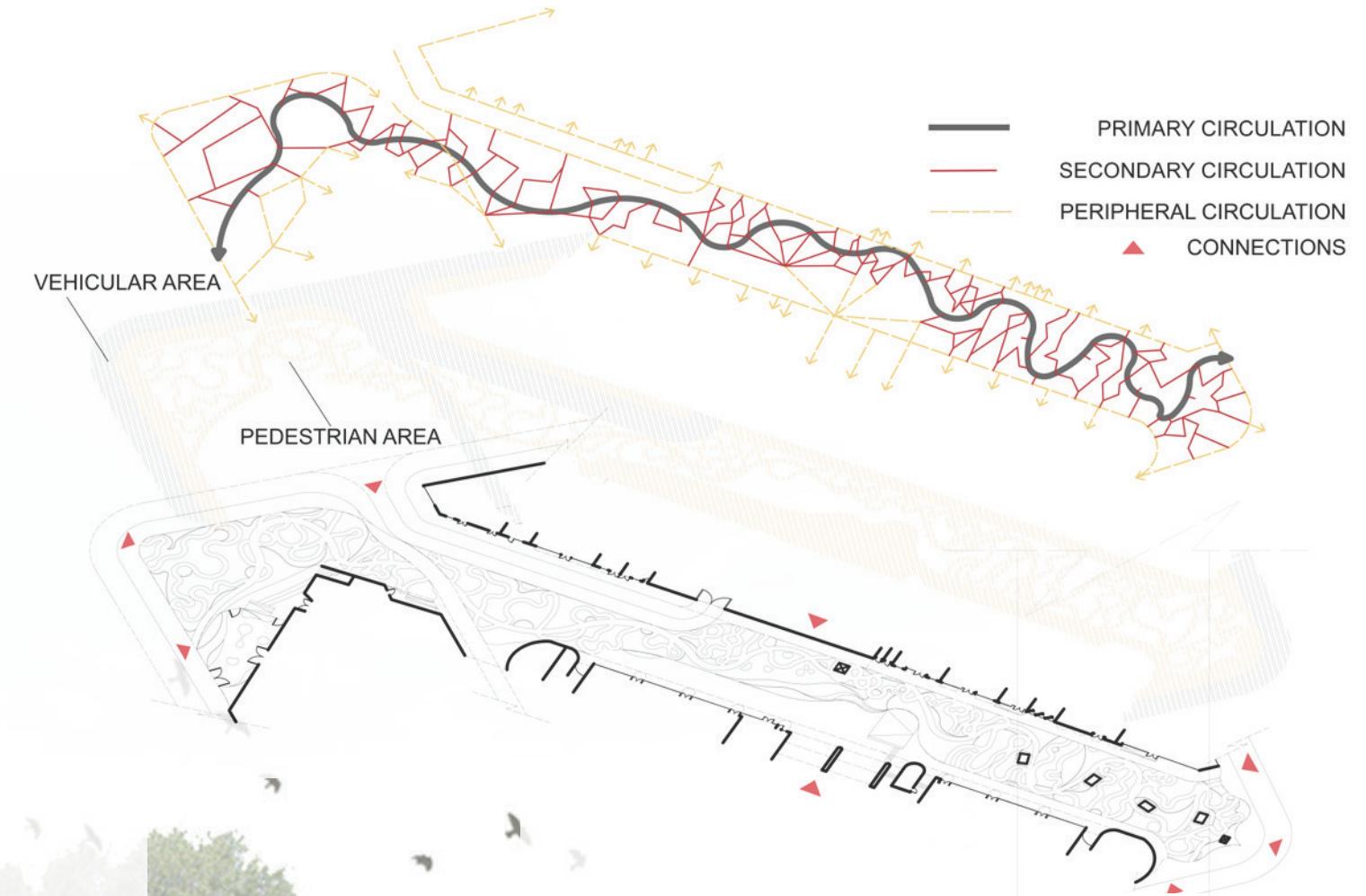


- 05

Open Lawn is the project core, a gathering space where tables, seating, and a wood deck are available for outdoor events. Whereas Picnic Time and The Meander are filled with plants of a mix of heights, The Forest on the north end of the site, is filled with tall trees and promotes the idea of "getting lost."

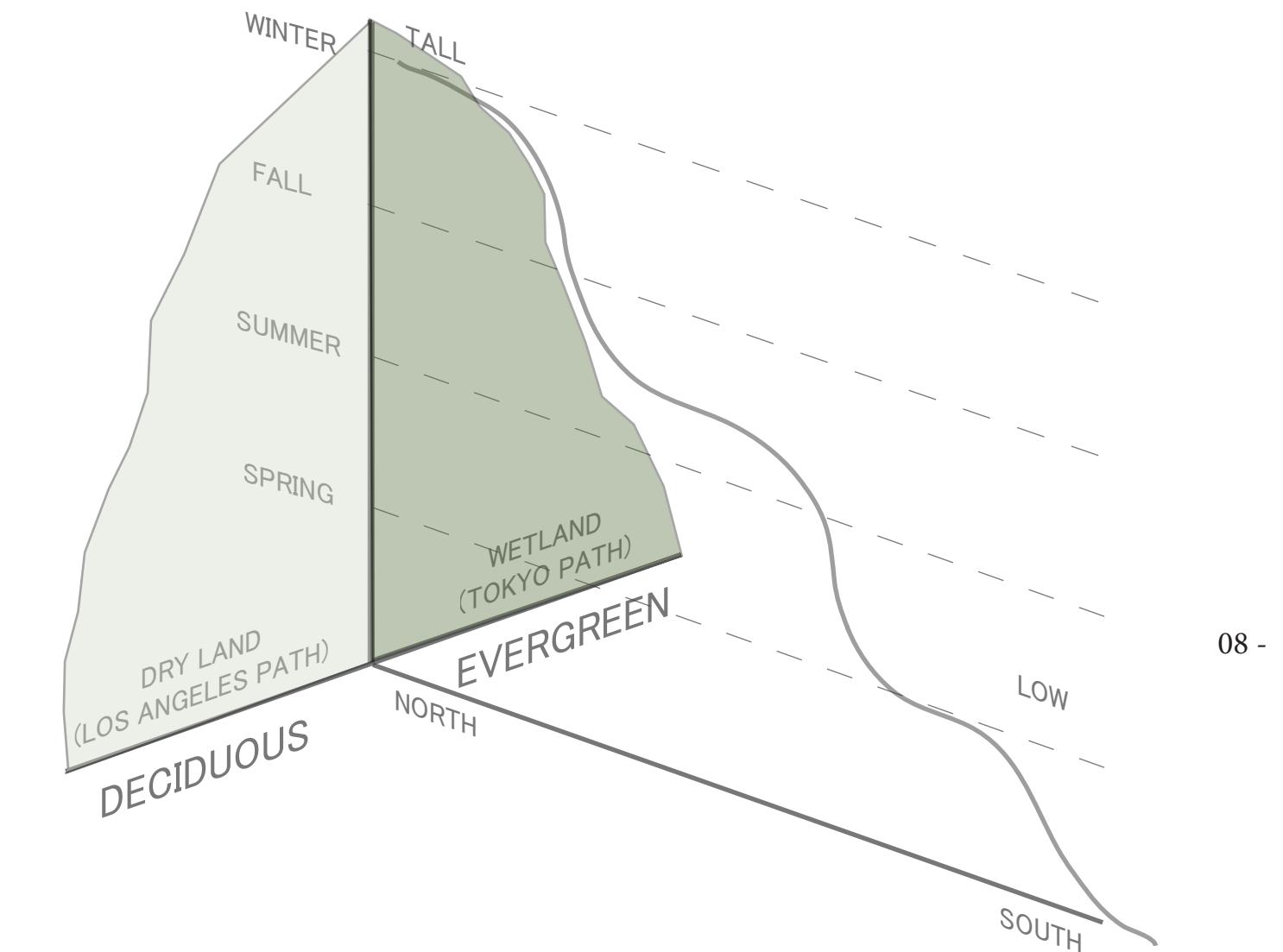
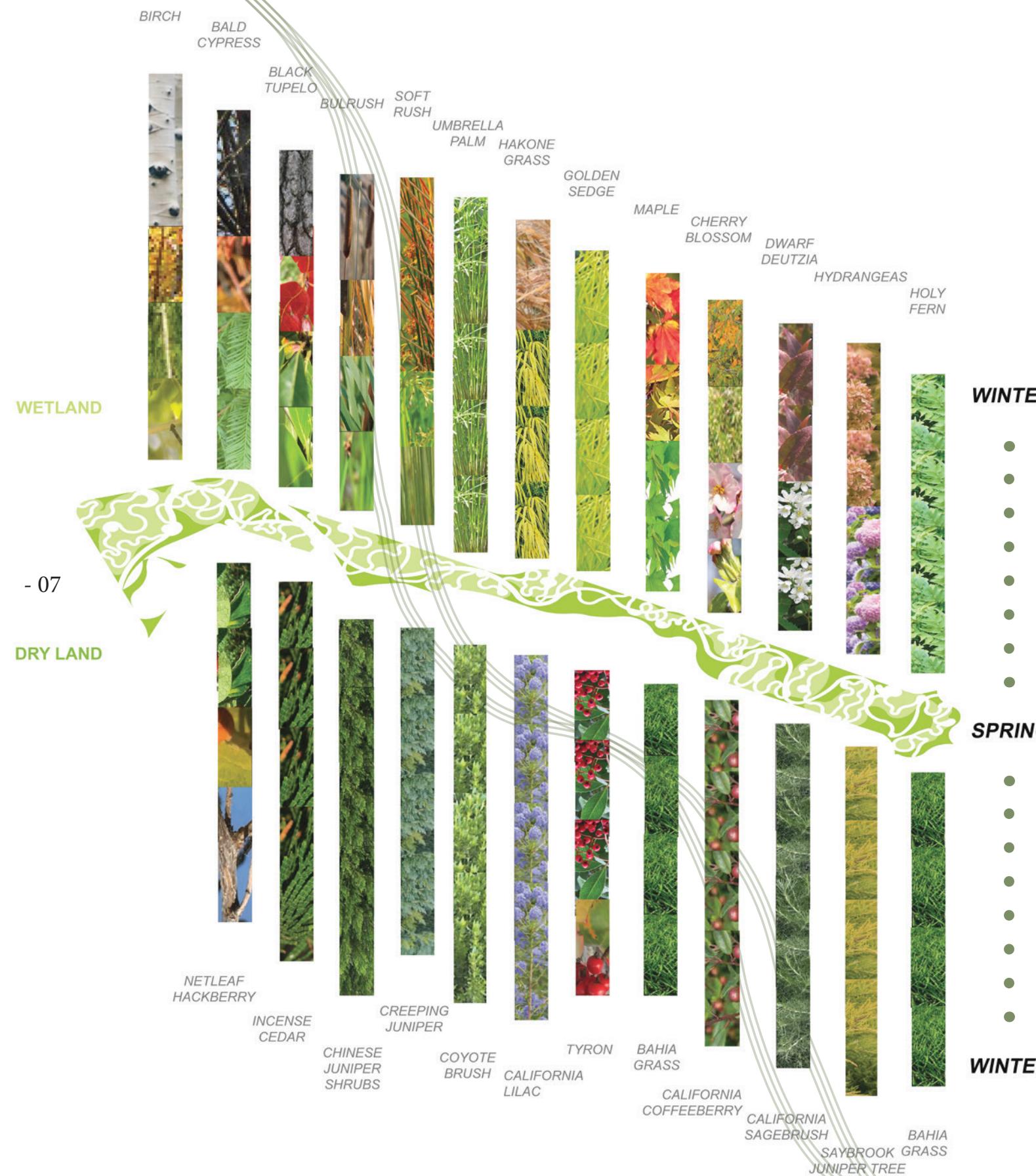


TRANSVERSE SECTION C-C'



06 -

HIGH



Running north to south, the park is comprised of four major segments with varying functions: "Open Lawn," "Picnic Time," "The Meander," and "The Forest." The plants utilized in each area change in height, shape, texture, color, and seasonality.

First impressions of the park will vary depending on where one enters the park. The weaving paths, the wet and dry landscapes, and the mix of planting offer a constantly changing walking experience. Both paths aim to create an enjoyable, immersive walking experience for community residents, office workers, and visitors. From sunrise to sunset, everyone is welcomed to visit this garden for "getting lost" regardless their purpose.

2

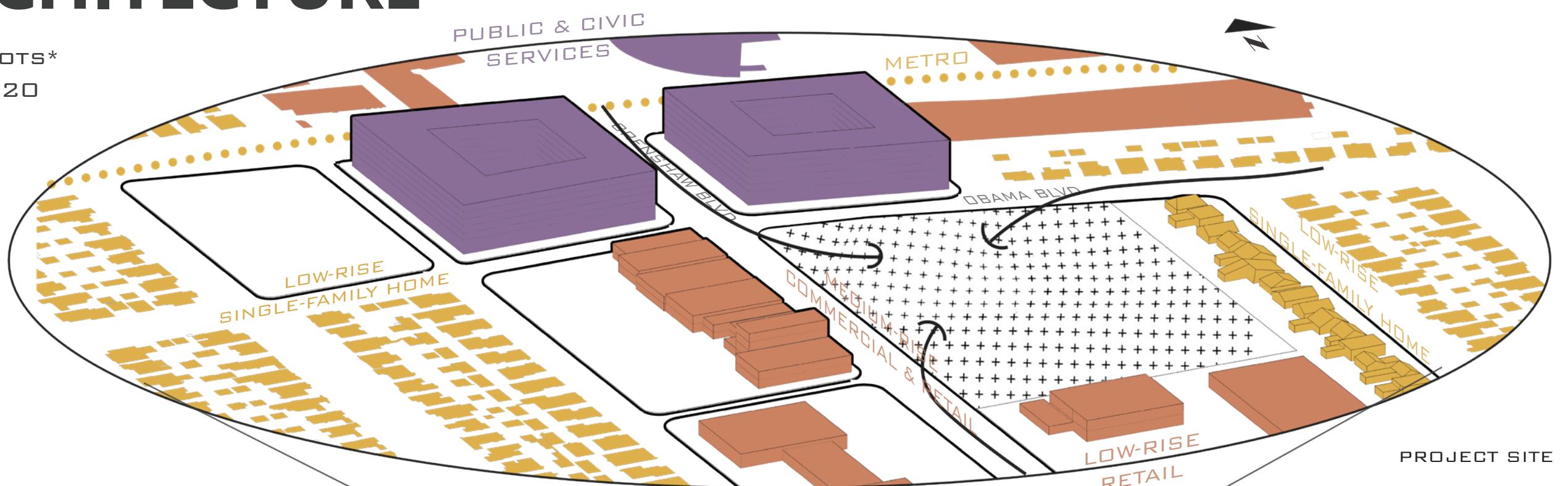
ARCHITECTURE

NEW ROOTS*
FALL 2020

The site is located in Los Angeles' thriving Crenshaw neighborhood. Crenshaw is an important cultural hub for Los Angeles' black community under immense gentrification pressures. There is an opportunity to uplift the area surrounding the site, which is currently a food desert, lacking in places for people to gather, and deficient of affordable housing. The Los Angeles Homeless Services Authority reported over 66,000 unhoused residents in 2020 signaling the lack of affordable housing available in Los Angeles. At least 180 unhoused persons live in the neighborhoods surrounding the site (Leimert Park, West Adams, Crenshaw, and Baldwin Hills).

We proposed a new housing development with affordable housing units for formerly unhoused persons with a community garden at its core. In general, the project aims to create a new space for bringing together the entire Crenshaw Community, to celebrate locally-owned businesses, and promote a healthy lifestyle.

* The development vision of this project was collaboratively completed with Emily Wulf for Prof. Liz Falletta's RED 425: *Designing Livable Communities*. Additionally, I was responsible for all of the design work and graphs.



PROJECT SITE

10 -



CRENSHAW COMMUNITY

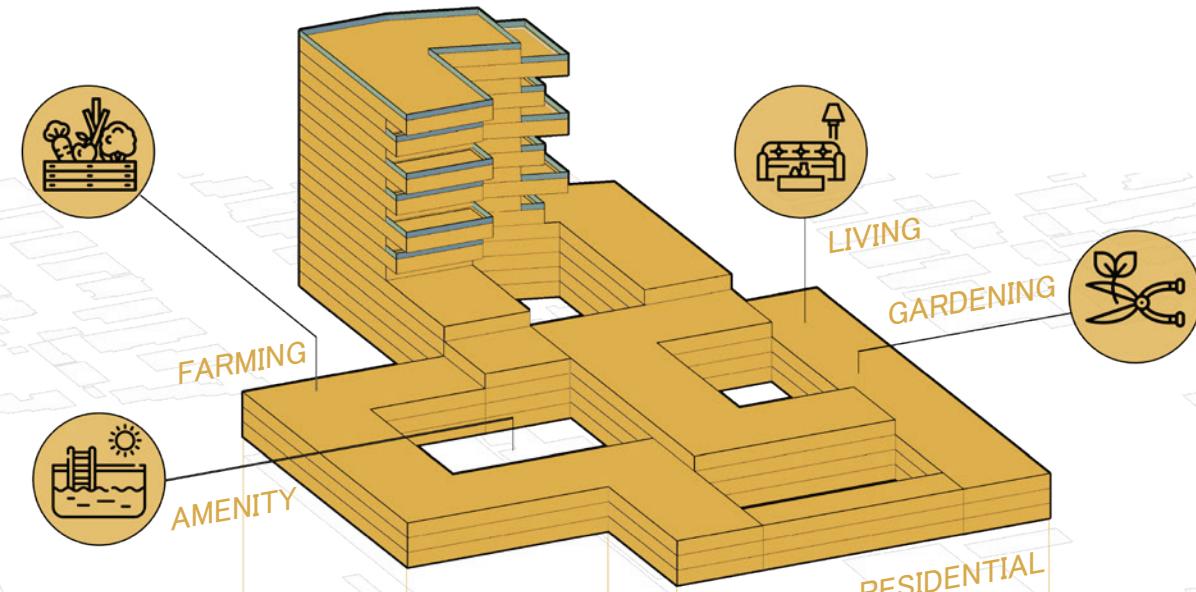


LOS ANGELES CITY

The project's public open space is intended to infuse greenness, freshness, and activeness into the tenants' and neighborhood residents' lives with multiple functions for gathering, eating, and leisure.

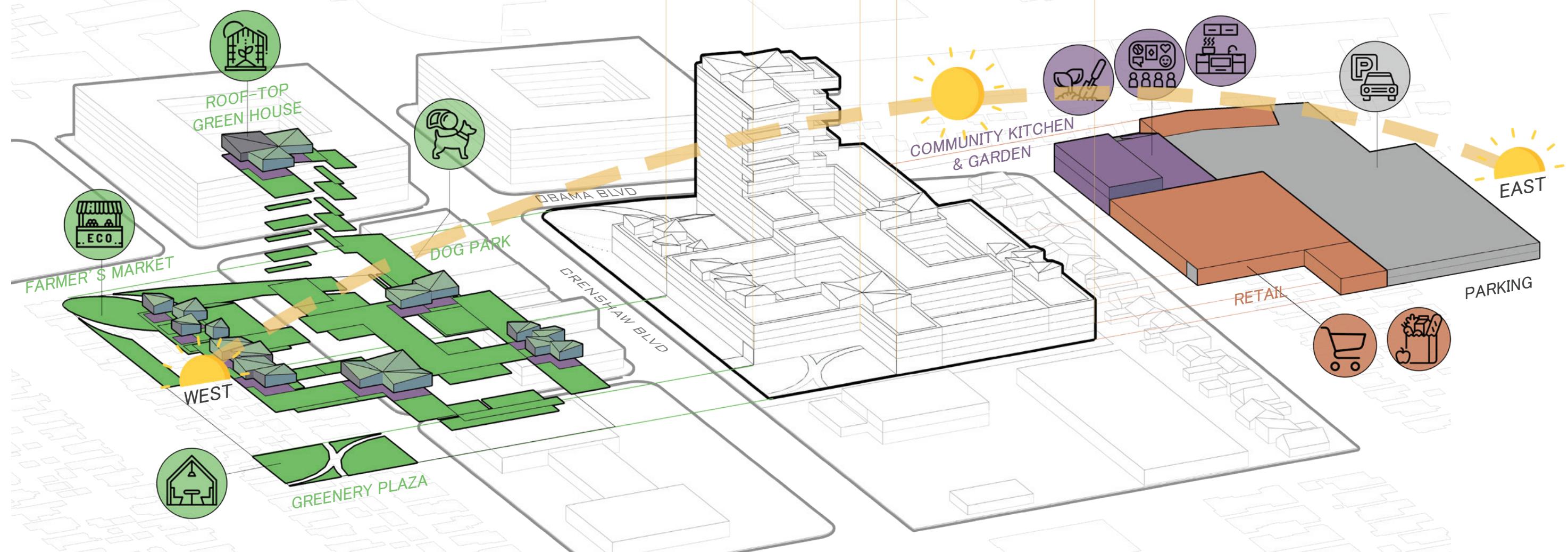
4 OPEN SPACES:

An elevated roof-top community garden and farm, a ground-level semi-paved plaza next to retail with moveable furniture, a ground-level greenery plaza for public gathering and weekly farmer's markets, a small ground-level dog park as a buffer zone between the single-family households



To promote horticultural therapy and a healthy lifestyle, the development will be responsible for managing a community kitchen and a community garden open to the larger Crenshaw community. Moreover, rooftop terraces and farms will be attached to the housing units for the tenants.

- 11



- 12 -

3

SPATIAL ANALYSES

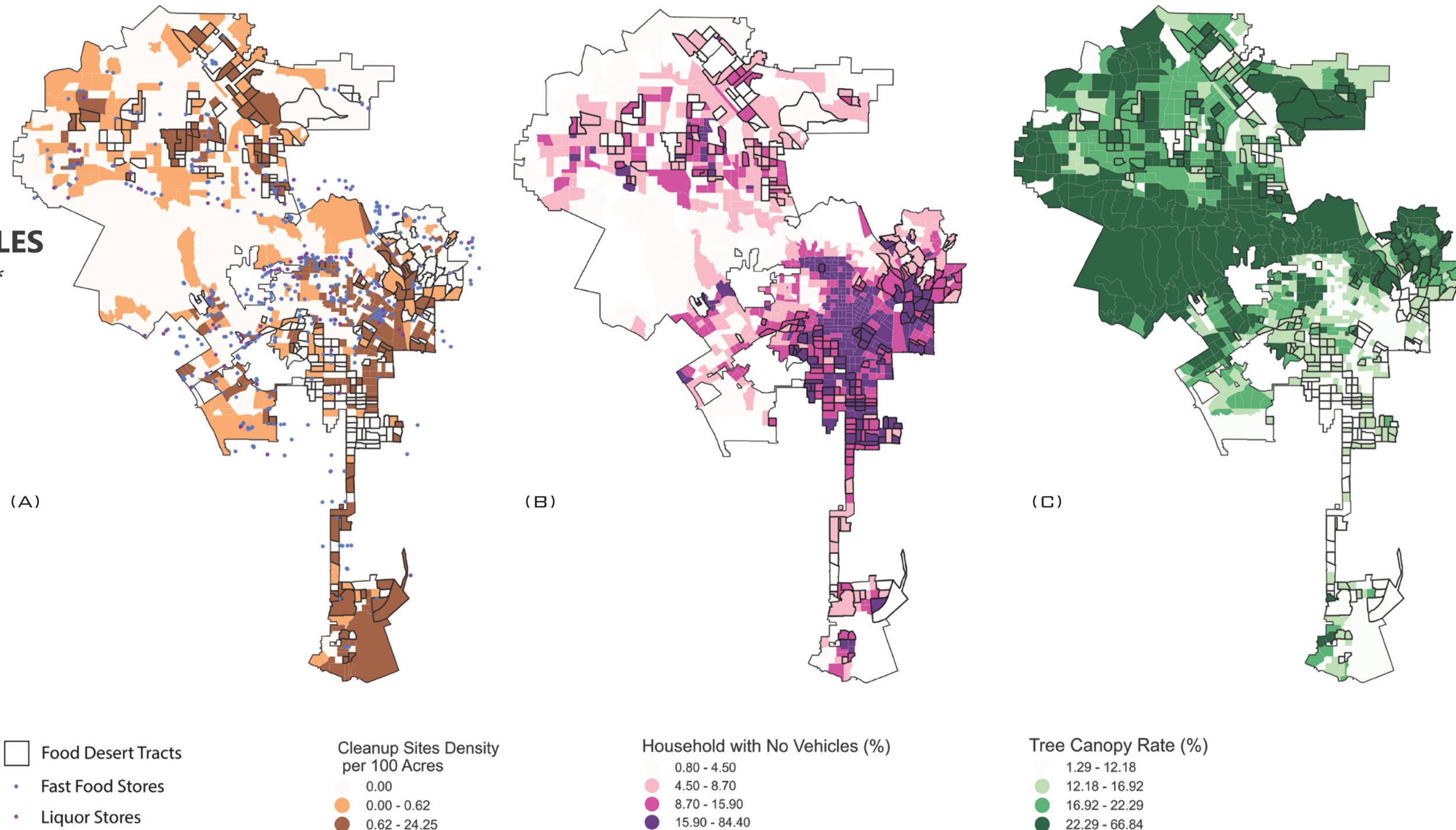
FOOD DESERTS IN LOS ANGELES GROUP RESEARCH PROJECT* FALL 2020

The health disparities caused by food deserts disproportionately affect low-income populations that lack the proper resources. Not only do food deserts explicitly impact these vulnerable populations, environmental health risks and pollution have a similar effect.

(A) The darker areas are places with a high density of DTSC (Department of Toxic Substances Control) cleanup sites, which strongly correlate with the food deserts and environmentally hazardous regions in Los Angeles.

(B) From the downtown area to the South Los Angeles corridor, tract-level percentage of housing units with no vehicle available tends to be closely associated with food deserts, while the north valley performs reversely.

(C) Tree canopy coverage was relatively deficient in the southern part of Los Angeles, where food deserts were more densely distributed. In northern Los Angeles, where canopy coverage is denser, food deserts are relatively sparse.

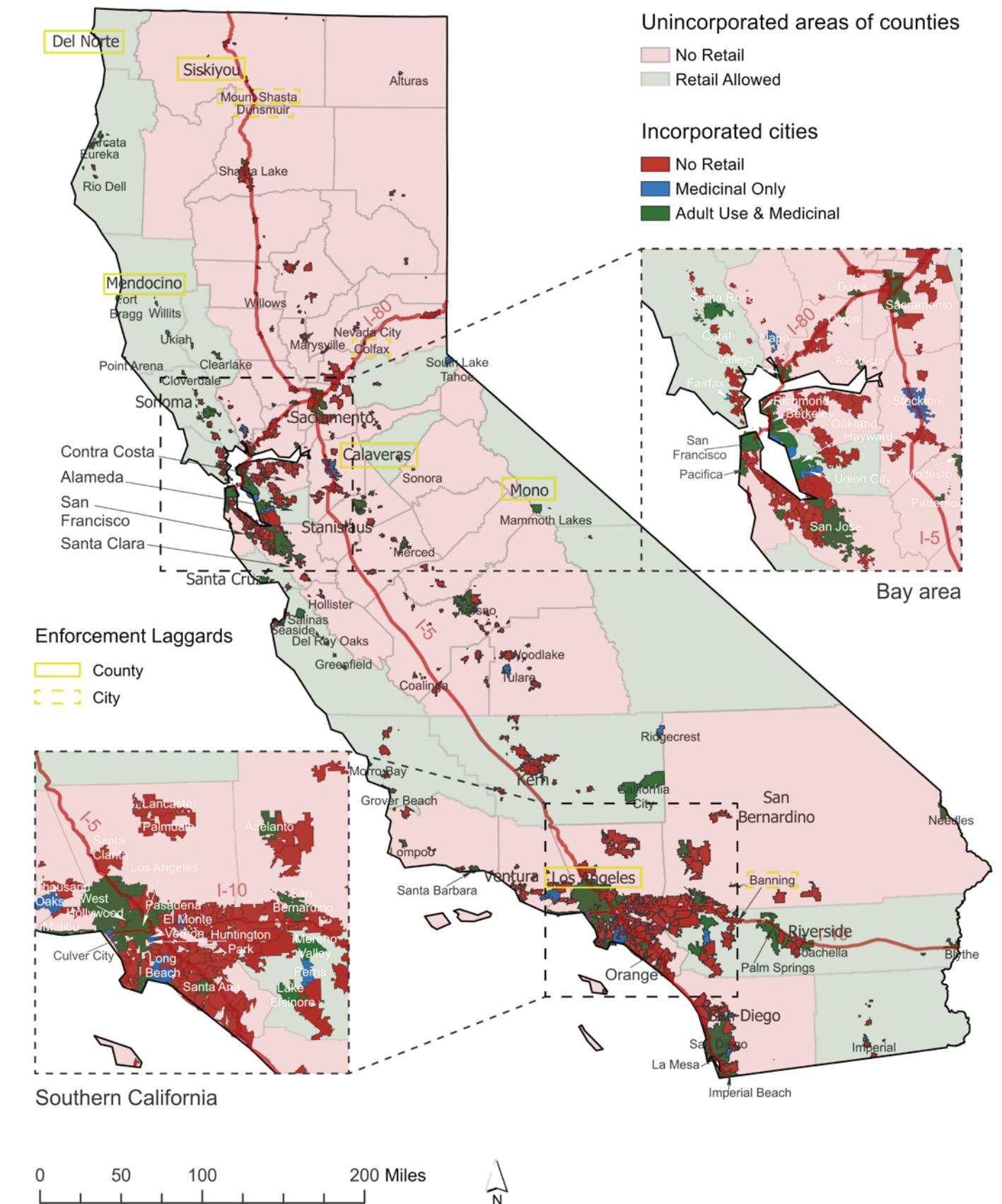
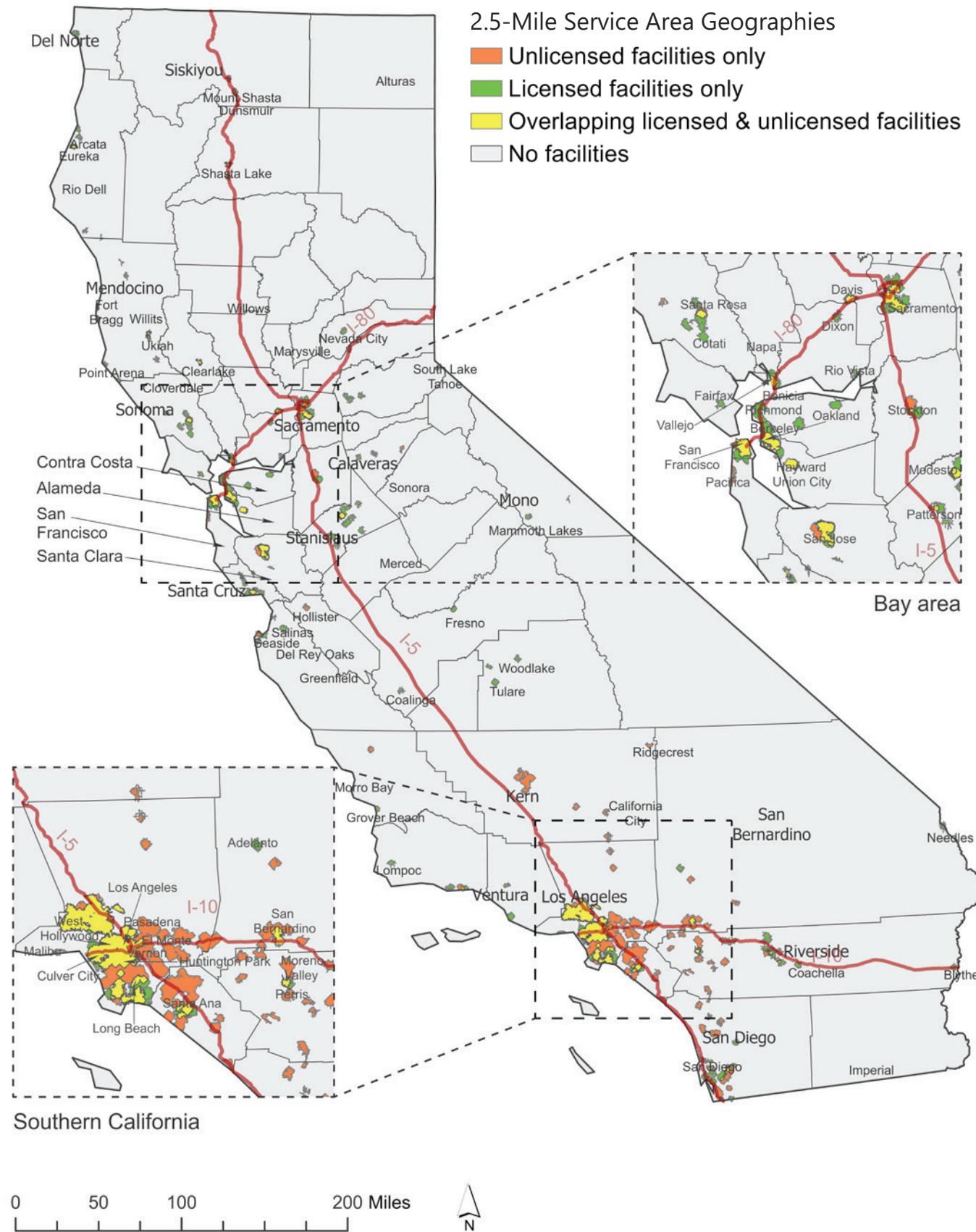


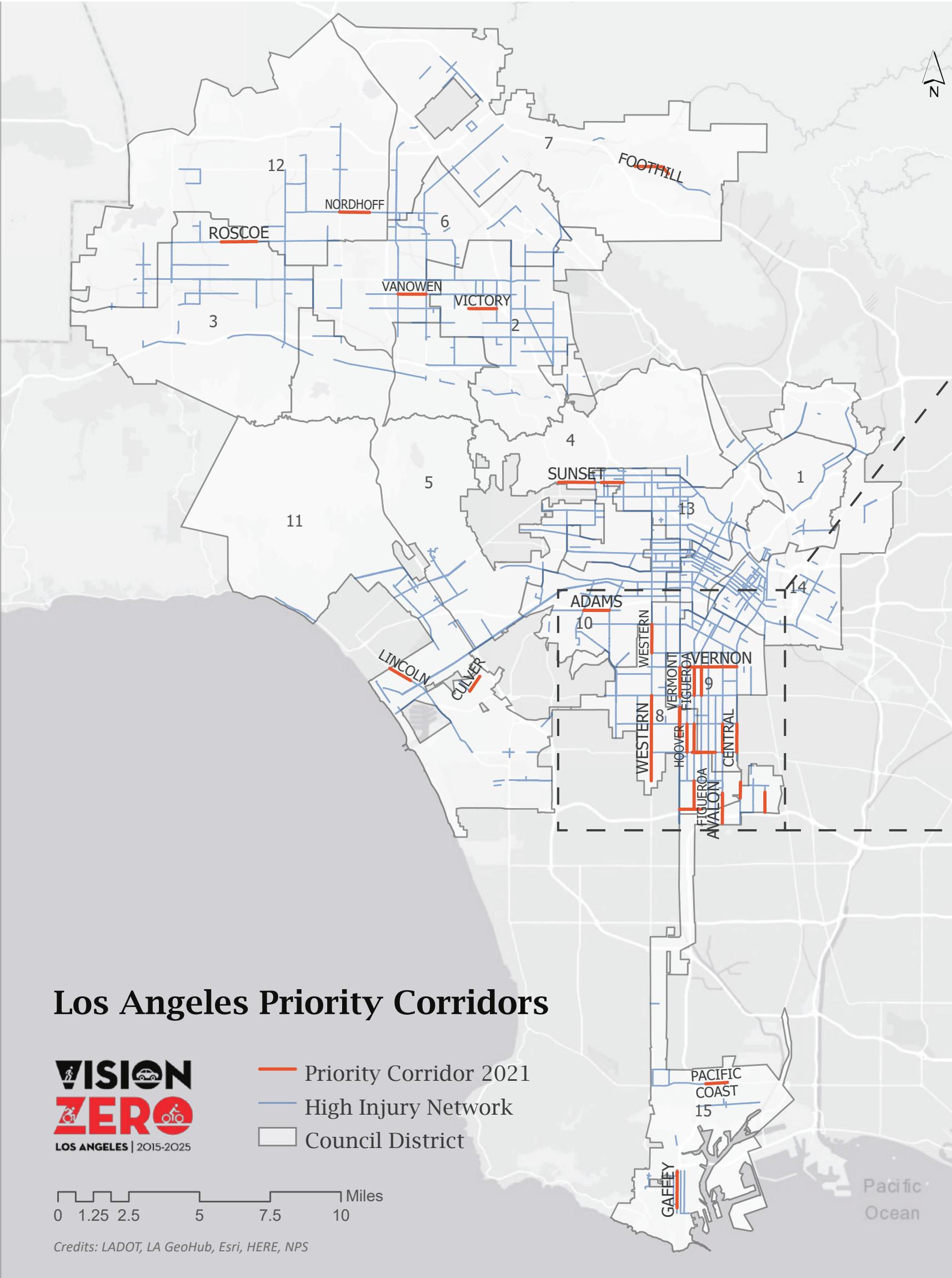
* The group research project was collaboratively conducted with Gwen Lester, Andrew Stables, Micheal Clarke, Yi Xu, and Yiling Xu for Dr. Geoff Boeing's PPD 534: Data, Evidence, and Communication of the Public Good at the University of Southern California. I was responsible for all of the data collection, coding, and preparing the maps.

CANNABIS RETAIL IN CALIFORNIA

ACADEMIC RESEARCH PROJECT*

SUMMER - FALL 2020





Los Angeles Priority Corridors



- Priority Corridor 2021
- High Injury Network
- Council District

0 1.25 2.5 5 7.5 10 Miles

Credits: LADOT, LA GeoHub, Esri, HERE, NPS



DEADLIEST STREETS IN LOS ANGELES

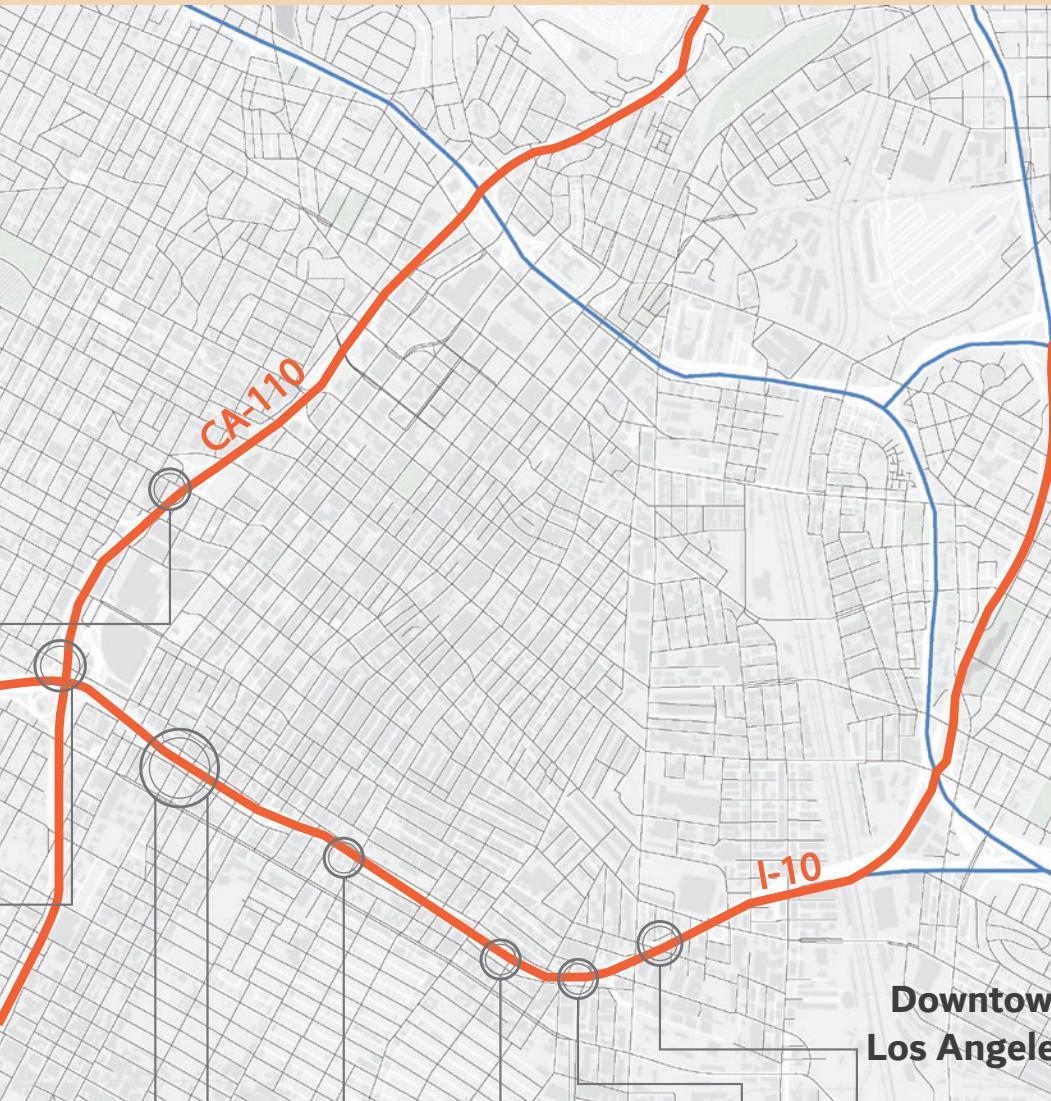
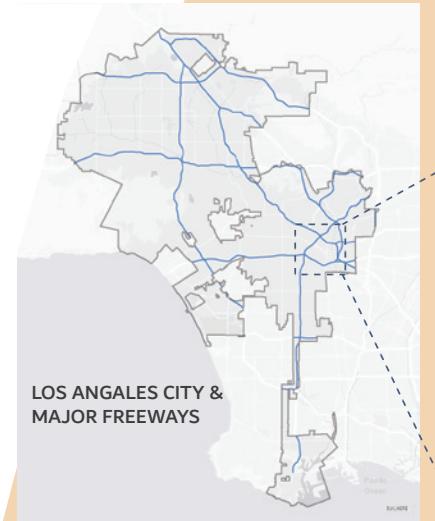
OFFICE-RELATED PROJECT*, DEC., 2020

The 2021 priority corridors of the Los Angeles City Vision Zero Initiative reidentified some of the deadliest streets in the city using the 2015-19 Killed or Severely Injured (KSI) collisions data. With the goal of eliminating traffic-related fatalities by 2025, the identified priority corridors can help the Los Angeles Department of Transportation (LADOT) in its implementation of safety measures such as "road diets."

* I was responsible for the python script update and preparing the maps. All rights reserved by LADOT.

UNSHELTERED HOMELESS LIVING UNDER FREEWAYS IN LOS ANGELES

Date: Nov., 2020
Authors: Jasmine Wu, Emily Wu



	TENTS	MAKESHIFT SHELTERS
CA - 110	79	26
I - 10	8	9
TOTAL	87	35



FACTS

According to the 2020 Greater LA homeless count, of the 41,290 homeless population in the City of Los Angeles, **12,438 (30%) ARE SHELTERED** while **28,852 (70%) ARE UNSHELTERED**.

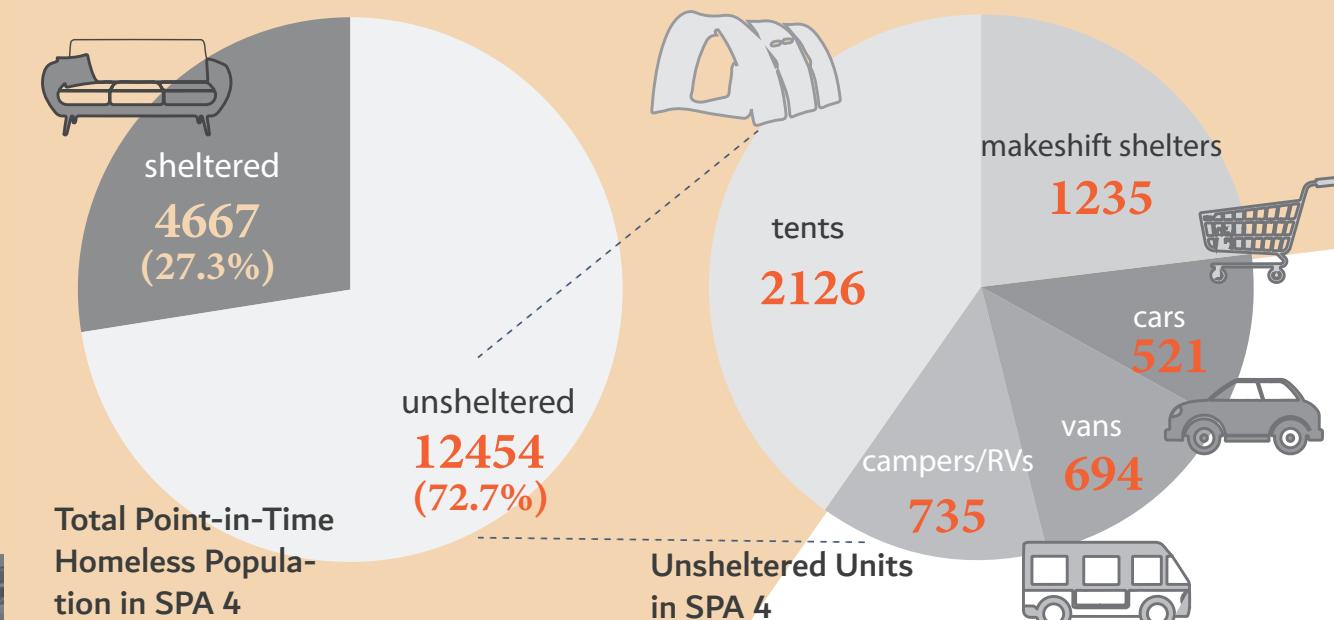
Los Angeles hosts one of the largest homeless populations in the country: Of the total homeless residents, the **MAJORITY ARE UNSHELTERED BASED IN TENTS, MAKESHIFT SHELTERS, CARS, etc.**

IN MAY 2020, U.S. District Judge David O. Carter ordered that homeless residing in freeway-adjacent spaces, **ESTIMATED 6,000 TO 7,000 PEOPLE**, must be **RELOCATED** into a shelter or alternative housing.

The order states that:

- People residing in freeway-adjacent spaces must be given advanced warning before the encampment is cleared.
- Alternative shelter housing must be made available to anyone forced to relocate.
- Shelter space must also be provided for personal belongings.
- Shelter spaces must adhere to social distancing and have adequate hygiene facilities.

i.e. Los Angeles Service Plan Area 4 (SPA 4)



Sources - ESRI, google maps
 "2020 Greater Los Angeles Homeless Count Results." Los Angeles Homeless Services Authority, LAHSA, 12 June 2020, www.lahsa.org/news?article=726-2020-greater-los-angeles-homeless-count-res
 Chandler, Jenna. "LA Now Has until September to Shelter Homeless Living along Freeways." Curbed LA, Curbed LA, 22 May 2020, la.curbed.com/2020/5/15/21260566/homeless-freeways-los-angeles-camps-shelter-ults.
 Paskin, Julia. "Homeless LA Residents Are Ordered To Be Moved From Under Freeways." LAist, 15 May 2020, laist.com/2020/05/15/homeless_freeways_shelters_residents-carter.php.

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