



Dogpatch/22nd Street Greening TEAM MEMBERS

Prepared for:

GreenTrustSF Central Waterfront www.gtsfcw.org



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GOALS AND OBJECTIVES

ECOLOGY AND ENVIRONMENT

- Establish a model Green Street using a Kit of Parts of today's best practices.
- Plant Native vegetation and increase landscaped areas
- Improve Water Quality
- Increase Biodiversity
- Decrease water volume
- Recharge Ground Water
- Improve Air Quality
- Utilize Best Management Practices advocated by the San Francisco Public Utilities Commission

STRATEGY AND VISION

CONNECT THE COMMUNITY

- Jump-start the transformation of 22nd Street into a Green Street as envisioned by the Central Waterfront Plan
- Replicate 22nd Street Improvement Tools throughout • the Dogpatch Neighborhood
- Connect 22nd Street to the Expanding Green Street Network created by the Eastern Neighborhoods Plan

FORM A UNIQUE IDENTITY FOR THE 22ND STREET CORRIDOR

- Elevate 22nd Street as vibrant mixed use corridor to the center of the Dogpatch Neighborhood.
- Enhance public space for Commercial, Residential. and Institutional Users
- Traffic calming
- Improve public safety
- Enhance pedestrian, bicycle and mass transit street use
- Add amenities that promote use
- Increase Property Values
- Upgrade the Muni Park to improve public access









INTRODUCTION - Future Neighborhood Plans

Eastern Neighborhoods Plan



INTRODUCTION - Current Local Movements

Flexible Parking





In this approach, car parking spaces are converted to other uses, from cafe seating to greenery. San Francisco is implementing this concept into widespread use. The Great Streets Project will demonstrate the future of what an official "flexible parking space" will look like. We envision these spaces to be built with a secure platform that extends the curb but can be easily removed to provide for parking when necessary.

Pavement to Parks





San Francisco 's streets and public rightsof-way make up fully 25% of the city's land area, which is greater than the total space comprised in all of the city's parks. In order to ameliorate this imbalance the city has converted intersections to parks. San Francisco's new "Pavement to Parks" projects seek to temporarily reclaim these extra swathes by quickly and inexpensively turning them into public plazas and parks. As in the above example, their projects enclose this "extra" space for public use with the help of large scale planters.

www.sfpavementtoparks.sfplanning.org

Sunday Streets





Sunday Streets occur monthly during the summer when the city temporarily closes some streets to automobile traffic and re-designates them for walking, cycling, skating and playing for a few hours. This creates safe, fun carfree space on city streets that give San Francisco residents and visitors an opportunity to be active without having to compete with vechicular traffic. Sunday Streets events create a stronger sense of community in every neighborhood they touch and throughout the City.

www.sundaystreetssf.com

STREET GREENING PRECEDENTS





Project: Noe Street Traffic Calming

Clients: CA Pacific Medical Center Location: San Francisco, CA Date: 2008 Size: 4 Blocks

Typologies Used:

BB

Benefits:







Description:

This project aimed to increase pedestrian and bicyclist safety by installing bulb outs, widening the sidewalk in three locations, and adding angled parking on Noe Street between Duboce Avenue and 14th Street. The plan was to be funded by the hospital, and help reduce speeding while also retaining the existing tree islands on each end of the block.

SW 12th Ave



Project: SW 12th Avenue Street Greening

Clients: Portland State University Location: Portland, Or Date: Summer 2005 Size: 2 Blocks

Typologies Used:

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Benefits:







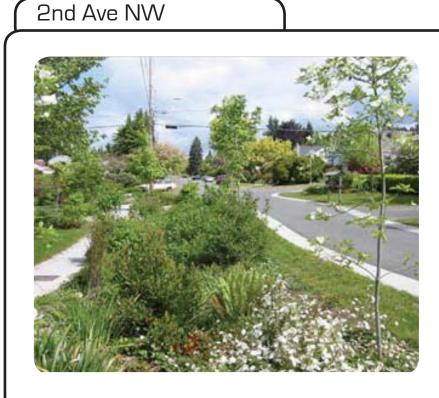
Description:

This project uses landscaped storm water planters to capture and infiltrate approximately 8,000 square feet of street runoff, while still maintaining strong pedestrian circulation and on-street parking. The project also demonstrates how highly urbanized areas can be designed to provide direct environmental benefits and beautiful.





STREET GREENING PRECEDENTS



Project: Street Edge Alternatives(SEA)

Clients: Seattle Public Utilities Location: Seattle, Wa Date: 2001 Size: 3 Blocks

Typologies Used:

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Benefits:





Description:

The street is designed to provide drainage that more closely mimics the natural landscape prior to development than traditional piped systems. To accomplish this, impervious surfaces were reduced to 11% less than a traditional street, provided surface detention in swales, and added over 100 evergreen trees and 1100 shrubs. Two years of monitoring show that SEA Street has reduced the total volume of stormwater leaving the street by 99%.

Shotwell St.



Project: Shotwell Model Sidewalk

Clients: DPW, PUC, PlantSF Location: San Francisco, CA Date: March 2005 Size: 1 Blocks

Typologies Used:

Benefits:





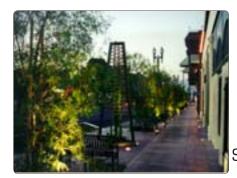


Description:

This project was installed by removing significant portions of formerly existing concrete sidewalks, it demonstrates one approach to reducing storm water loads on the city's combined sewer system. Instead of entering the sewer, rain water is now permitted to permeate the exposed soil and nourish plants. Plantings were undertaken during the wet season and no irrigation is provided or required.



STREET GREENING TOOLS











Sidewalk Planting



Crosswalk



Bicycle Lane



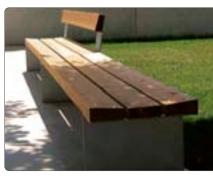














Underpass Lighting

Sidewalk Bench

Traffic Circle

Typologies



Water Treatment

Bike Rack



Median

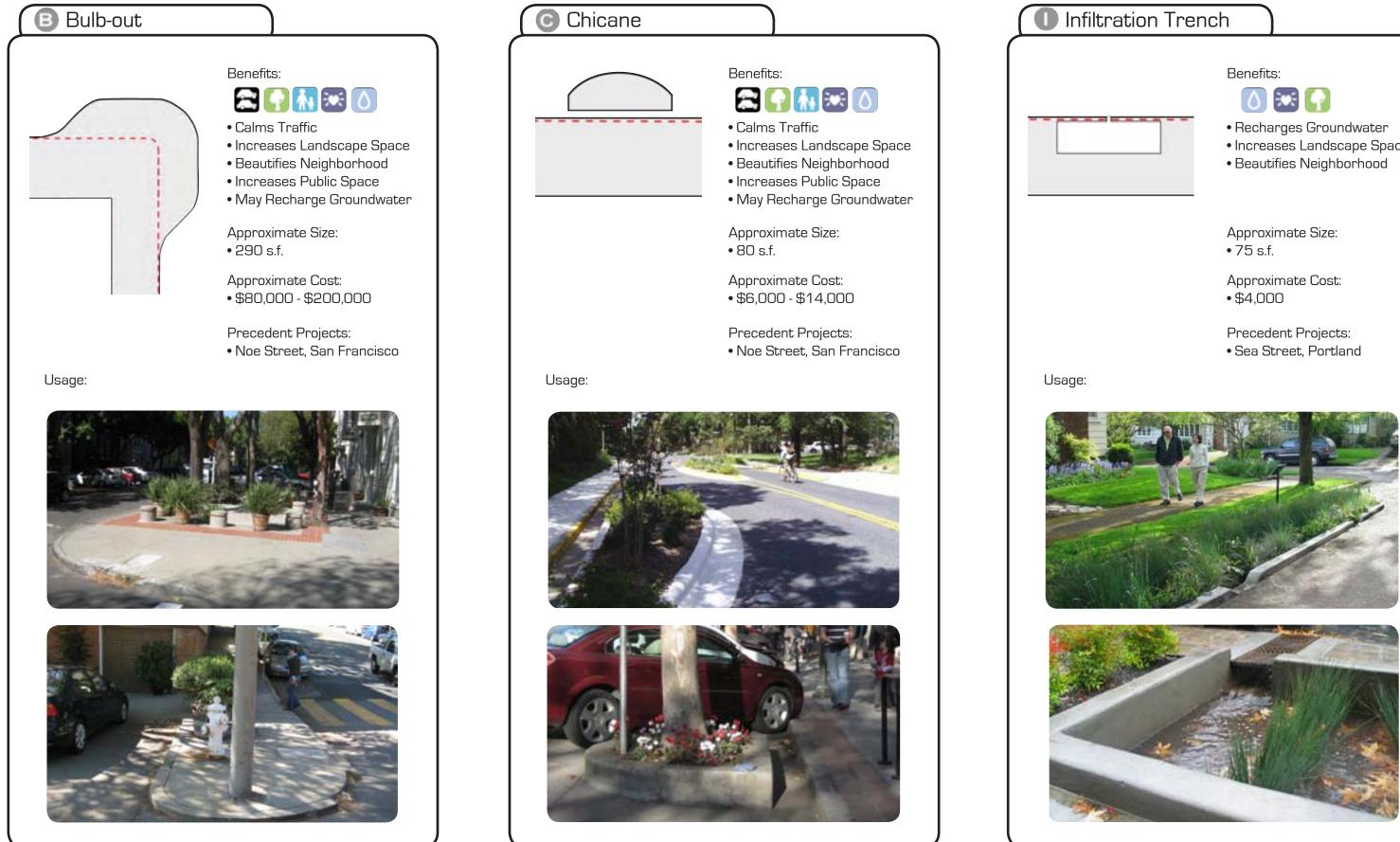
Chicane

Street Paint

Bus Shelter

Traffic Table

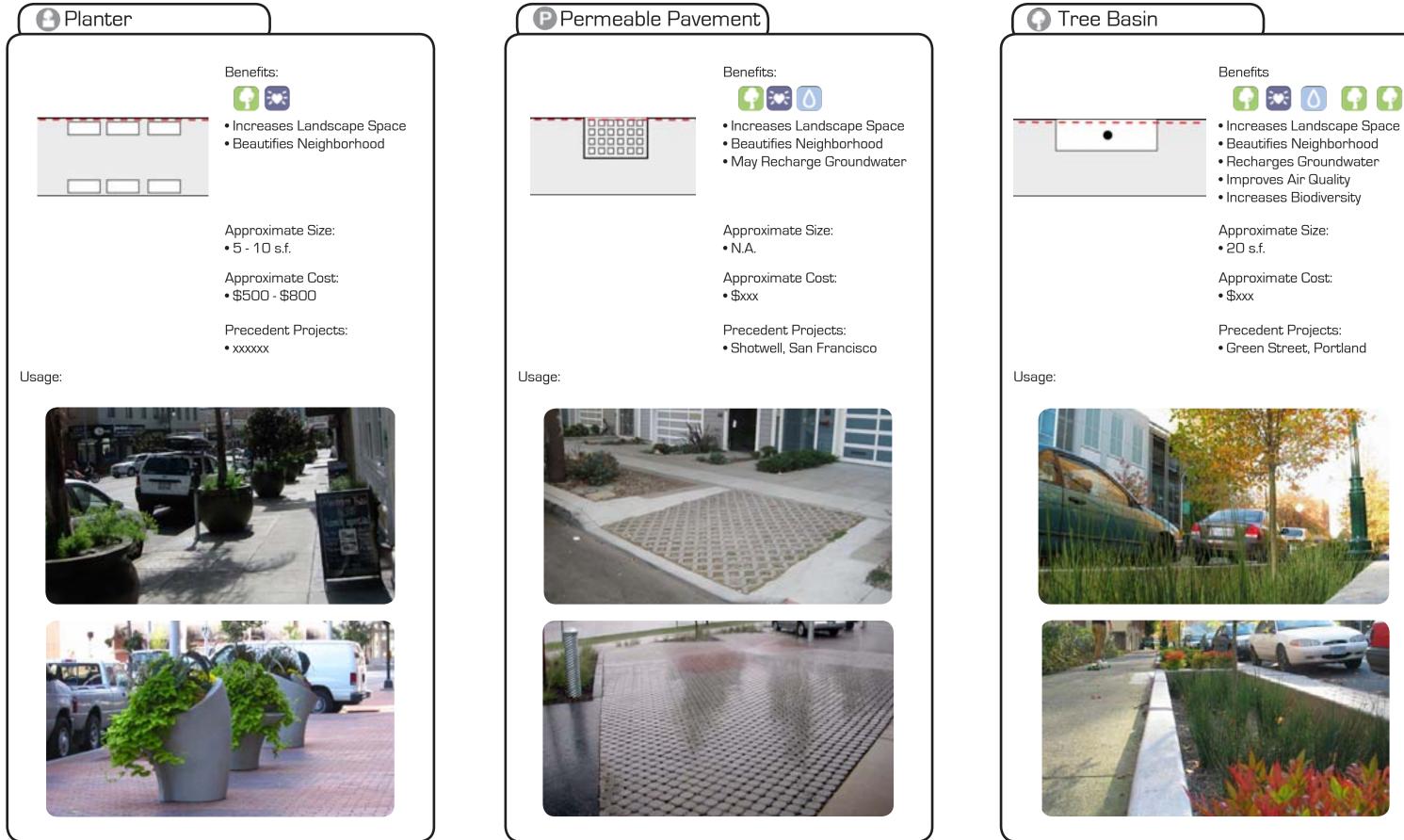
TOOLKIT





- Increases Landscape Space

TOOLKIT





ANALYSIS - Existing Conditions



Over Head Power Lines



Cracked Sidewalks



Little to no Street Vegetation



Popular Truck Route

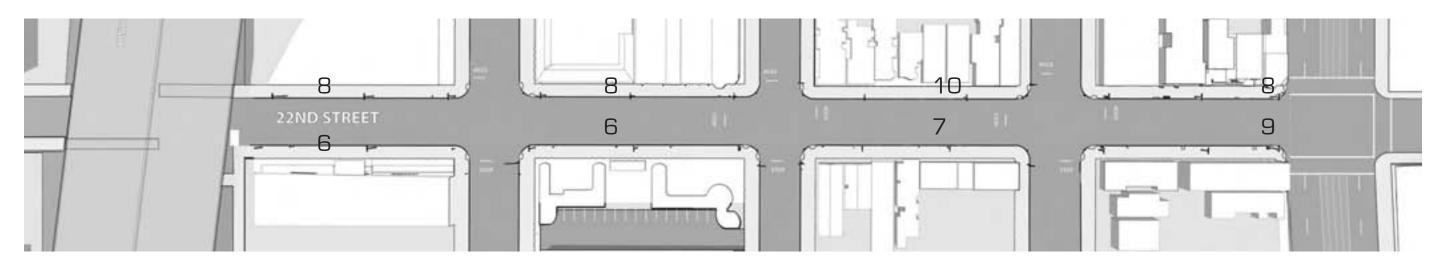


Bird's Eye View

ANALYSIS - Existing Conditions



Parking: 59-62 spaces Road Space: 54,600 sf Public Space: 31,200 sf Landscape Area: 620 sf



Existing Plan



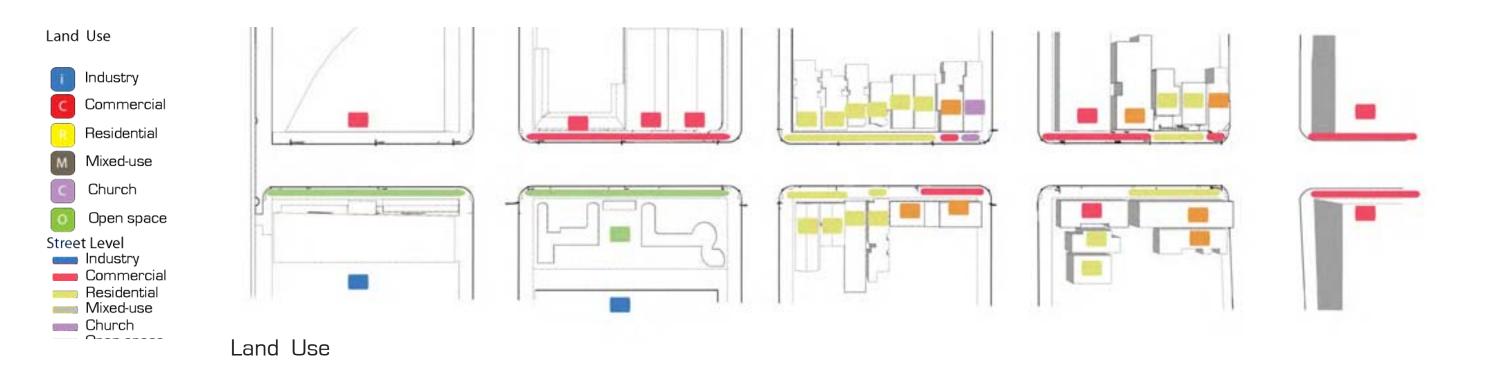
Aerial View

Existing Spatial Conditions

QA.

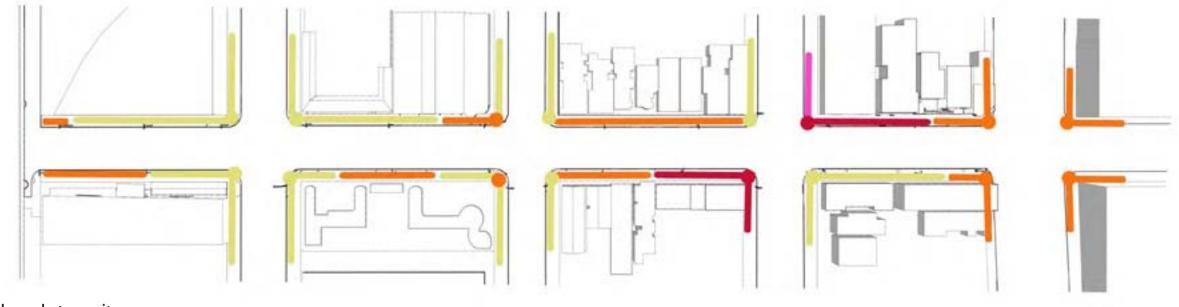
Parking Spaces
Road Space
Public Space
Landscape Area

Dogpatch/22nd Street Greening ANALYSIS



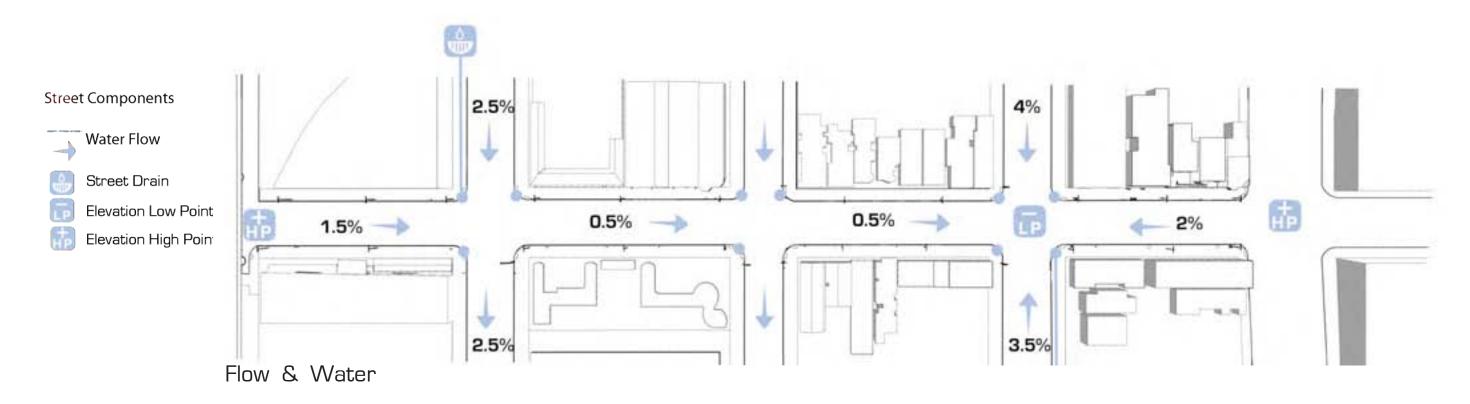
Use Intensity

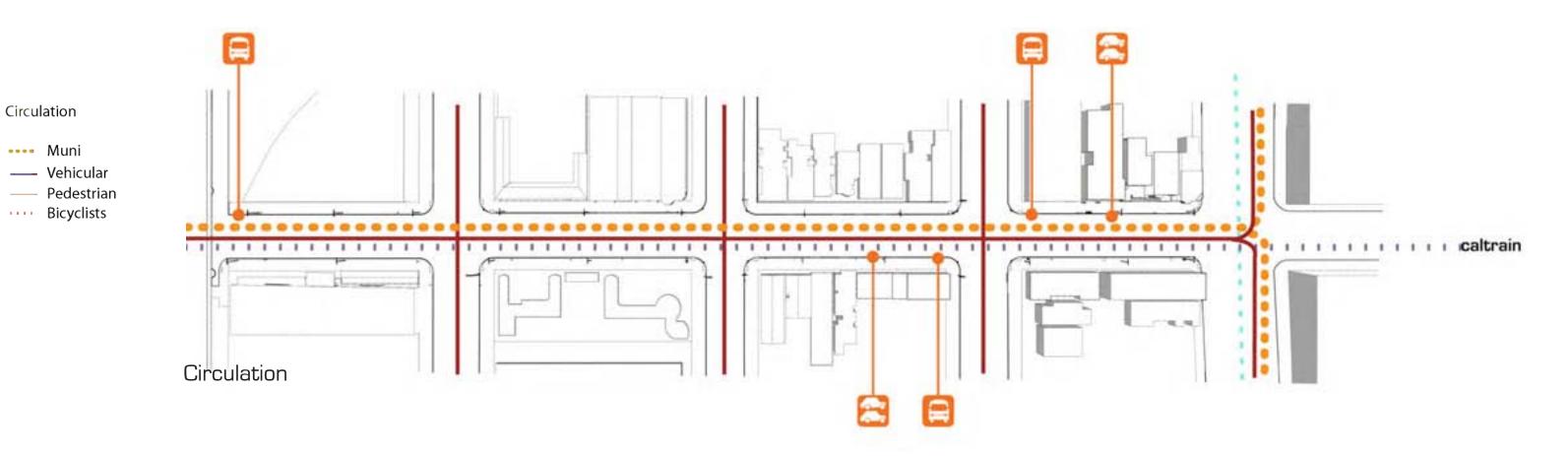




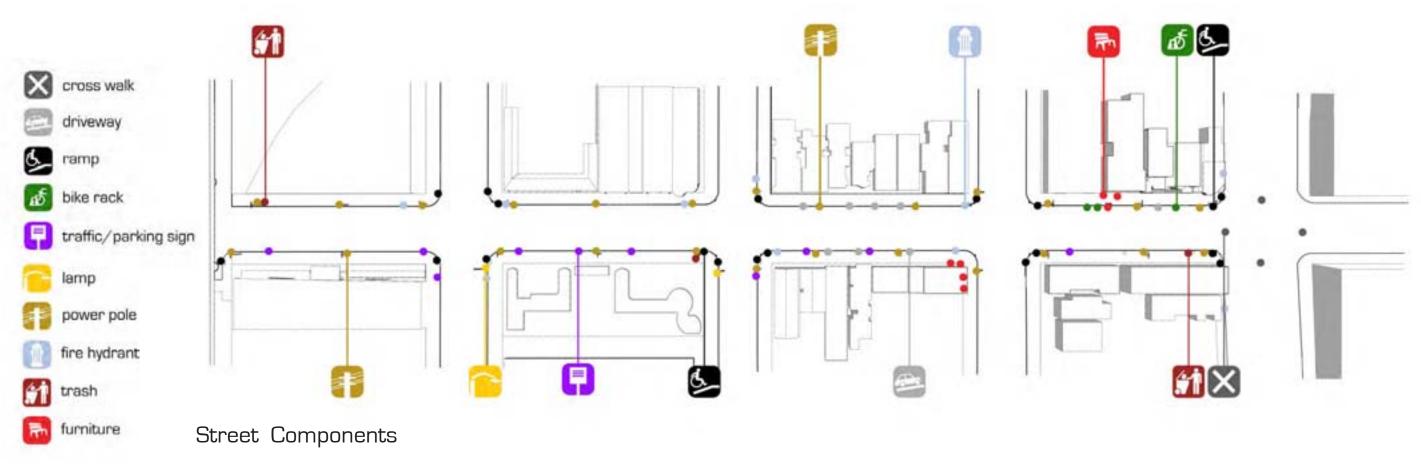
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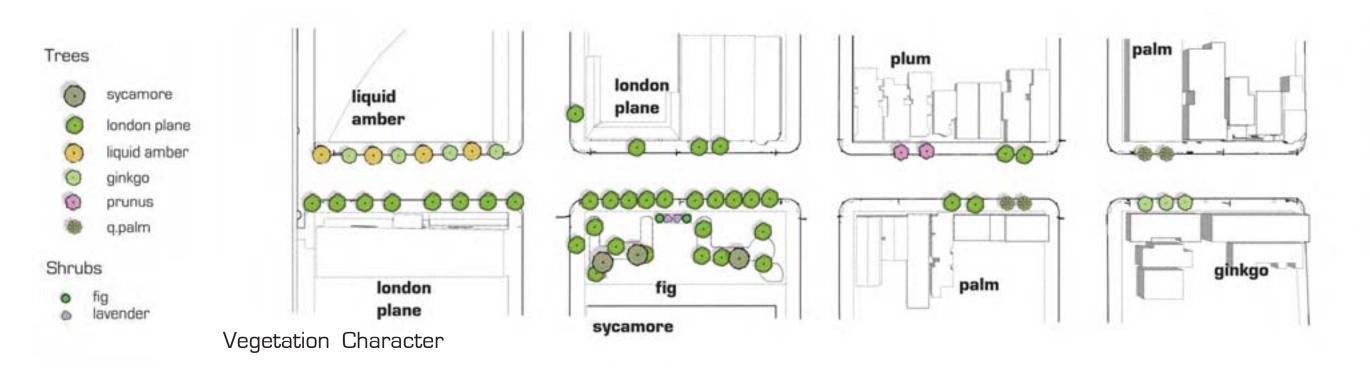
Dogpatch/22nd Street Greening ANALYSIS





ANALYSIS

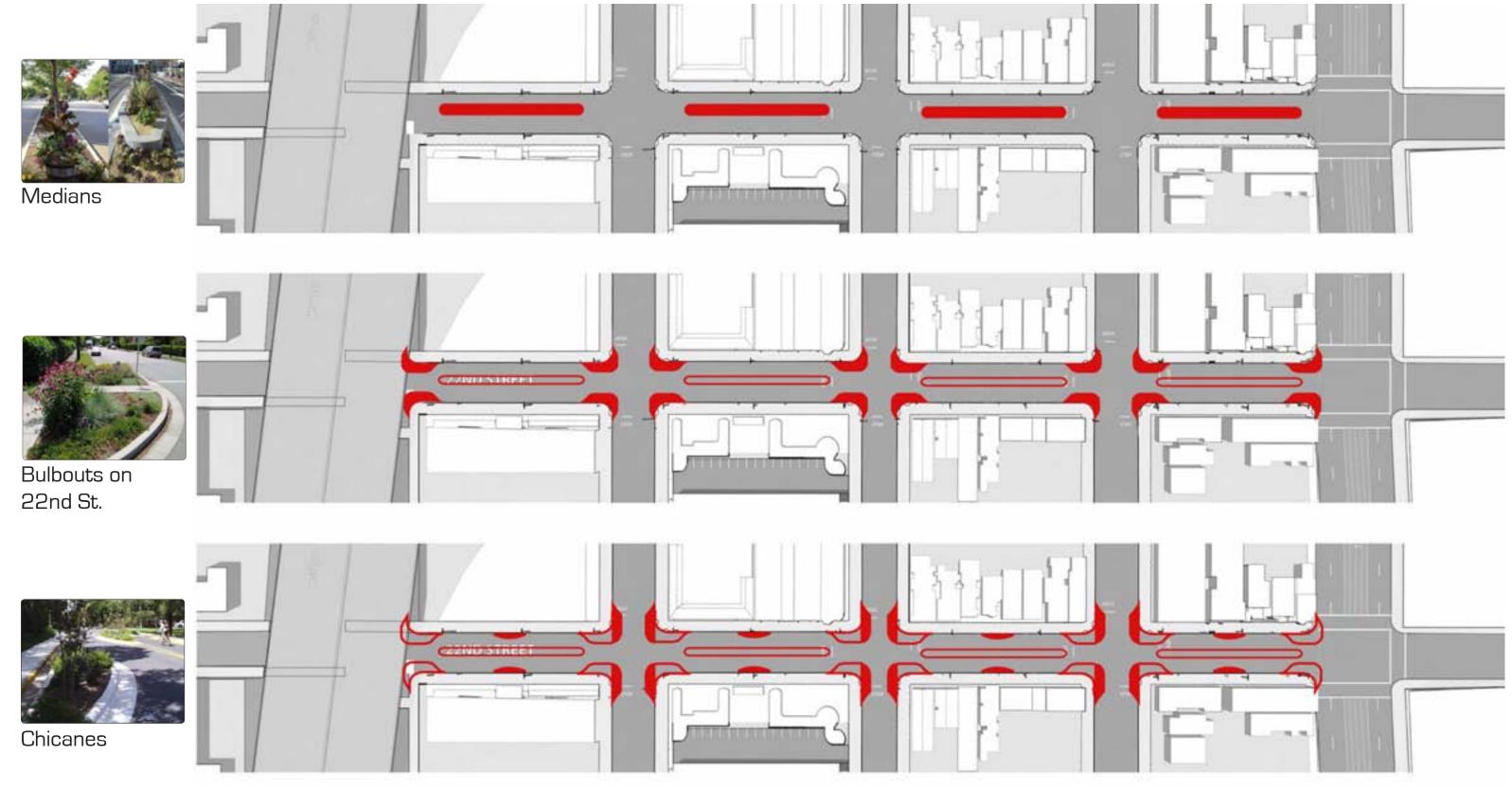




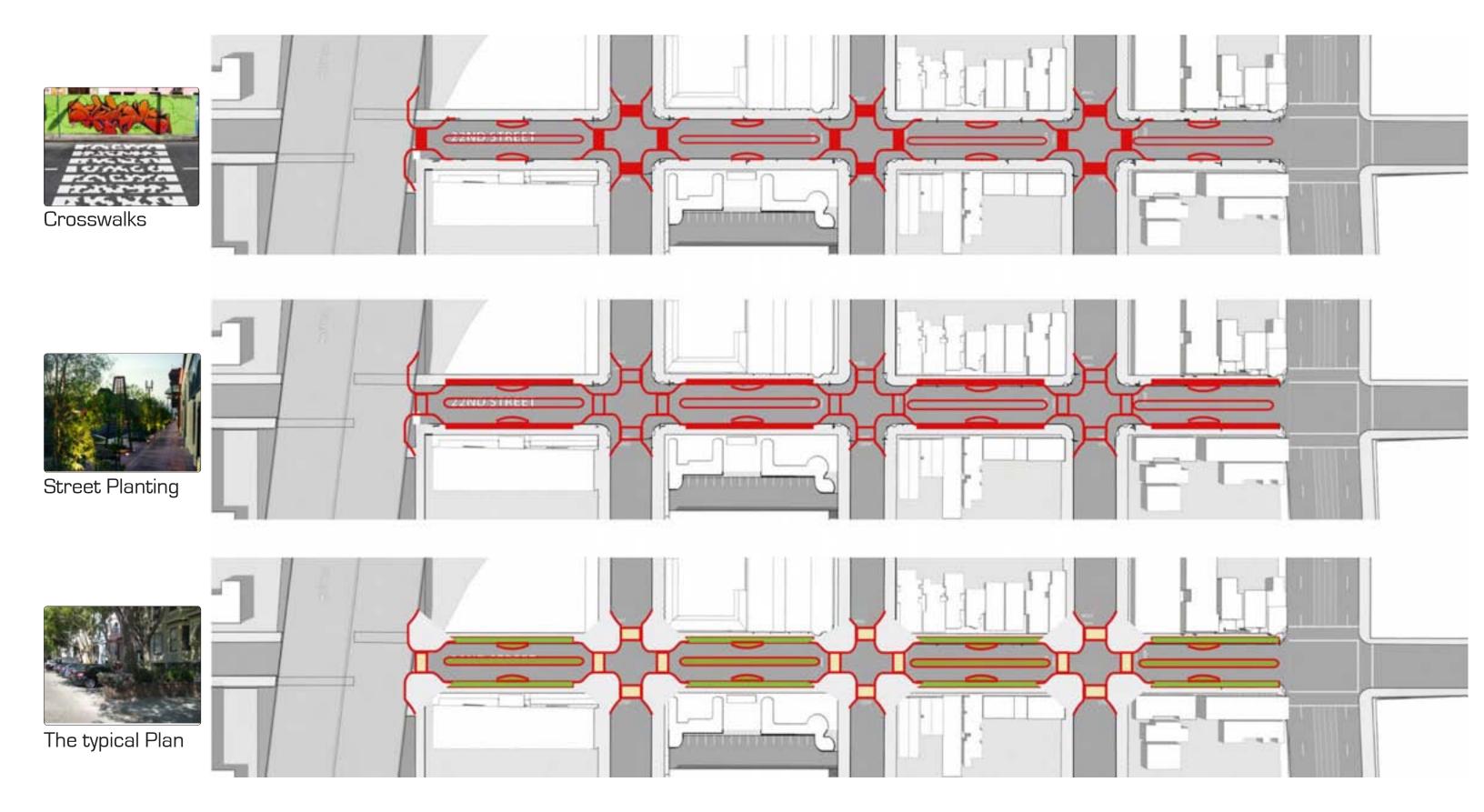




TYPICAL GREEN STREET PLAN



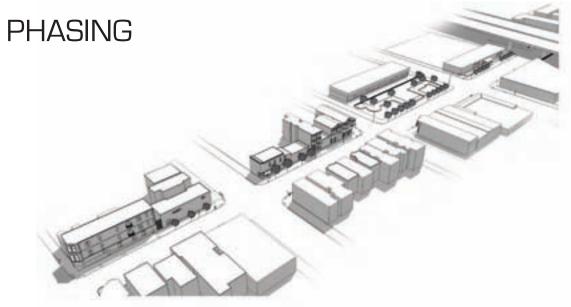
TYPICAL GREEN STREET PLAN

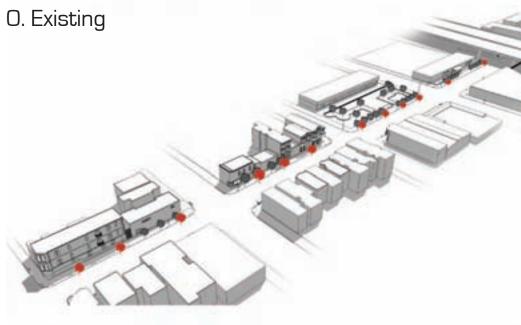


Dogpatch/22nd Street Greening ANALYSIS



An atypical plan

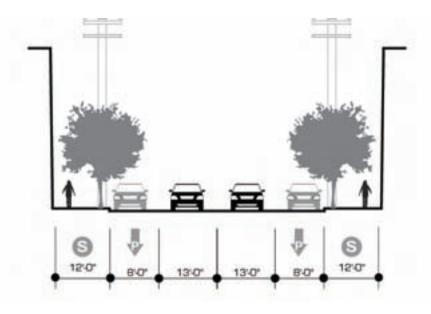


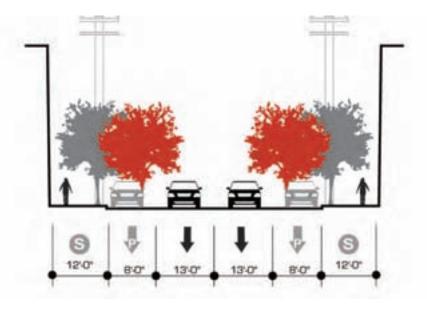


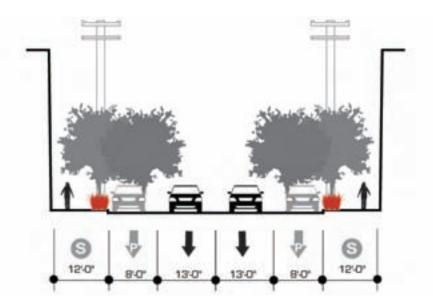
1. Trees between Parking Spaces



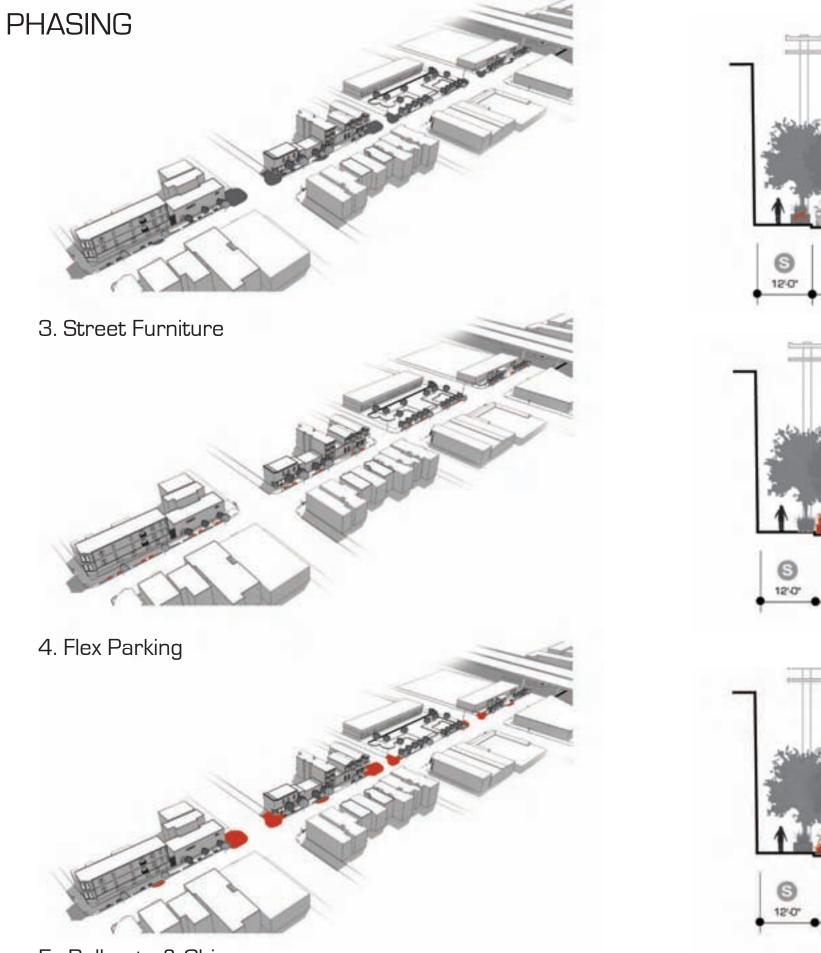
2. Sidewalk Planting



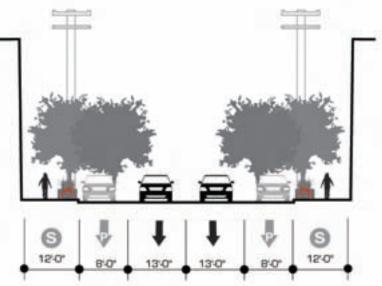


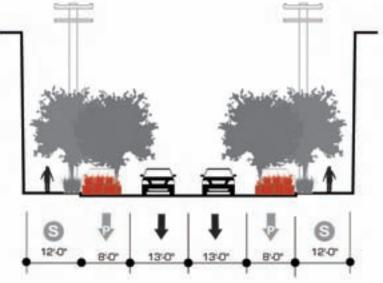


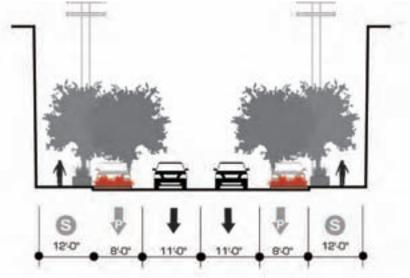




5.. Bulbouts & Chicanes









MASTER PLAN - Perspectives, Immediate Greening



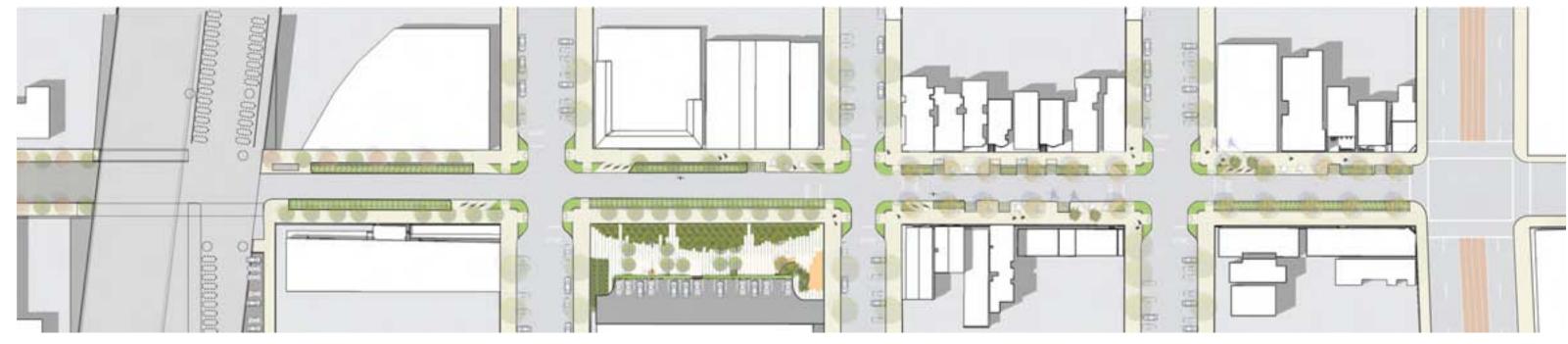
MASTER PLAN: Partial Greening



Chicanes and Bulbouts, 0-5 years



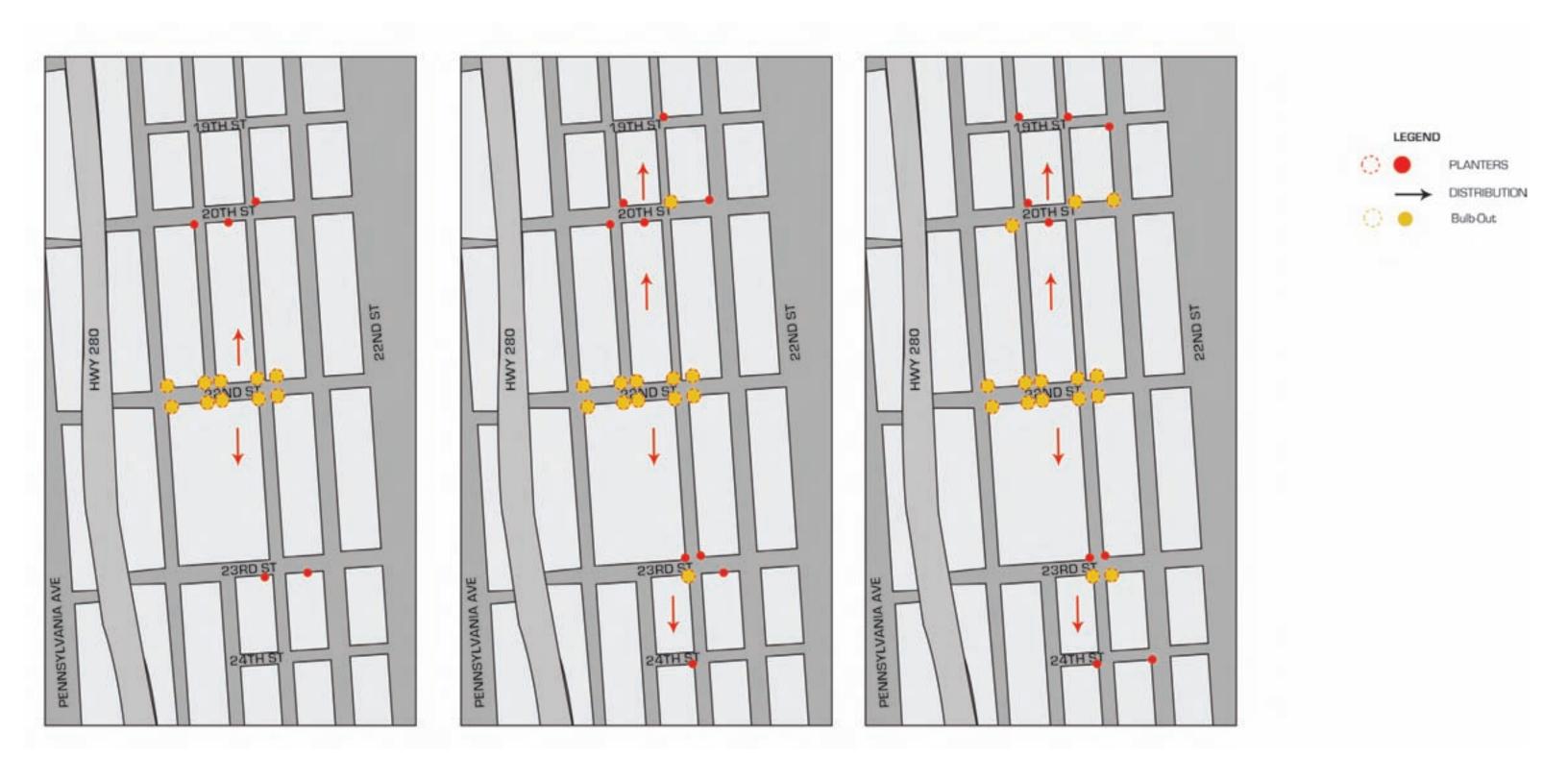
MASTER PLAN: Total Greening



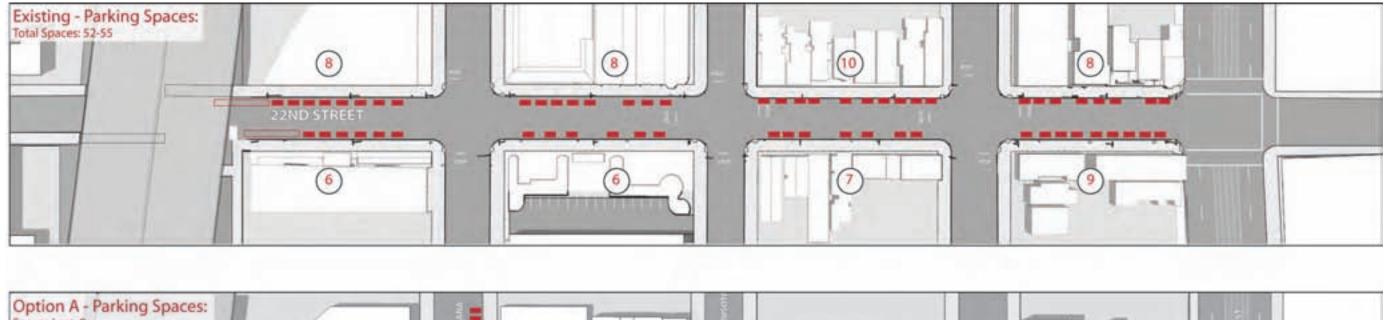
Continuous Sidewalk Extensions, 10-20 years

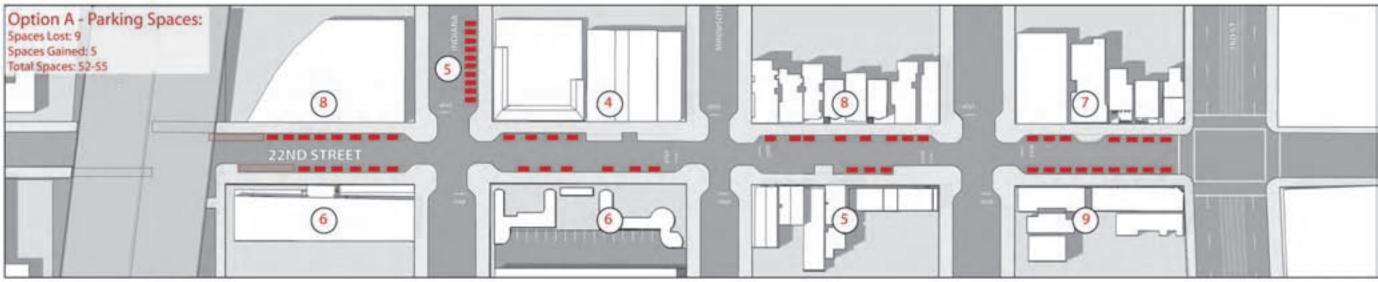


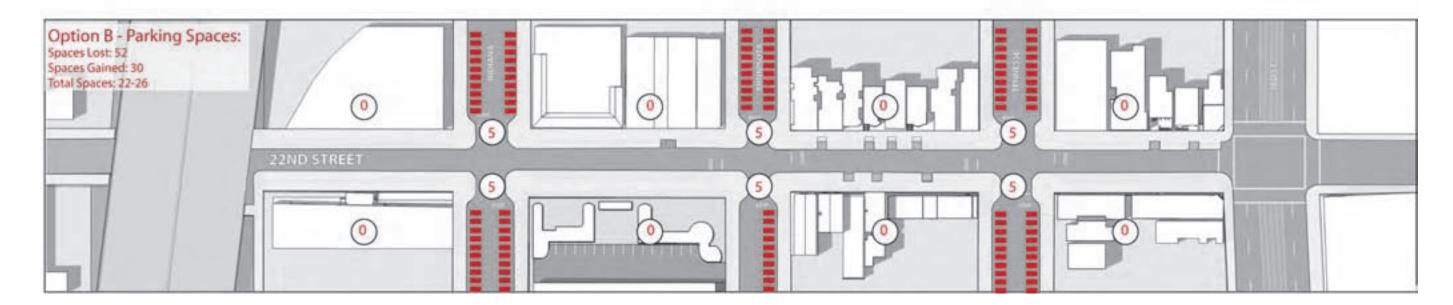
MASTER PLAN - Distribution



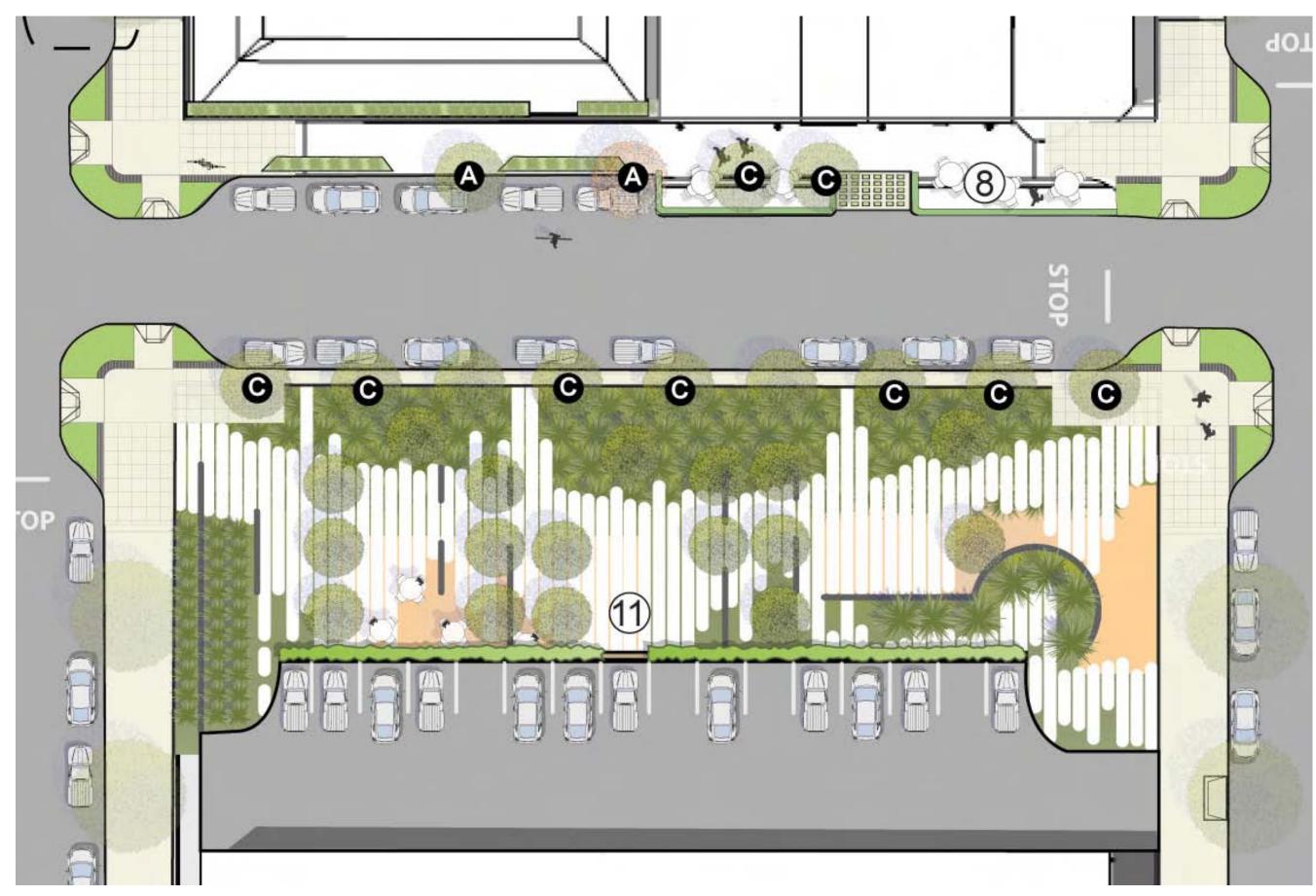
MASTER PLAN - Parking Plans







MUNI PARK



MUNI PARK - Perspective

