Censor booklet



Diploma Oslo School of Architecture and Design, spring 2018 Astrid Fadnes

supervisors: Tone Selmer-Olsen, Sabine Müller, Vibeke Jensen

diploma title: Wall Spaces

location: São Paulo, Brazil

Content

- 5 introduction
- 6 project area
- 8 research: The wall
- 18 research: The street
- 26 Project: Wall Spaces

site

process

proposals

site plans and sections

model photos

illustrations

48 references and litterature



introduction

Cidade dos Muros, «City of walls», is one of São Paulo's nicknames. The project Wall Spaces explores how walls and fences can enrichen both sides of a wall and how public spaces could be implemented.

São Paulo lives up to its nickname: since the 1980s, extensive construction of walls and fences are creating a physical separation between buildings and the street, between the private and the public. Walls have become a distinctive feature of the city's urban morphology and has consequently left the city's urban spaces diminished and deteriorated. Through an analysis of existing walls and a strategic proposal, the project investigates the potential of the wall not as a separation barrier, but rather as a boundary where encounters may take place.

In one research part and one project part, the project focuses on a chosen central street and area in São Paulo.

The research investigates the quantitative and qualitative characteristics of walls and fences in São Paulo, gathered in maps, diagrams and a catalogue of selected walls. The other part of the research looks into the street as public space. The project proposal is a strategic one, exemplified on a pilot site.





Avenida Angélica and Higienópolis neighbourhood. Consolação district, São Paulo

Avenida Angélica, street of analysis

Metro station

Metro in construction (2018)



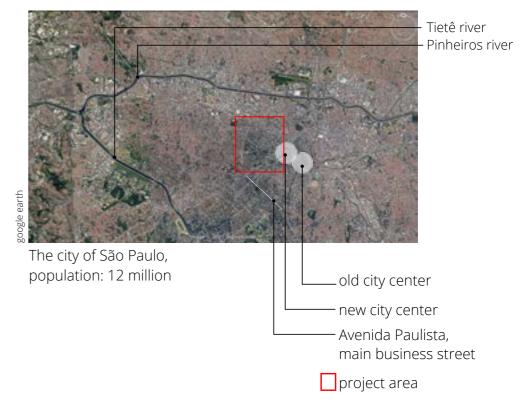




Wall morphologies in area



The metropolitan region of São Paulo, population: 21,2 million



- 1 Pilot site for project proposals
- 2 Synagogue
- 3 Higeniópolis Shopping mall (1999)
- 4 Church
- 5 Brazilian Art Museum
- 6 Buenos Aires Park (1937)
- 7 Police Station
- 8 Architecture Faculty, São Paulo University
- 9 MacKenzie University (1968, originally MacKenzie College, founded in 1874)
- 10 Avenida Paulista, main business street



The wall

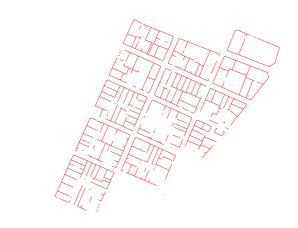
Both the historical settlement development and an increse in violent crime and fear of it can explain part of the reason why walls and fences have become such a distinctive part of São Paulo's urban morphology. The walls and fences are implemented both around housing blocks, offices and commercial and public services.



Map of walls, Consolocão District, central São Paulo and wall morphologies.



"The Fragmented"



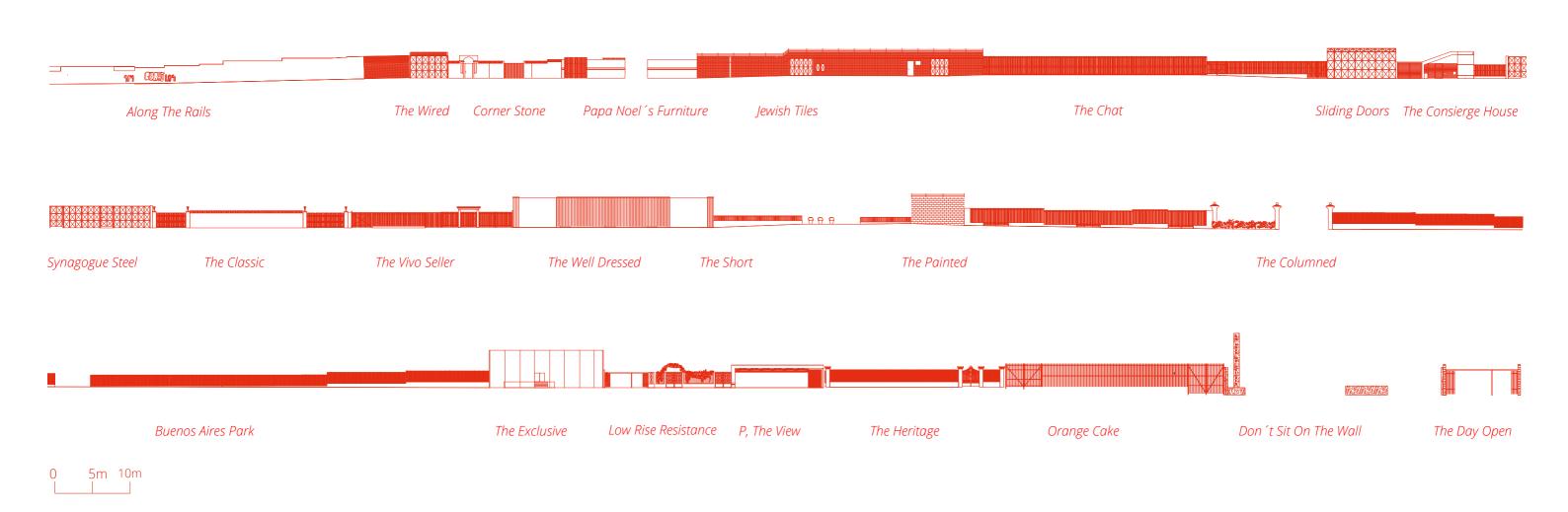
"The Enclosed"



"The Curved"

Wall Catalogue

How have people appropriated the walls in São Paulo, how are they used, what are they made from, what is "behind" the fence and what condition do the walls create? 24 walls and fences along Avenida Angélica have been collected and evaluated in a catalogue.



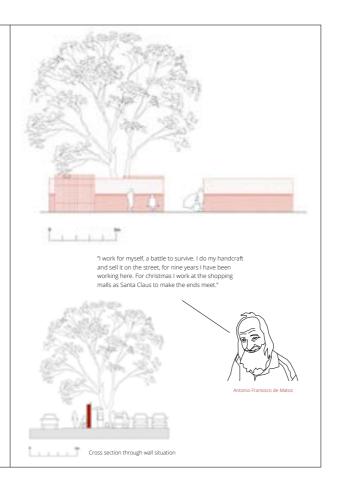


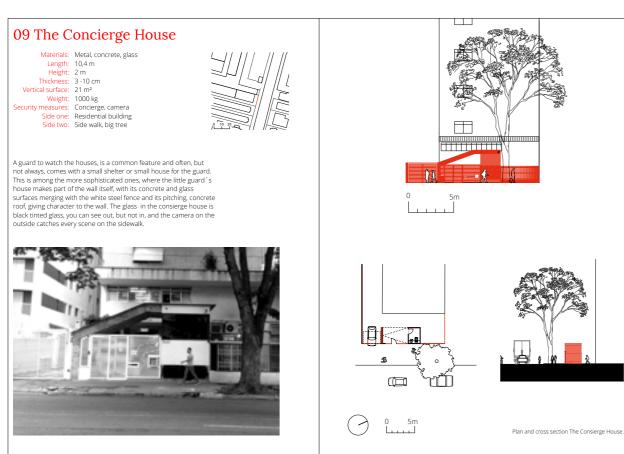
Materials: Stone, metal, concrete

Materials: Stone, metal, concrete
Length: 18 m
Height: 2,5 m
Thickness: 10 cm
Vertical surface: 39m²
Weight: 25 344 kg
Security measures Camera
Side one: Carr parking
Side two: Furniture sale, side walk, street

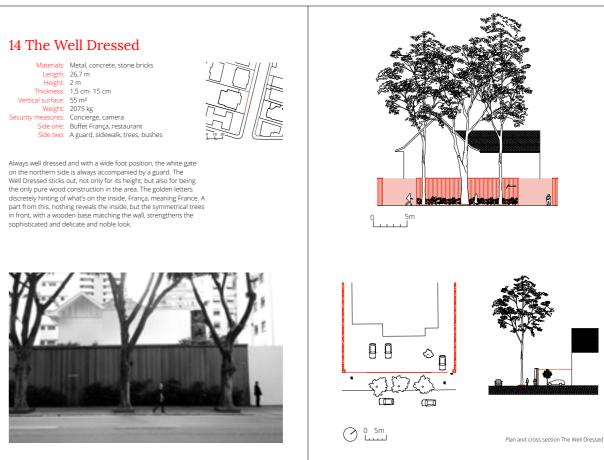
The Papa Noel's Furniture is named after one of the daily users of the wall, Antonio Fransisco de Matos (and Papa Noel, Santa Claus, on the malls every Christmas) who daily occupies a meter of the three and a half meter wide sidewalk for his making and selling of furniture and toys. The Papa Noel´s Furniture is split in three part, one part is a metal gate, mostly closed, and the concrete part is split in two with a sliding metal rod gate, open on day time for the cars to pass and park on the parking lots. The paint one lower stripe in black or blue and one thinner stripe in vellow.

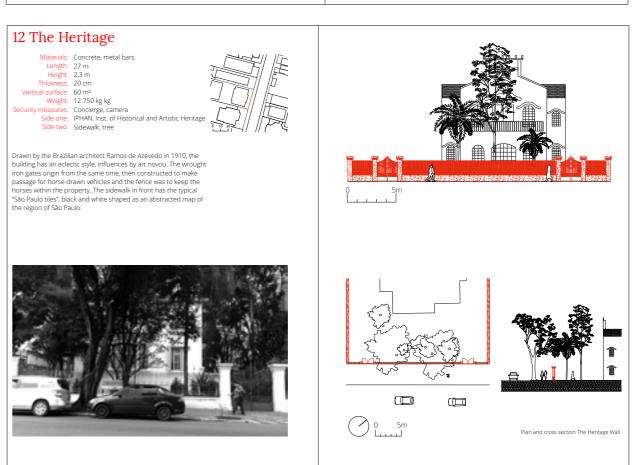


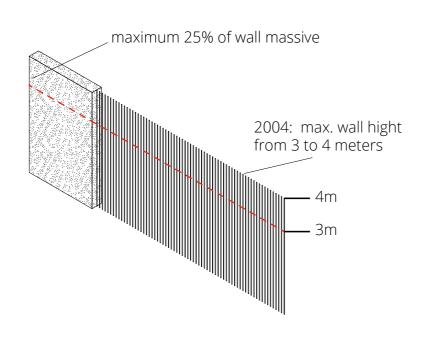


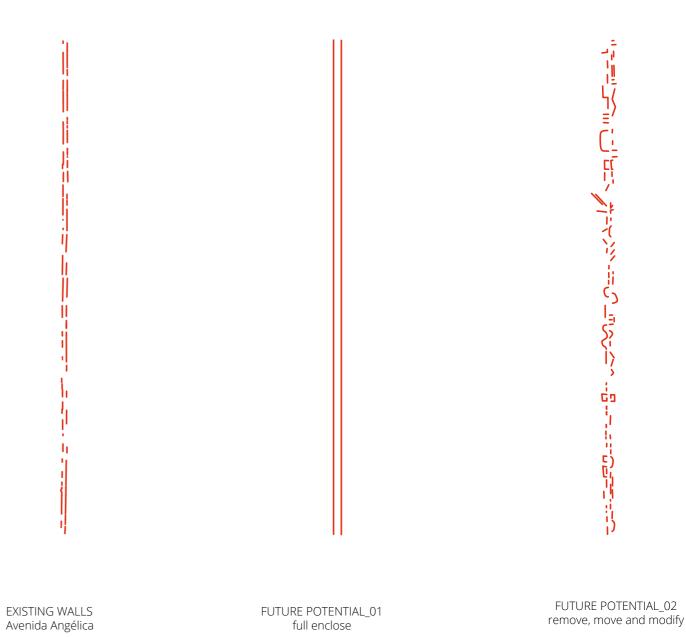


Extracts from Wall Catalogue.



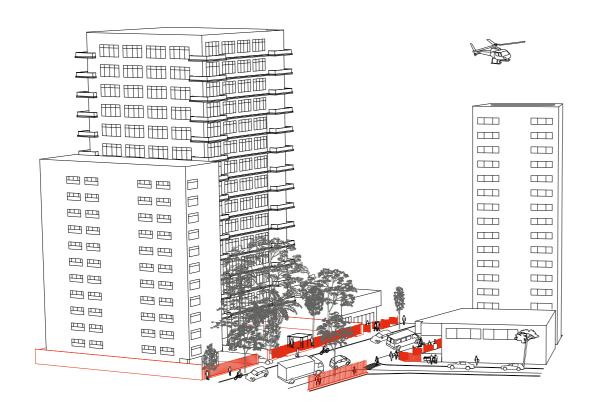






In 2004, the permitted height of the walls and fences in São Paulo, increased from 3 to 4 meters. In 2015 however, the city's Master Plan (Plano Direitor, 2015) only allows the wall to be maximum 25% massive, the rest should be transparent, as metal grids or glass.

Diagram, walls along Avenida Angélica.

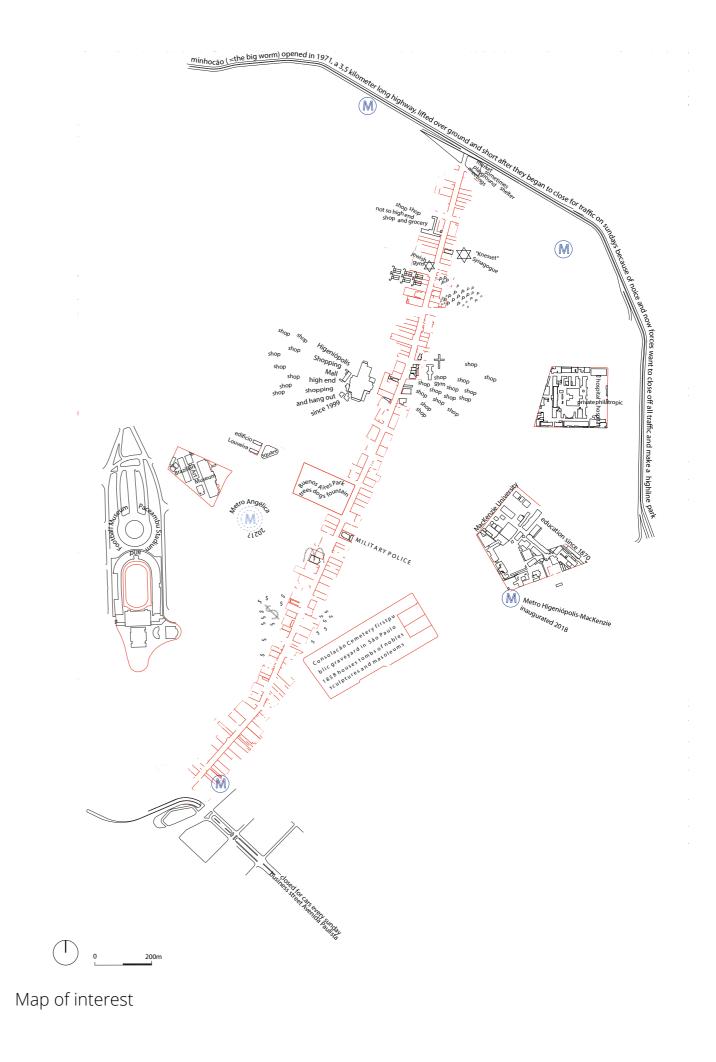


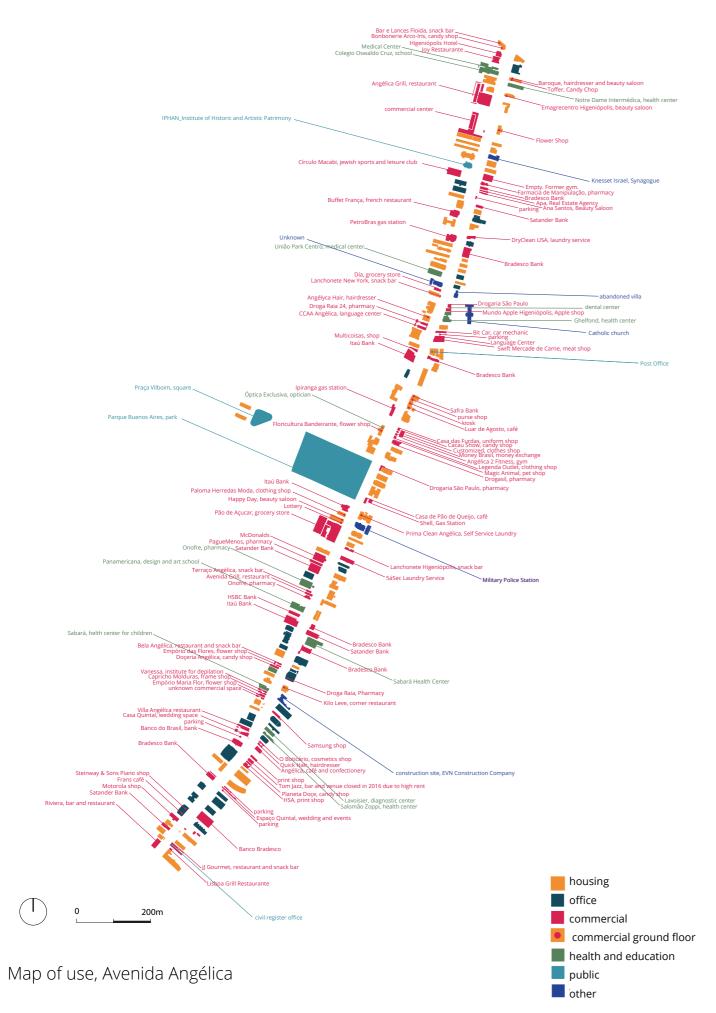
The street: Avenida Angélica

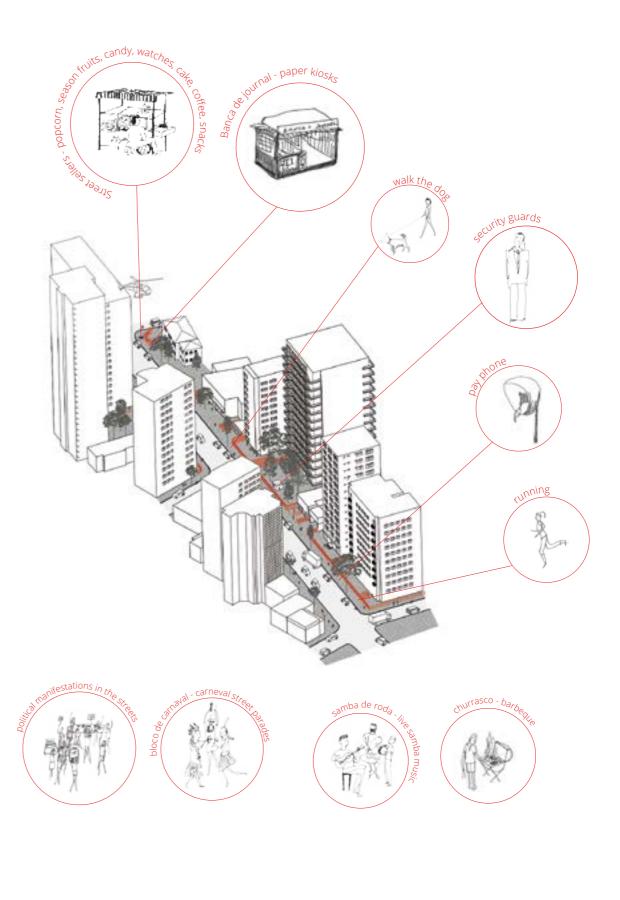
Avenida Angélica stretches through the central neighbourhood of Higienópolis, and the street makes out an important transport route between the city centre and São Paulo's main business street Avenida Paulista. 2100 cars pass per hour in rush hour and it's also a busy commuting route by foot and bus. Higeniópolis has for long and still is regarded a noble area in the city, but also neighbours less valuated and central areas. For the wide range of housing blocks, offices and commercial services and the demographic and social mix, Avenida Angélica is in the project considered as representative for São Paulo.

Only around 12% of ground floor is accessible for the pedestrian - and there is no public space above or under ground level. Underground level is extensively used for car parking and many roof tops in the area are equipped with helicopter parking.









Map of use, Avenida Angélica



Historic map of Higienópolis, 1930. The map shows the historical property structure, typically narrow and deep, tracking back from the colonial time, referred to as a "typical São Paulo lot". Avenida Angélica and project's pilot site in white.

VILLA

1890-1910



Commercial and private use originally housing for the elite and noble.

Eclectic and art noveau style, 1-3 floors. Low fence.

COMMERCIAL LOW RISE

1950s - today

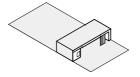


Banks, shops, medical centres, parking, cafes, snack bars, pharmacy.

1 floor (rearly 2). Some with fence and day open gates.

PARKING LOT

1950s - today



Commercial parking lots

Occupy the few open plots in the city.
Often enclosed by painted walls.

HOUSING BLOCK

1920-1980+

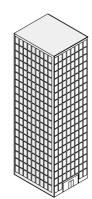


Residential

Spacious apartments, pilotis and garden, roof top gardens, modern ideals and materials.

OFFICE HIGH RISE

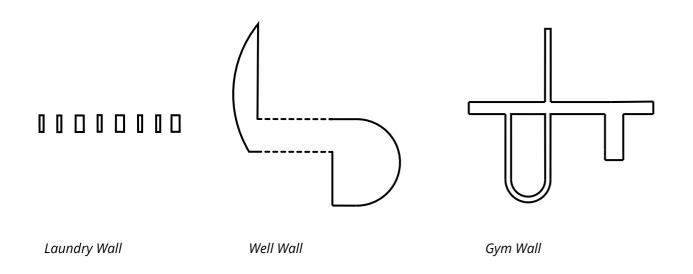
Mid 90s - today



Commercial offices, few with service/ commerce on ground floor

Concrete and glass, Helicopter landing on roof, parking garage.

Five main building typologies found along today's Avenida Angélica, time period, use and characteristics.

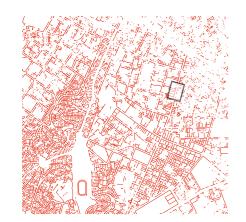


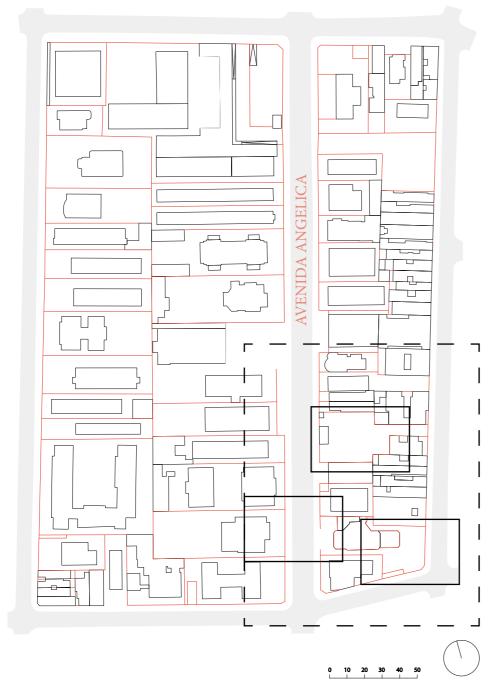
Project: Wall Spaces

The project Wall Spaces investigates through three new wall types, how the wall can have both a social and technical purpose, rather than only a seperating function. The three walls suggest public use and activity and implement new use and re-use of water in the city.

São Paulo is one of many cities suffering from a great water deficit. The latest water crisis in 2016 led people to drilling for wells on their private property, as the city covers a big network of rivers. The projects suggest public wells, aims to increase the potential of rainwater harvesting in the rain season and a potential connection to existing infrastructure.

The project is a strategic one, applicable to different sites and situations. A site in the project area is chosen as a "pilot project".







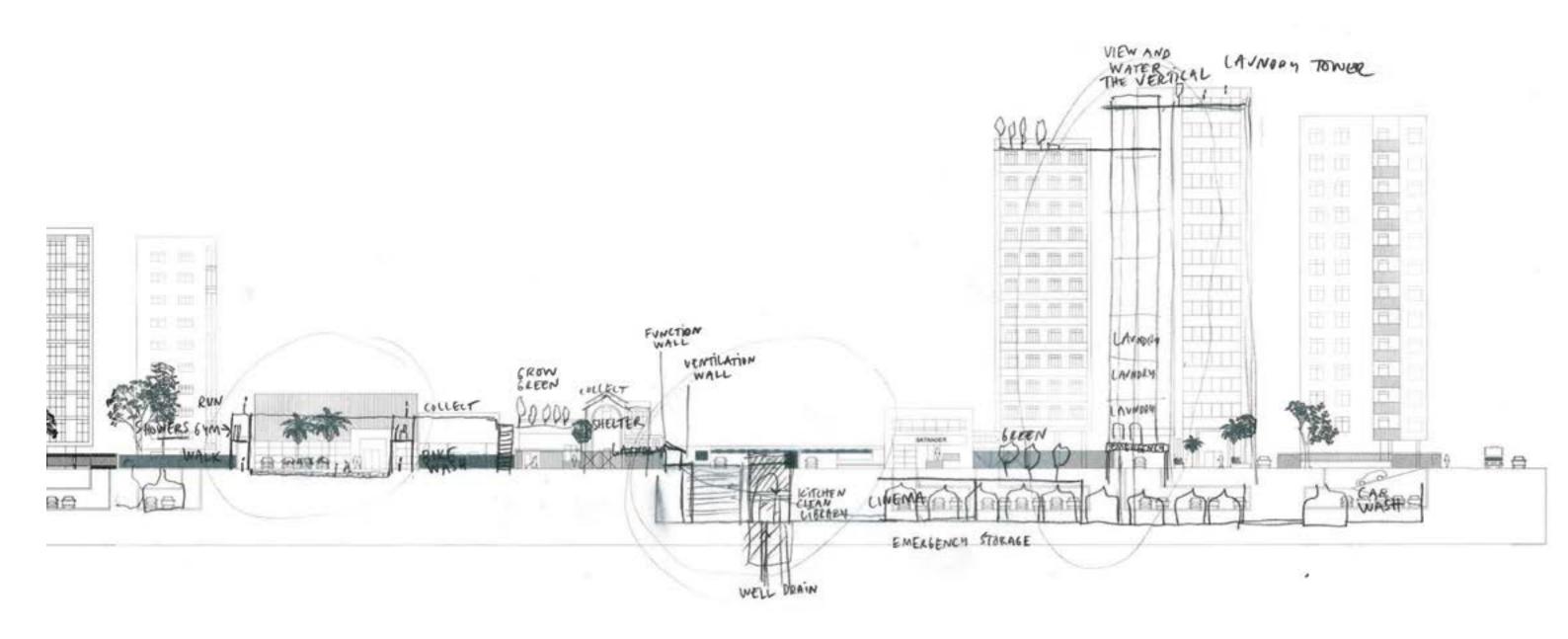
A quarter and three sites within the project area with a wide range in program and typologies is chosen as a pilot site for the project.



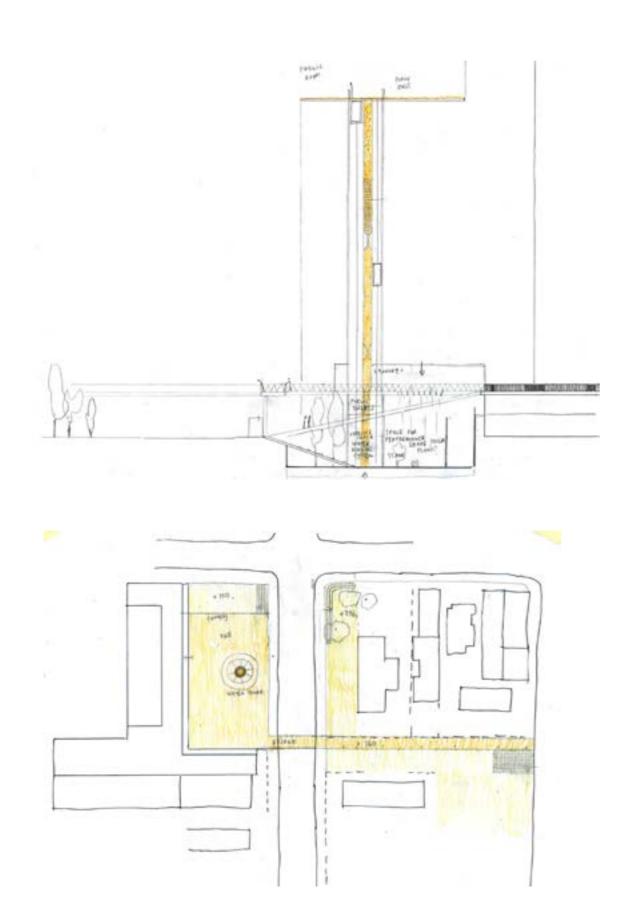
As São Paulo is one of many cities suffering from extensive water deficit, the project aims to explore how water infrastructure can be optimized and implemented in the project proposalts for public spces. São Paulo has a large network of rivers underground. This map shows the ares´s wall and the underground river network. During the latest drought in the city, people started drilling wells on their properties as they discovered they lived on top of rivers.



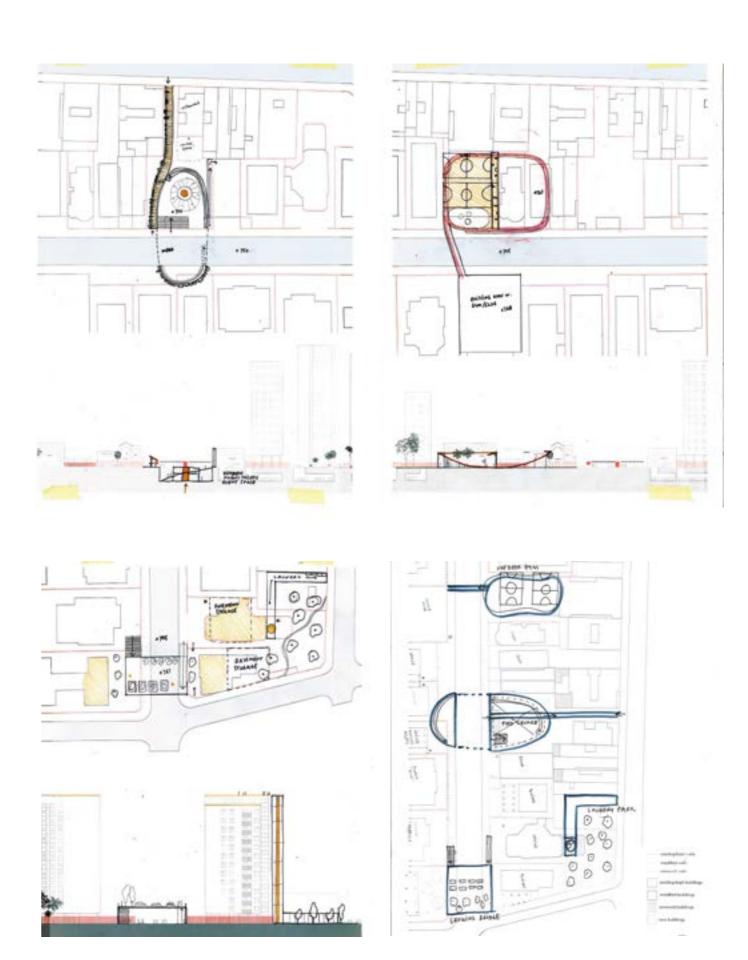
Strategy proposals for interventions, what and why.



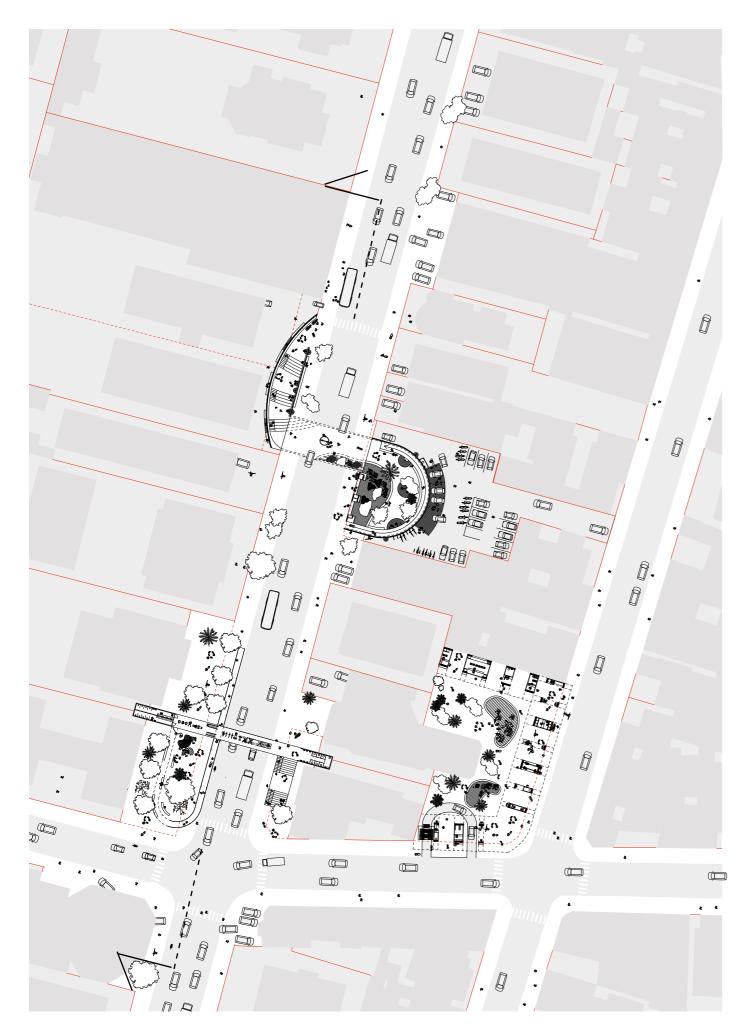
Process: sketches, ideas on working with different levels and programming new walls



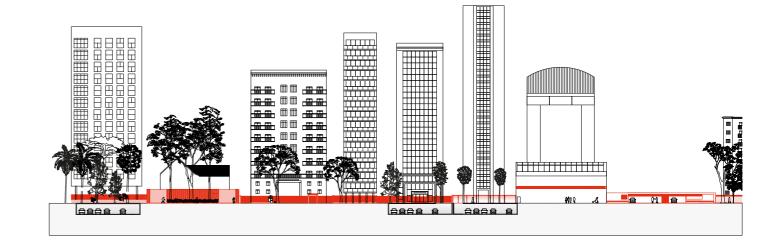
Early sketches on rainwater harvesting and public space.

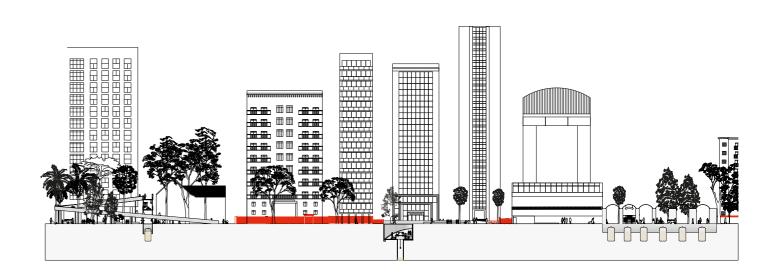


Early sketches on three- four different project proposals for a new "wall", implementing water.



Final project proposals: The Well Wall, The Gym Wall, The Laundry Wall. Situation plan.





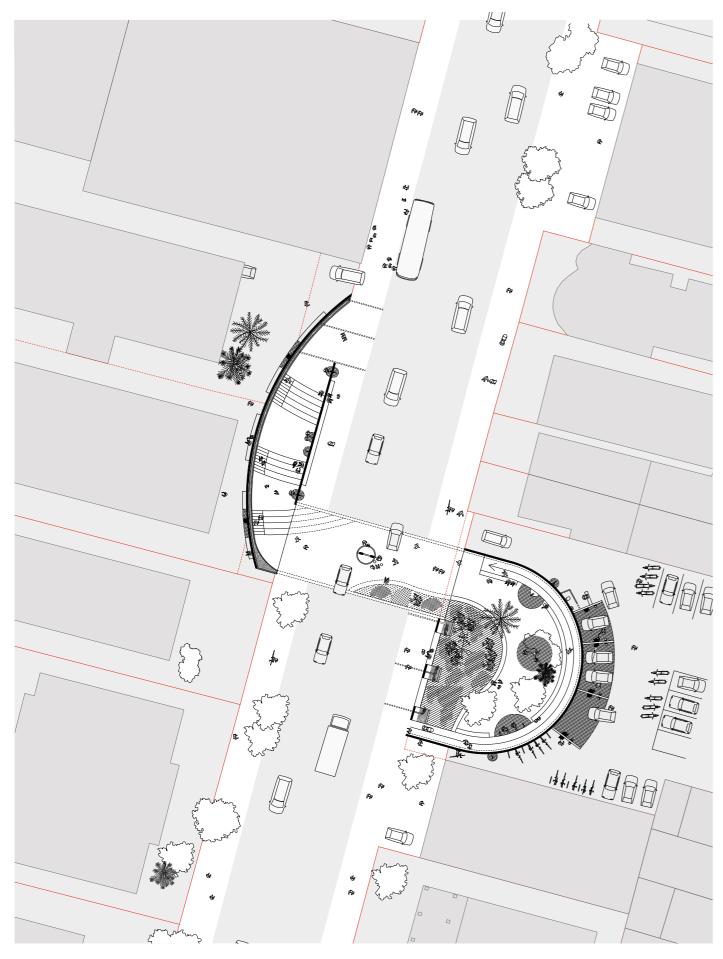
A

Street elevation

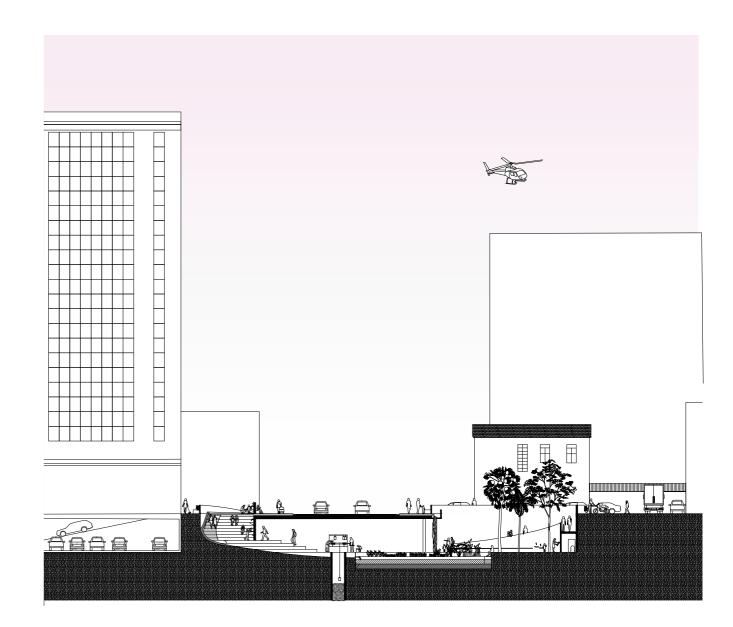
Upper: Existing situation

Lower: The three projects implemented. Laundry Wall is in this elevation implented to a

different site than on situation plan.

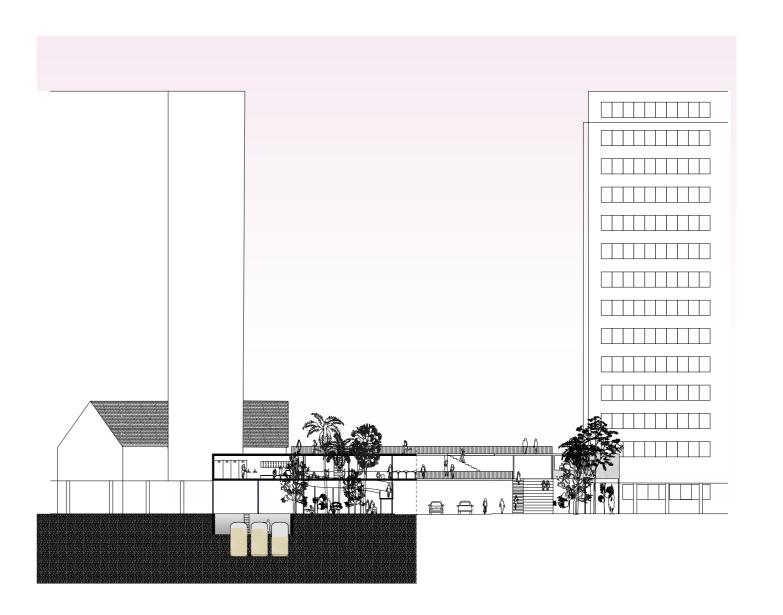


"WELL WALL" Situation plan



"WELL WALL" Section

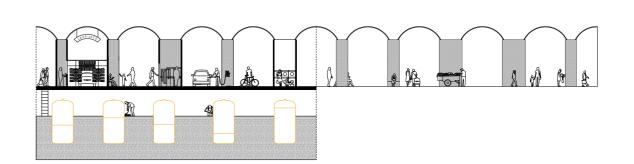


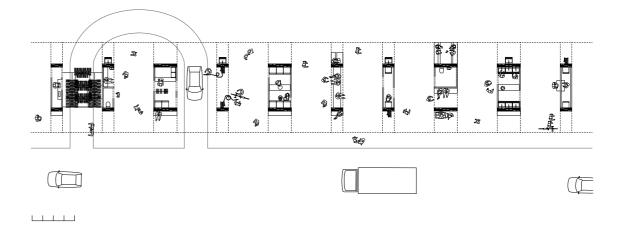


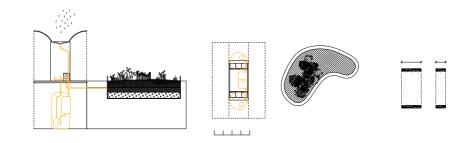


"LAUNDRY WALL" Situation plan









"LAUNDRY WALL"
Section, elevation and concept









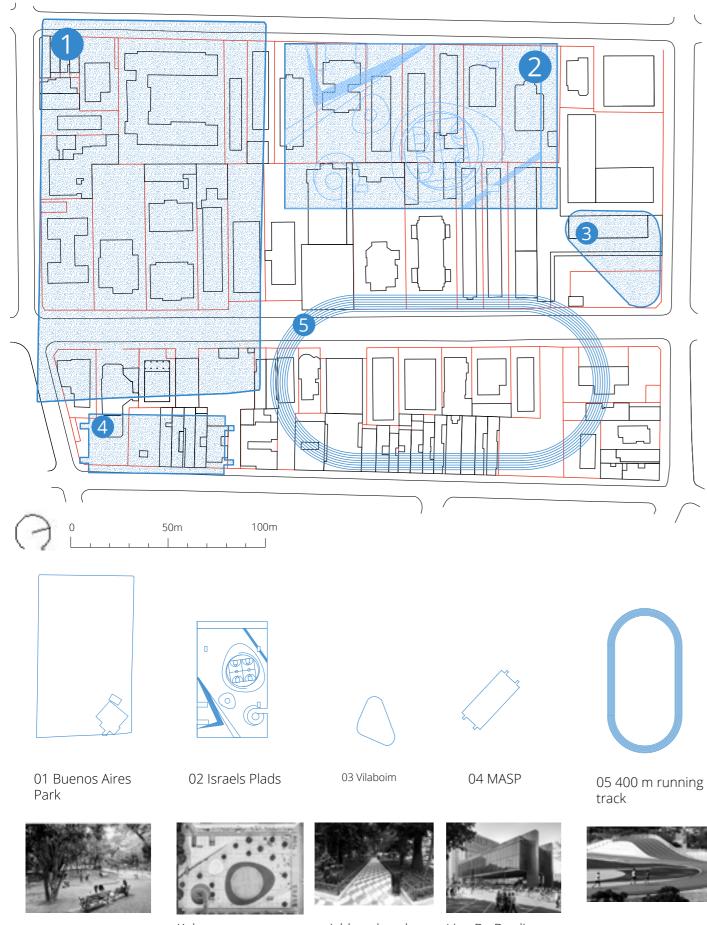
model photos







illustrations: Well Wall, Gym Wall, Laundry Wall.



neighbourhood Lina Bo Bardi, Subarquitectura,

São Paulo

Paulo

square,

Higienópolis São

Key litterature

Book: City of Walls: Crime, Segregation, and Citizenship in São Paulo Author: Teresa Pires do Rio Caldeira

Relevance for project:

The book draws historical and contemporary lines of the urban development of São Paulo and introduces terms as fortified enclaves, aesthetic of security and the organizational pattern of closure of private spaces by walls, fences and monitoring to argue for the characterization of São Paulo as the city of walls. The history and the terms it discusses, are important for the research part of the project "Wall spaces" in order to base the project's new discussions and proposals on existing knowledge and historical traces.

Book: Espaço público e urbanidade em São Paulo (Public space and urbanity in São Paulo)

Author: Mauro Calliari

Year: 2016

Relevance: Contributes with an historical backdrop of development of public space in São Paulo which is useful in order to keep an historical perspective observing today's situation and how public spaces are effected by walls and fences.

magazine: Monolito: Higeniópolis Editors: Agnaldo Farias et.al.

Year: 2014

Relevance: Show the history of the buildings, whereas many were originally built without fences or walls, the residential gardens being open to the street. What was the original idea behind these constructions, it's relevant to know when the fences and walls were added to the construction and property to know how the response on security issues has changed through the past decades.

Reference projects implemented on site to test size.

Copenhagen

48 49

Alicante/Spain