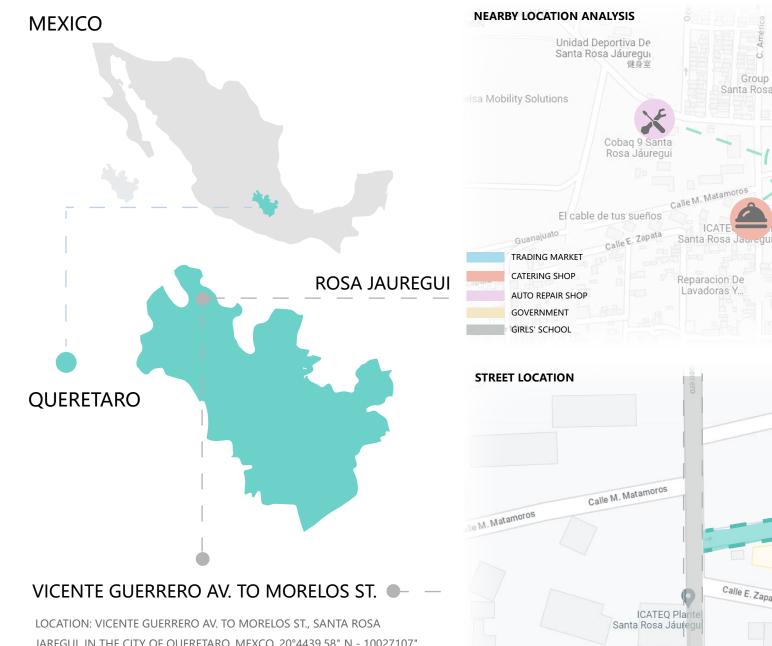


COOLING AGAIN

Santa Rosa Heat Island mitigation strategy

GEOGRAPHICAL LOCATION ANALYSIS



Reparacion De Lavadoras Y.. Rosa de Lima Delegación Santa Rosa Jáuregui 市政厅 16 de Sept Motortransports San José Iturbide Calle E. Zapata Calle E. Zapata JAREGUI, IN THE CITY OF QUERETARO, MEXCO. 20°4439.58" N - 10027107" CHAPAS Y WJOSEFA ORTIZ DE DOMINGUEZ CORNER VICENTEGUERRERO, 76220 QRO. Los Laureles ELEVADORES.

Santa Rosa Jáuregui

Birria Jauregui

Mercado Sar

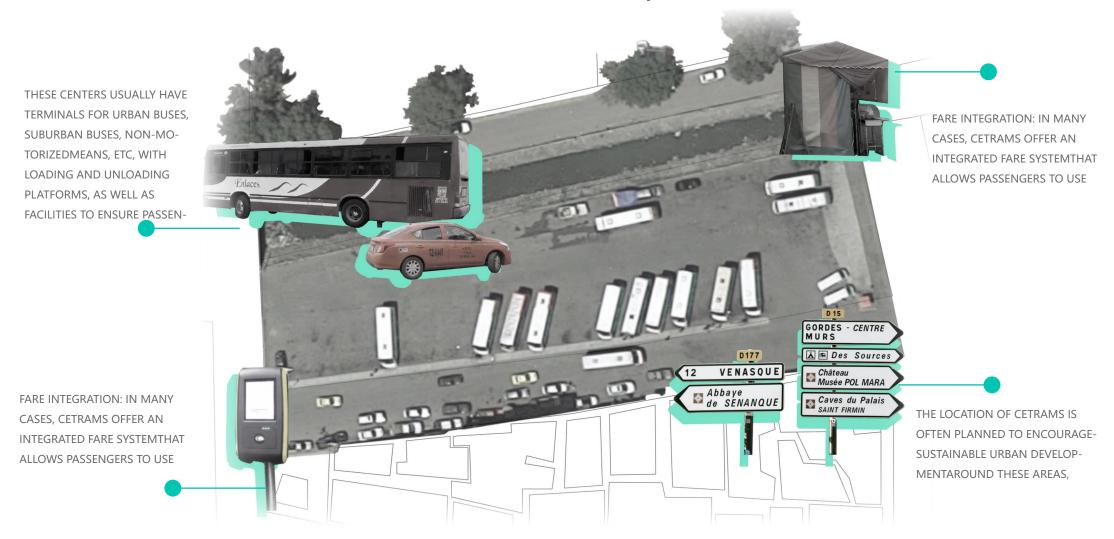
Josefa Ortiz de Dominguez

ELEKTRA

Group hor Group hon or girls
Santa Rosa de L ma, A. C

PARTICULARITIES OF THE STREET

CETRAM is a transfer center of the collective public transportation system. It is an important node that receives and serves the inhabitants of the rural communities north of the city of Queretaro.



IN SUMMARY, A CETRAM IS A FUNDAMENTAL PART OF PUBLIC TRANSPORT INFRASTRUCTURE IN URBAN AREAS, DESIGNED TO IMPROVE THEEFFICIENCY AND ACCESSIBILITY OF THE TRANSPORT SYSTEM BY FACILITATING THE TRANSFER BETWEEN DIFFERENT MODES OF MOBILITY. THIS CONTRIBUTES TO REDUCING TRAFFIC CONGESTION, PROMOTING SUSTAINABILITY AND IMPROVING THE UALITY OF LIFE OF CITY DWELLERS.

STREET PROBLEM ANALYSIS











The distance between trains is dense

and the venue is crowded



Other vehicles are also present in the bus parking area



The temperature is high, and there is only one tree to provide shade

SOLUTION STRATEGIES

Cab drivers work from 6-20 hours. Drivers do not have rest areas or restroom facilities on site. During peak hours(6-7:30 hrs, 13:30-15:00 hrs, 18-19 hrs) there are an estimated 1,500 users per hour onweek days and 2,100 on Sundays (10-16 hrs)



BUS PARKING LOT ROUTE PLANNING

FROM THE SITE CONDITIONS AND INTERVIEWS WE CAN TELL THERE ARE BIG PROBLEMS WITH BUS PARKING THREE BUS COMPANIES PARKED THEIR CARS INDISCRIMINATELY IMPORT AND EXPORT PLANNING IS NOT CLEAR



THE IMPROVEMENT OF **BASIC MEASURES**

THE DRIVERS HAVE NO RESTING PLACE No bathroom THERE ARE NO FIXED WAITING AREAS FOR PASSENGERS SERVICE FACILITIES ARE NOT IN PLACE

HEAT ISLAND EFFECT PROBLEM

THE CAUSE OF HEAT ISLAND **EFFECT**

CAR EMISSIONS, LESS VEGETA-TION,

ONLY ONE TREE PROVIDES SHADE NEARBY IS AN EXCHANGE

MARKET

PRODUCES A LOT OF GARBAGE, AND THE RIVER IS SERIOUSLY

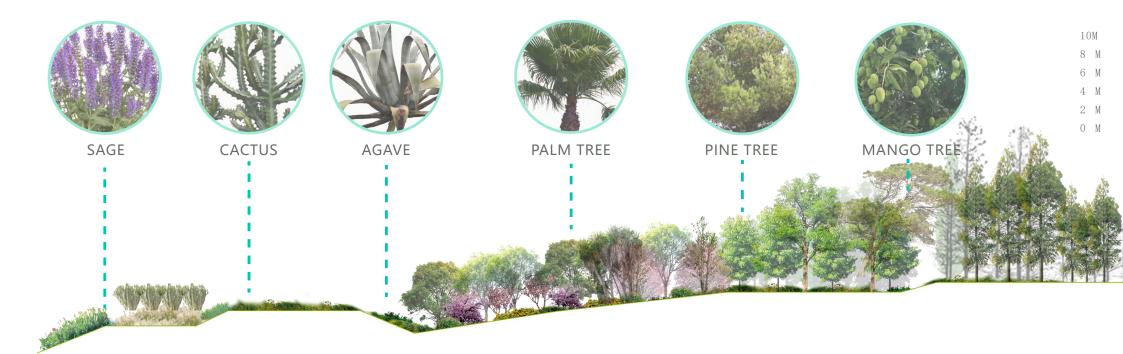
PALANT ANALYSIS



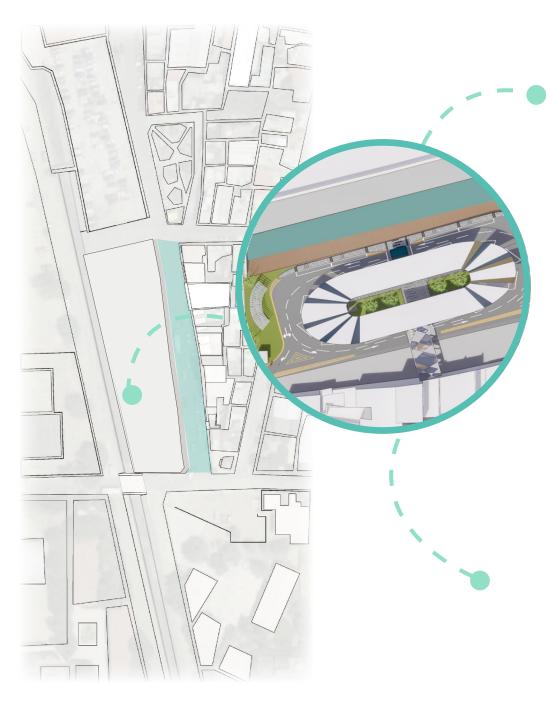
The city of oueretaro has a semi-arid climate. According to this climate, we can grow some plants that are heat resistant, shade, long flowering and ornamental.



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ROUTE PLANNING AND CEILING ANALYSIS



- ① The main movement of employees is the our buildings in the middle of the site
- ② The secondary moving line is the node on both sides of the site
- 3 Employees mainly wander in maintenance vehicles and buildings

Service employee's movement line

- ① Pedestrians mainly enter from the zebra crossing in the middle of the site
- ② The four surrounding buildings are the main movement lines for pedestrians
- ③ The bicycle stop on the right side of the venue is the secondary track

Ordinary passenger's movement line

- ① The peripheral roads of the main site are the main routes for buses
- ② The far left side of the venue is the bus parking spot
- 3 The moving line is looped and simple

Bus driver's movement line

Annotated Illustration

INCREASE CEILING SUPPORT FORCE

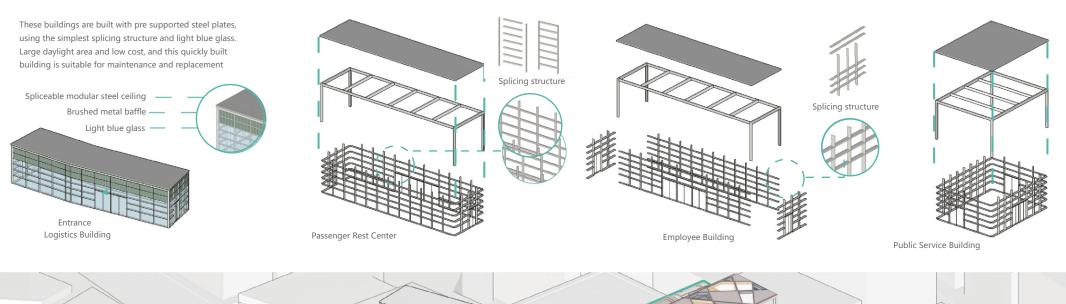
- BUS DRIVER'S MOVEMENT LINE
- ORDINARY PASSENGER'S MOVEMENT LINE
- SERVICE EMPLOYEE'S MOVEMENT LINED

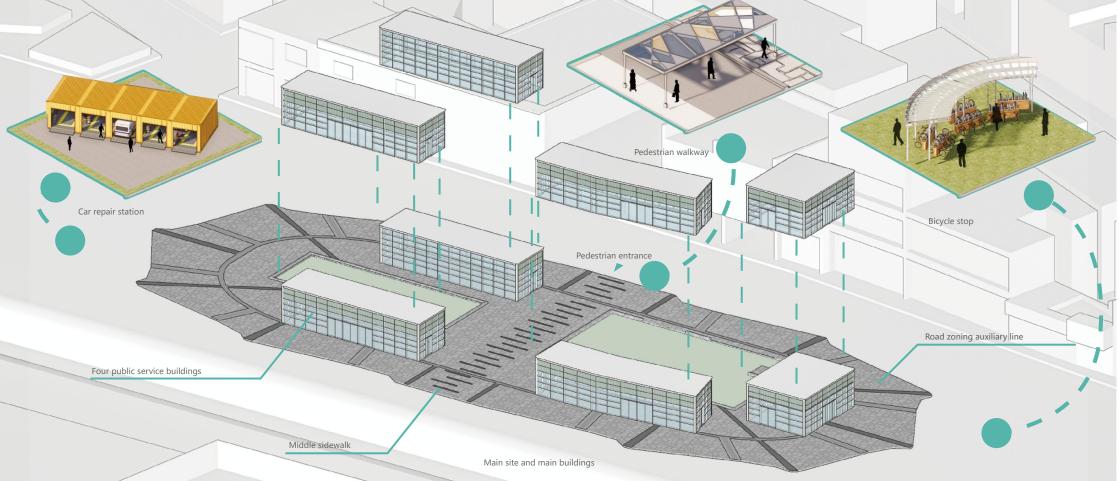
ASS STEEL PLATE SPLICING SUSPENDED CEILING Ceiling Design Description: HE PILLARS IN DIFFERENT DIRECTIONS ARE CONNECTED TO EACH OTHER Analysis of ceiling explosion diagram

Dynamic Line Analysis

Analysis of Building Ceiling

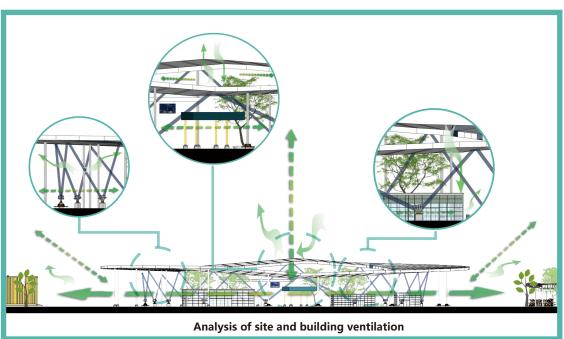
ARCHITECTURAL CHARACTERISTICS

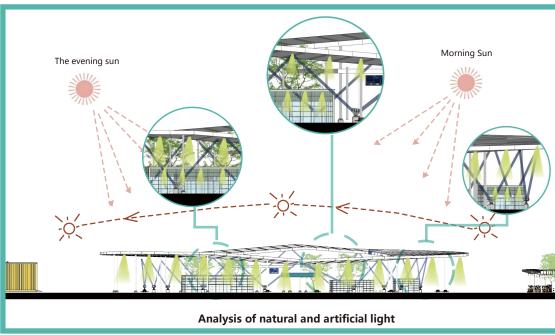




LIGHTING AND VENTILATION ANALYSIS







FUTURE VISION



IN TWO YEARS(2023-2025)

PARKING LOT



Bus site route planning Neat and orderly Address security issues

ROAD



Increase parking space for bicycles
The relevant infrastructure
has been improved

BASIC MEASURE

Customers have fixed waiting tables The driver has a rest area The diversion of people and vehicles solves the crowding problem



ENVIRONMENTAL PROBLEM



The road has parking lots in the gray space zone. More greenery has been added, some for shade. Use green plants to reduce the problem of high temperature

MAINTENANCE AND IMPROVEMENT OF BUS PARKING FACILITIES

After the redesign of the parking lot planning route, daily maintenance of facilities should be carried out. Design real-time bus mini program, bus electronic plate, convenient for passengers to reserve time, increase the parking lot takeout, errand service, etc.

ENVIRONMENTAL PROTECTION, GARBAGE PROBLEM

Environmental issues are a protracted battle
First of all, to increase people's awareness of
environmental protection, in this place, you can set
up garbage classification. Recyclable and
non-recyclable. Reduce the burden on sanitation
workers, and at the same time can better divide and
burn. Reduce white pollution

ECONOMIC BENEFIT

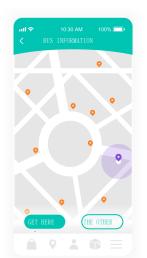
If the surrounding environment is handled well, the exchange market can be reformed, and some fixed positions of Sunday market stalls can be designed to increase revenue, and online goods trading can be designed to expand the market.

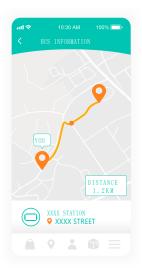
5-YEAR PLAN(2023-2028)



FUTURE EXPECTATION

With the advent of the electronic age, we can use electronic technology to design a public transportation service app, which will have the function of viewing bus stops and bus routes and calling taxis. The concept diagram is as follows:







Check the nearby bus stops

Find the nearest route

Check the bus arrival status







You also can call travel traffic directly



You can talk to the driver

With the advent of the electronic age, we can use electronic technology to design a public transportation service app, which will have the function of viewing bus stops and bus routes and calling taxis. The concept diagram is as follows:





KITCHHEN WASTE HARMFUL WASTE RECYCLABLE OTHER WASTE