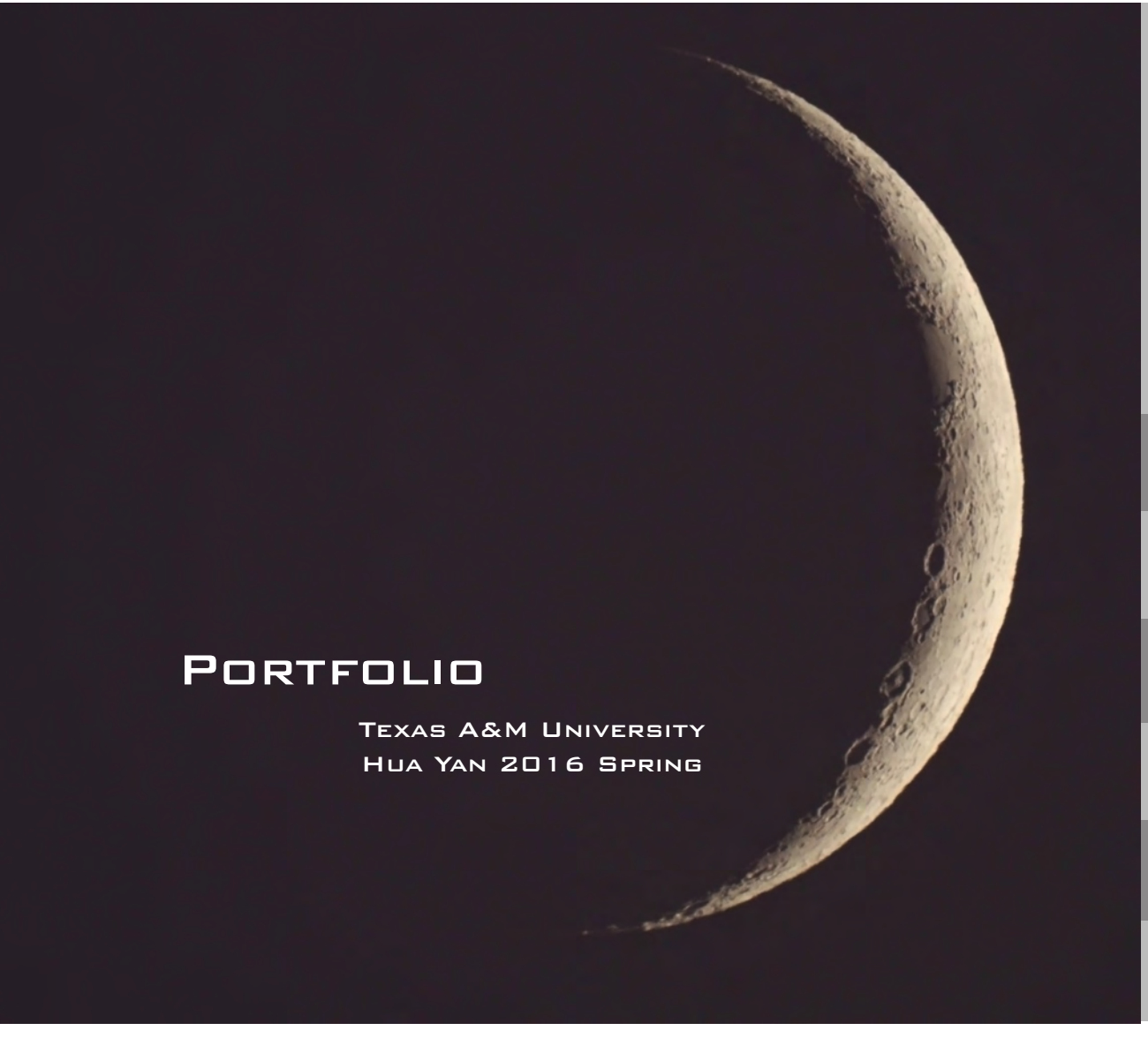


Portfolio

Texas A&M University
Hua Yan 2016 Spring

Content

Hua Yan

E-mail: yanhua0728@gmail.com
Phone: +1 (979)450 2977
http://huayan.radarxc.com/
College Station, TX

EDUCATION

2014- 2017 Master of Landscape Architecture(Expected)
Texas A&M University(TAMU), USA| GPA 3.8/4
2010- 2012 Master of Landscape Architecture
Beijing Forestry University(BJFU), CHINA| GPA 3.3/4
2006- 2010 Bachelor of Landscape Architecture
Beijing University of Agriculture(BUA), CHINA| GPA 3.5/4

EXPERIENCE

EMPLOYEE (Landscape Designer)
2012.01 - 2014.06 AECOM• Beijing CHINA (30 months)
2012.11 -2013.01 AECOM• Shanghai CHINA
INTERNSHIP (Full Time)
2011.05 - 2011.11
China Academy of Urban Planning and Design Institute(6 months)
Job Responsibility:
Assist city design; Site survey and documentation; Analysis diagram;
2010.02 - 2010.08
Beijing Haidian District Landscape Design Department (6 months)
Job Responsibility:
Planting design; Garden design; 3D modeling; Collages& Perspectives.

POSITION APPLIED for Internship summer 2016 or spring 2017

HONORS

AWARD

Outstanding performance in IFLA 2011 Asia-Pacific Student Design Competition	IFLA , 2011
Excellent Graduate Cadre	Beijing Forestry University, 2011
Excellent Graduate in Beijing	Beijing, 2010
National Scholarship in 2008-2009	China, 2009
Excellent Volunteer of Beijing Olympic Games and Paralympics	Beijing University of Agriculture, 2008
Honor Student (2 /1000)	Beijing University of Agriculture, 2007

SCHOLARSHIP

Landscape Architectue Departmental Scholarship 2014-2015,2015-2016	Texas A&M University,2014& 2015
Campus Outstanding Scholarship in 2008-2009 (2 /1000)	Beijing University of Agriculture, 2009
Campus First-Class Scholarship in 2006-2007	Beijing University of Agriculture, 2006
Campus Third-Class Scholarship in 2007-2008	Beijing University of Agriculture, 2007

VOLUNTEER & COMMUNITY ACTIVITY

2015.06 Volunteer for ASLA Texas Conference at silent auction;
2008.5-2008.8 Volunteer in Beijing Subway during 2008 Beijing Olympic Games and Paralympics.

2014-NOW ASLA student chapter in Texas A&M University;
2010-2012 Deputy Minister for Public Relations of Student Union in BJFU;
2007-2009 Chairman in Further Education Committee in Landscape Collage of BAU;
2006-2010 Conductor for the Chorus of Landscape Architecture Collage in BAU.

PUBLICATION

Analysis of urban green space processing [J]; First author • Union Expo in 2009(12) ISSN 1009-9166

PROFESSIONAL SKILLS AND EXPERTISE

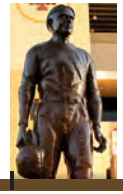
- Excellent on hand-drawing ability;
- Proficient in AutoCAD | ArcGIS | Photoshop | Illustrator | Indesign | Rhino | Grasshoper | Sketchup | Lumion 3D | | Camtasia | Artlantis | Eco-tect Analysis;
- Skilled in site survey and analysis; Documentation;
- Experience in urban design and wide variety of landscape project.

Aggie Spirit

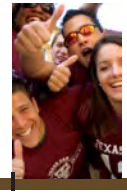
Campus Design(Landform Design)

Traditions of Remembrance
'Once an Aggie, always an Aggie!'
Aggie Muster
Silver Taps
Memorial Student Center

Tradition Symbols
Aggie Ring
Gig 'Em
Reveille



Team Traditions
'The Aggies never lose (though they may run out of time)'
Twelfth Man
Aggie Bonfire
Midnight Yell
Yell Leaders
Maroon Out
Boot Line



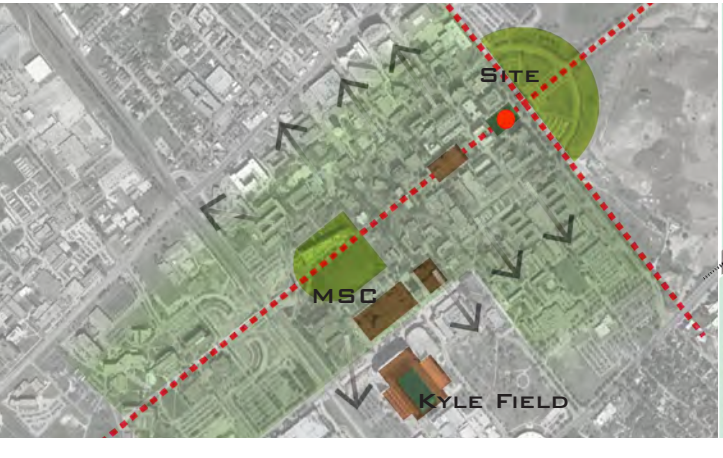
Community Traditions
'Howdy!'
Big Event
Replant, A Growing Tradition
Student Volunteerism
Diversity and Unity Build a Community

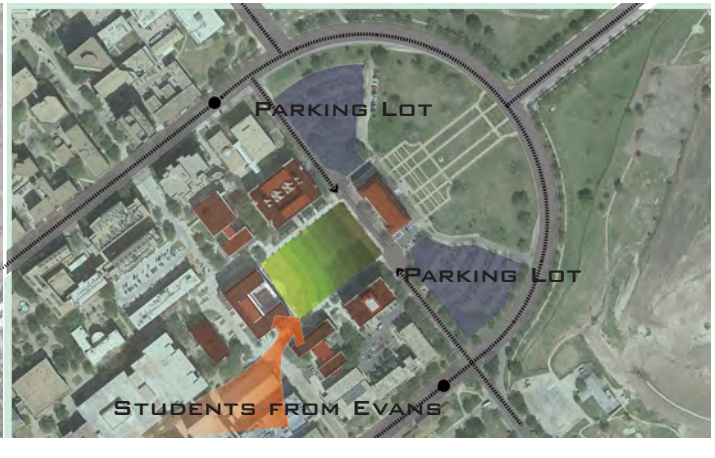
Corps of Cadets Traditions
Senior Boots
Fightin' Texas Aggie Band
Ross Volunteers
Boot Dance

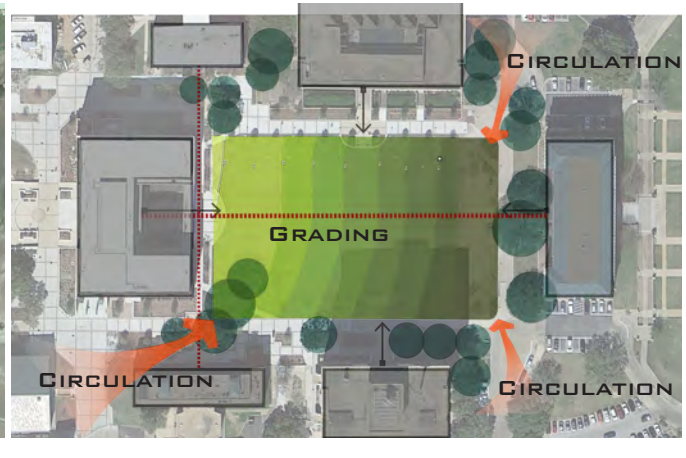
Class Councils
'A proud member of the Fightin' Texas Aggie Class of..."
Elephant Walk
Junior E-Walk
Ring Dance
Graduation

Spot Sulpture

The site is laied on the main axis of Texas A&M University. the location of near system building contributes it unique site character.
According to circulation study, most users comes from south, which is the direction of Evan Library, MSC and school bus station. On the other hand, visitors for parking lot, on both side of system Building, should be considered in framework of site design.

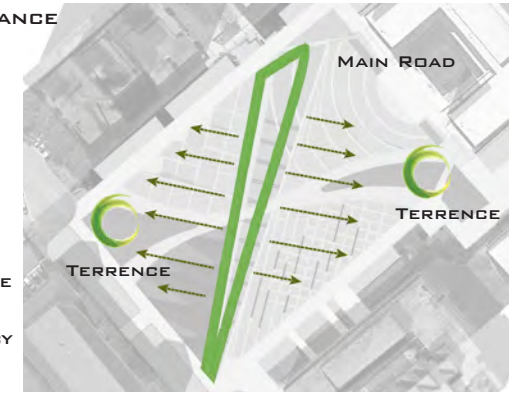






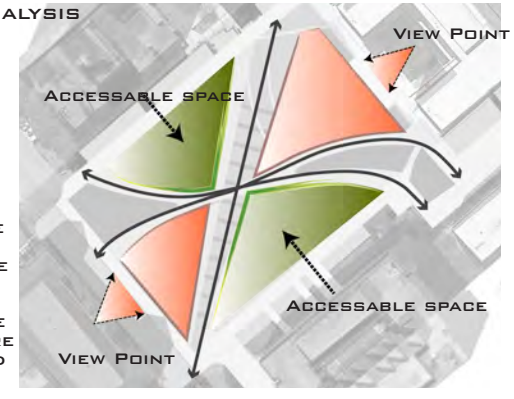
The design , Accroding circulation study and the condition of existing planting , set the north side as the main enterance. a main axis go through the site diagonally, while a other road with more free style combines other two points.

Spasc Balance



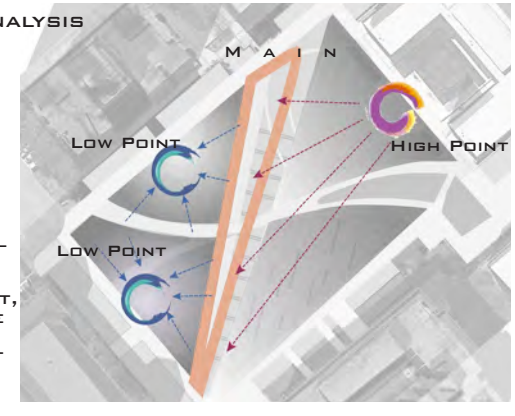
The Main axis divided the site to two parts diagonally. The terrances, placed in the other two sides, are connected by a road with free style.

Grading Analysis



the two green part as showed below are in front of the main gate of building, which provide space for staying and assembly. the other two are used for bird view.

Grading Analysis



Accroding oringinal grading, the design set the point near Liberial art builing as the highest point, and the blue circle as lowest point as showd below.

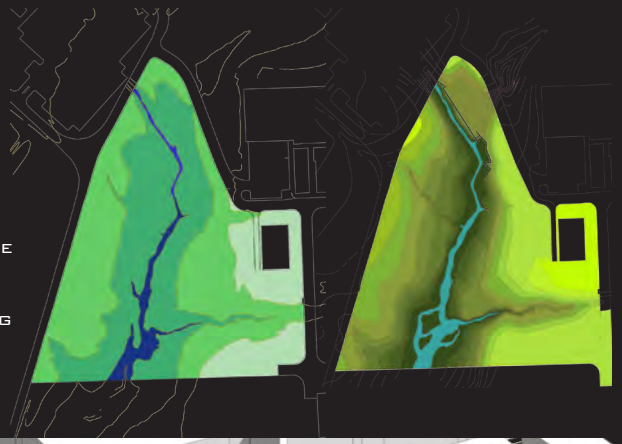
Enterance

View from Langford Buidling

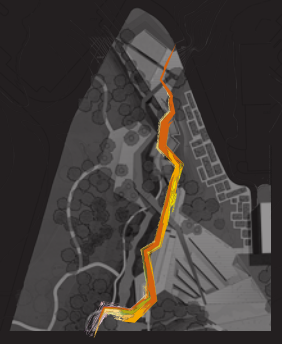
View from System Buildi

View from Oceanology Buidling

Exsiting creek was quite narrow, the steep slope of band made it hard to get into the water, which weaken the experinece of water. the exsiting creek branches several swales needed be considered in design.



watching Water Route



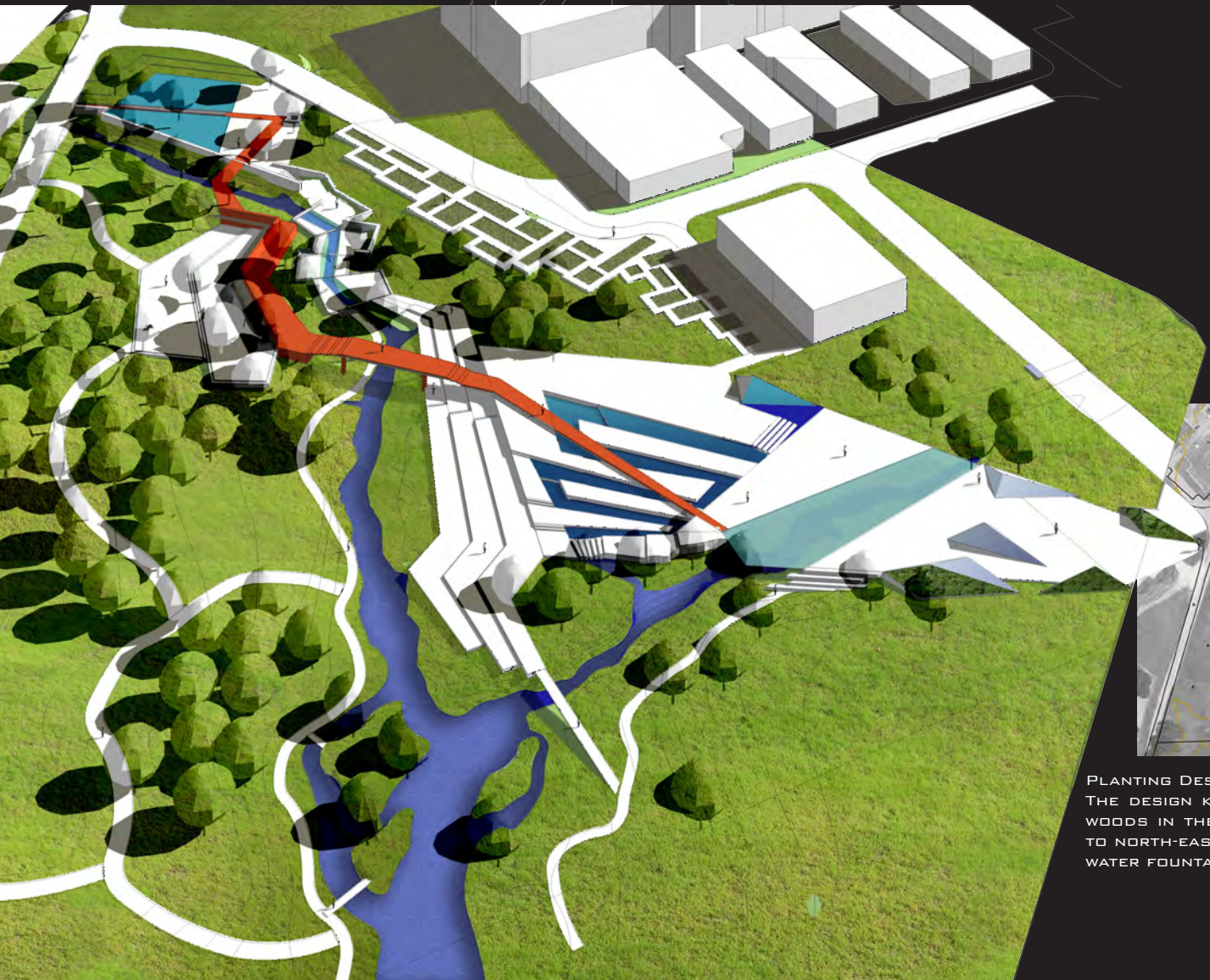
Playing Water Route

Learing Water

Water Garden

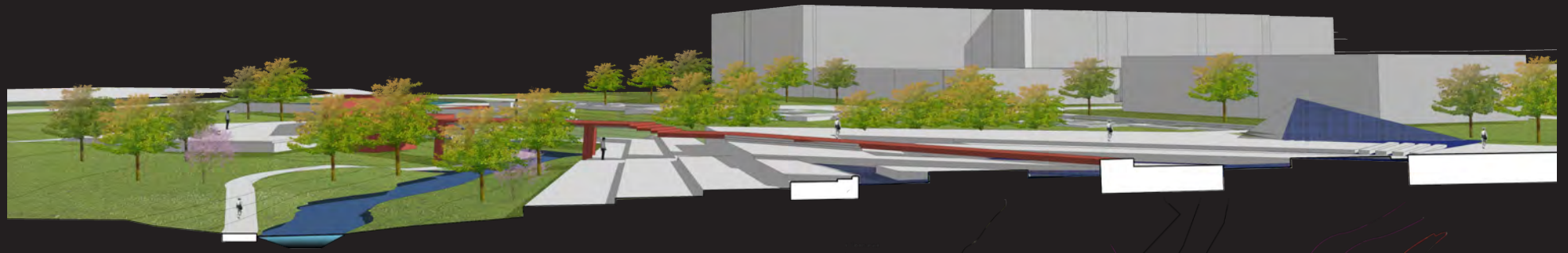
Water experience | Srormwater management
Water education | water treatment | Water vegetation

THe design makes the slope near water gentler to increase the chance of touching water.
At the same time, the proposed contour line try ot fit the construction to create the space in diffrent elevations.
Keeping the exsiting swales or more them as litlle as possible, so that the design would not effect the tolerance of flood.



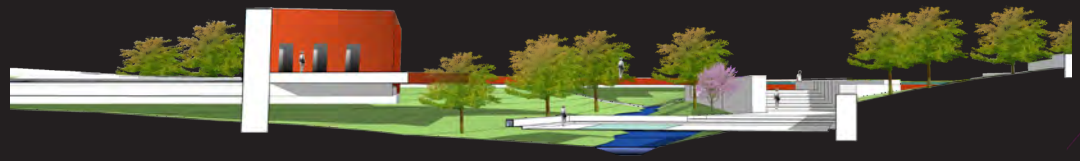
Planting Design

The design keeps the exsiting trees as much as possible. Keeping the woods in the good condition in west. the experiment field was moved to north-east to be laid along the roal and leave a flat land for main water fountain.

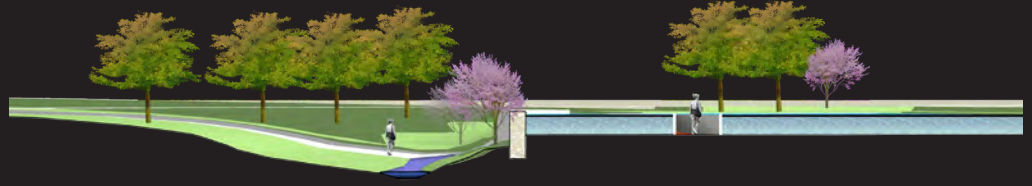


1 Main Fountain Area ——extention of entence space and Mixed-use space of three main routes. Water in this area goes along the loop channel in waterfountain to show the hydrologic Cycle in the nature or the process of water treatment.

2 aquatic plants Area——A retention pond, at the end of the three rounts to show interaction among water, nature and human beings.
Water in this area comes from the existing creek. A retention pond would be developed in the end of the creek in the properity to solve flood.



3 Sunken Pocket Plaza—— A important point for playing water routes and a reservoir for flood.
these are a series of small plazas very close to the exsiting water level, providing a chance to touch water and watching water flowing underneath the glass slab.



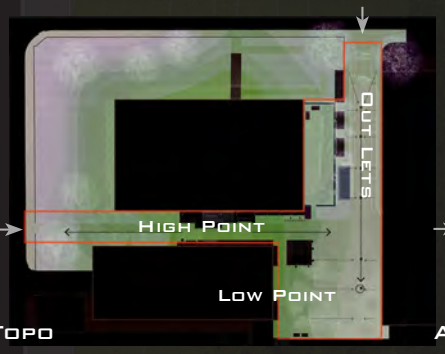
4 Still Water Area—— the starting point of the watching water routes.
The sense of silence in still water pool would clam people Drow. Especilly, the sunken path in the pool emphasizes this sense. This is also a important area for quiet area in the park to create a silent atmosphere for meditation.

HALLOWEEN OVERNIGHT PARTY

Temperary Landscape Design (Material&Structure)

Where should a Halloween Party take place ? The design aimed at to move indoor halloween party to outdoor for architecture college student in A&M. According to the exsiting condision, the concept foucus on three subject related to halloween_ ghoust town; haunted Garden and forstry party. In the part of forestry party area, the site was seperated further to blue trails, yellow trails and party plaza.

The design was required to adopt sustainable temporay materials to construct the installations. the materials list is as followed: wood boards; plastic boxes; cloth curtains; recycling milk bottles; branches; organic pigments and chalks; metal planes; cables; freestanding glass walls; movable lightings and other decorative adornment,

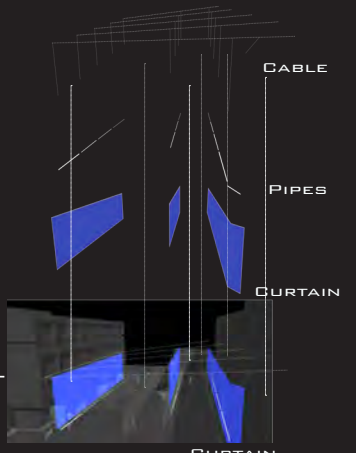


Topo

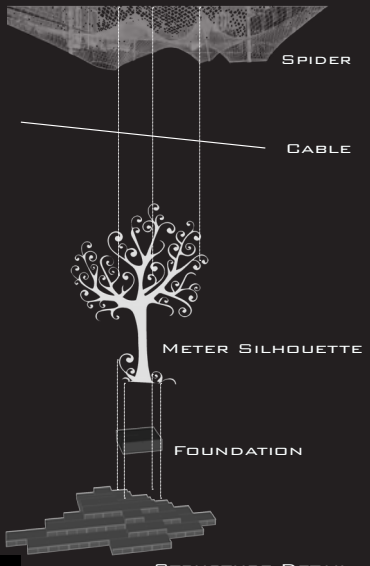
Area

Haunted Garden
Idea Illustration

Main Enterance
Section



Curtain



Structure Detail

Sculpture Tree Section

Healthy Living

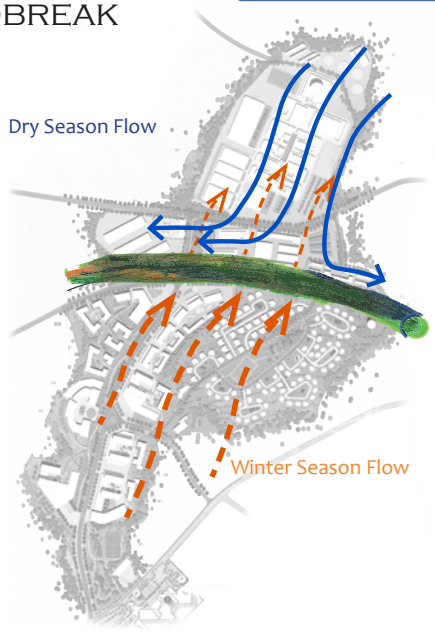
The site of community is located in a medical city of Nigeria, which incorporated necessary utility facilities, mixed-used center and diverse residential communities. Over the years, people in Nigeria were undergoing adverse medical conditions and neighborhood conditions. As a result, healthy living arrangement is in increasing demanding.

The vision of the whole city is to create a residence offering healthy living, including healthy life style, healthy diet habit, and health care facilities or services. This design followed the missions of the medical city and put more focus on healthy residential environment creation.

Healthy Care

- **Medical Health**
  - Mobile Vendors
  - Period Check
  - Vaccine
  - Maternal and Child Care
  - Mal-nutrition Programming
  - Massage Therapy
  - Native Herb Nursing
- **Neighborhood Health**
  - Healthy Eating Demostration
    - Healthy food cooking contest
    - Cuisines contest
    - Adopt-A-Plant Garden & farming organic foods training
    - Nutrient classes
    - Ourdoor classroom.
  - Recreation Program
    - Neighborhood garden; Children Park;
    - Cultural themed festival;
    - International and national music & dance ;
    - Horticulture garden contest .
  - Social activity Wellness Program
    - Street games/races/walks/bikes rides
    - Street soccer show/contest

Windbreak

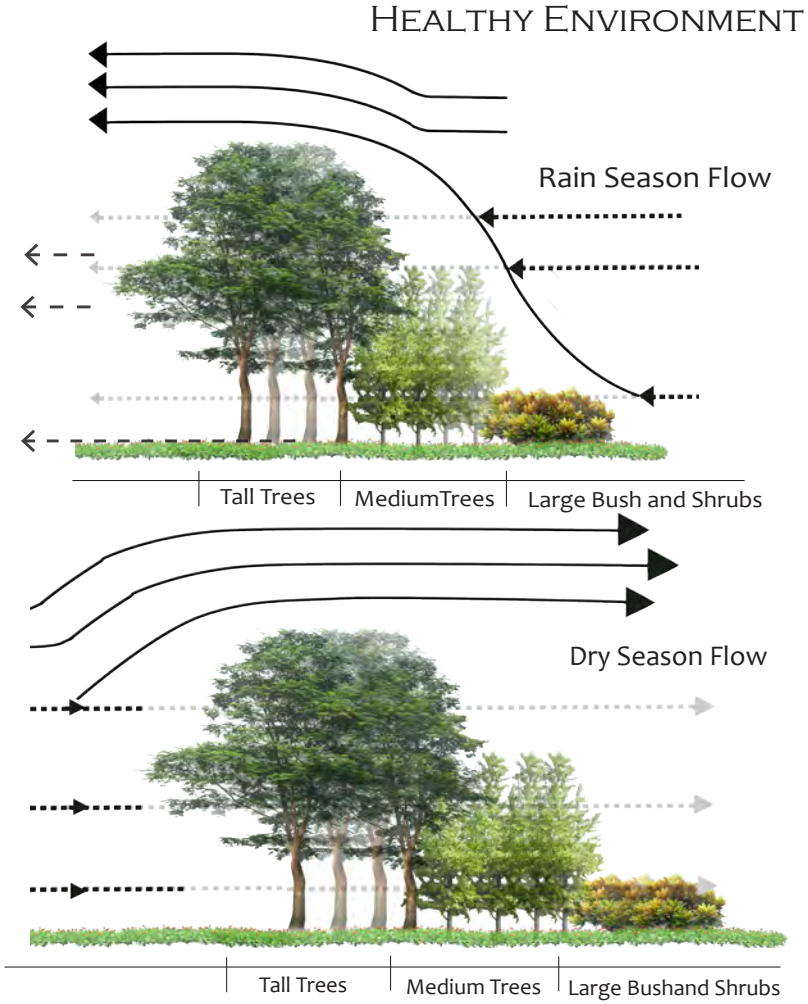


Open Wind Speed 20 mph Multi Row 60-90% Density					
H distance from windbreak	5H	10H	15H	20H	30H
miles per hour	5	7	13	17	19
% of open	25%	35%	65%	85%	95%

Open Wind Speed 20 mph Deciduous 25-35% Density					
H distance from windbreak	5H	10H	15H	20H	30H
miles per hour	10	13	16	17	20
% of open	50%	65%	80%	85%	100%

Open Wind Speed 20 mph Conifer 40-60% Density					
H distance	5H	10H	15H	20H	30H
miles per hour	6	10	12	15	19
% of open	30%	50%	60%	75%	95%

Healthy Environment



Medical City Master Plam

The master plan put a green buffer of 50 meters to divide the site into two parts_ facility area and community area.

Facility Zone: Power Plant, Waste Processing, Pharmacy Processing, Water Treatment, Data Center, Research Lab.

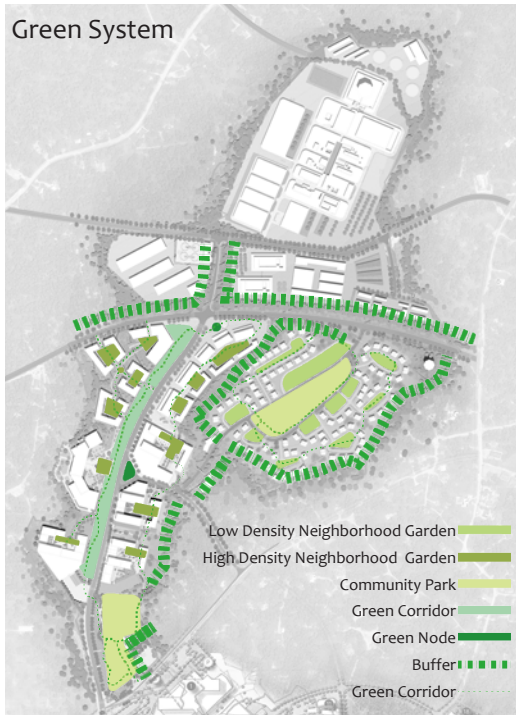
Community Zone: Emergency Response Center; High density community, medium density community and low density community; Health care service building.

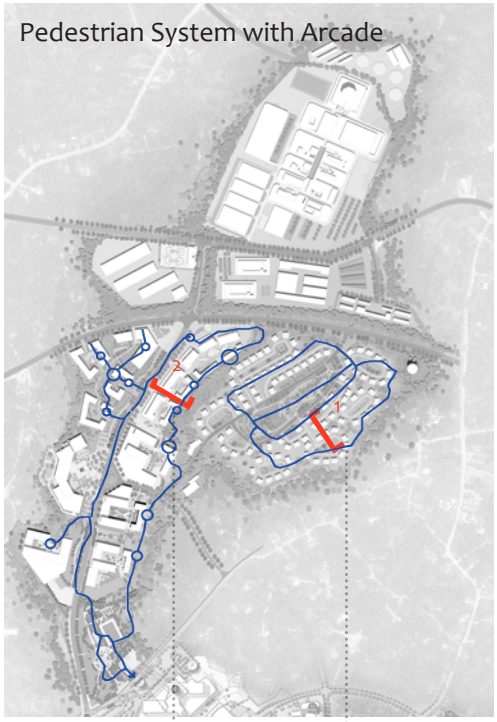
- Duplex House
- Single-family House
- Mix Use
- Condominium
- Community Service
- Multi-family House
- Parking Garage
- Power Plant
- Water Treatment
- Pharmacy Processing
- Data Center
- Research Lab
- Waste Treatment
- Fire Station& Emergency

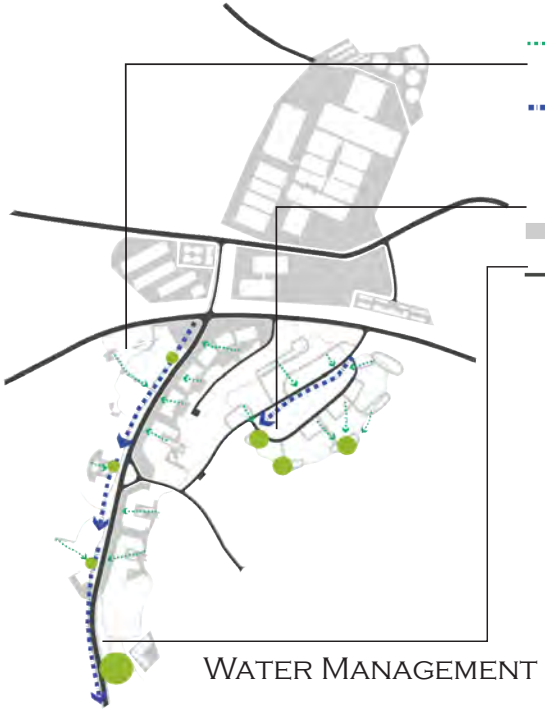
- Water treatment station
- Power Plant
- Waste Processing
- Pharmacy Processing
- Data Center
- Research Lab
- High density community
- low density community
- Health care service building
- Medium density community
- Green Corridor

1. Mixed-use Building with Commercial and Office
2. Duplex (2F)
3. Condominium
4. Single Family Housing (2F)
5. Community Club
6. Multi-family Housing
7. Water Processing Facility
8. Power Plant
9. Waste Treatment Facility
10. Data Center
11. Research Lab
12. Fire Station & Emergency Response Center Pharmacy Facility
13. Courtyard
14. Soccer Field
15. Health Center
16. Sale Housing Office
17. Community Center
18. Community Park
19. Water Tank
- P Parking Garage
- Main Entrance
- Secondary Entrance

10 Walkable Neighborhood







Roof Collection
Rain Harvest
Bios wale
Rain Garden
Porous Paver
Porous Concrete

Bio-swale
Rain garden
Porous Pavement

Water Management

Pedestrian Loop for Public Space
2000meters

Park — 10 MINS — Community center — 8MINS — Clinic — 15MINS — Park

Pedestrian Loop for Private Space
1300meters

Club House — 2 MINS — Notice Board — 11MINS — Notice Board — 9MINS — Club House

Pedestrian System with Arcade

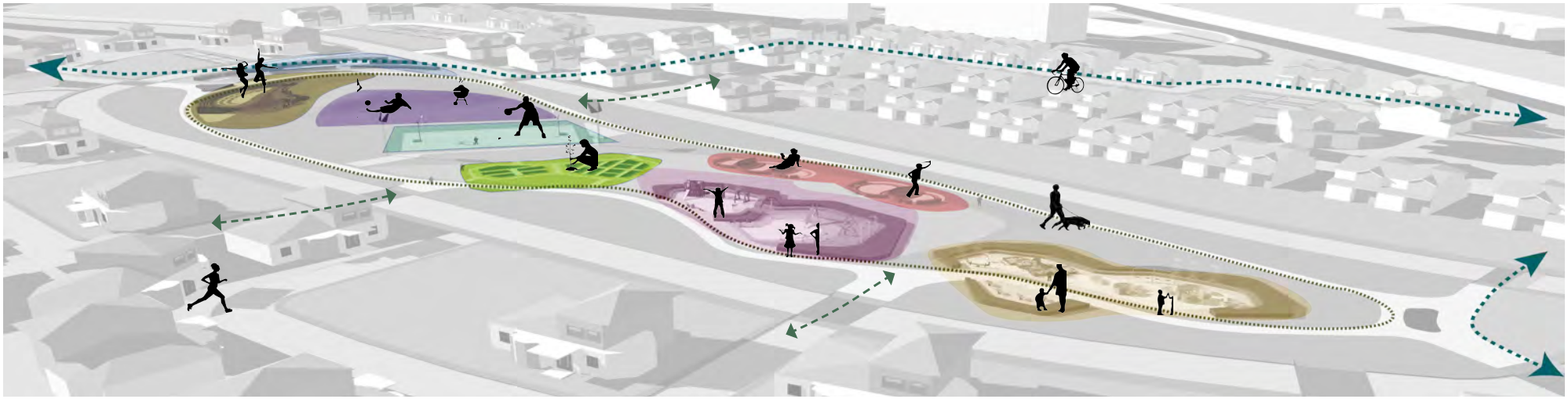
Various activities were arranged to give a diverse sense of healthy living style. Main spot activities were combined by main routes for different demand of users. . The colorful zones in the diagram show different area for specific functions, which are also separated by multiply vegetation against disturbance.

Multi-functional Green Space Gathering activities including soccer, tennis and resting.
Neighborhood Garden Cluster houses, which would be used for barbeque and playing with pets.
Club House Supplementary for community center, providing indoor activity sites.
Walking Path Linear active sites, urban pedestrian system and community pedestrian system.

PERDESTRIAN

1300 METTERS

Club House — 2 MINS — Notice Board — 11MINS — Notice Board — 9MINS — Club House

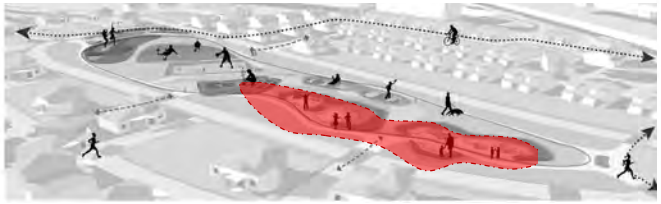


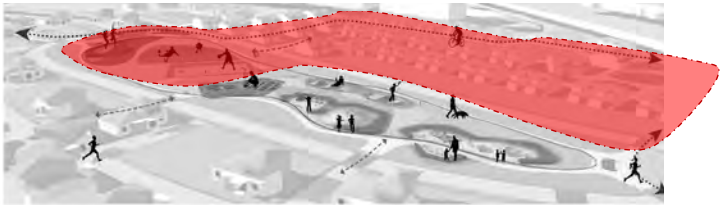
The path system includes different routes for different users.

Young Man:
Outdoor Drawing Room; Sunken dancing Plaza; Sports field.

Children:
Children Park; Parents Garden; Adopt-a-planting Garden.

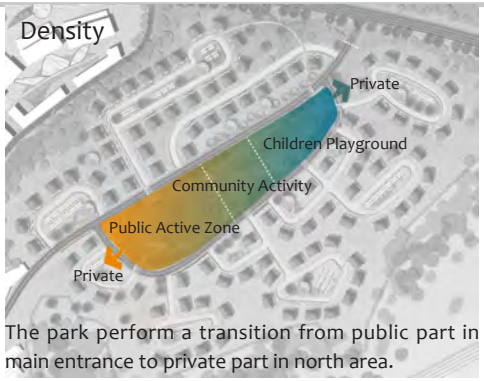
House Wife:
Nutrition Garden; Sunken dancing Plaza; Pedestrian path.



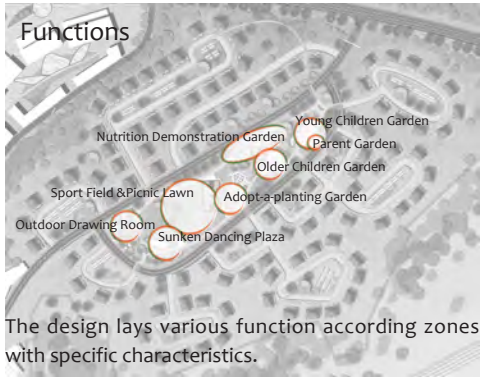


12 COMMUNITY PLAN

The community park would defined as a park that serves to neighborhood. Some programs conluded by background analysis would happen in the park as supplemental aid for health care. Besides, the park design was added some programs for children, and traditional elements for visitors to explore.

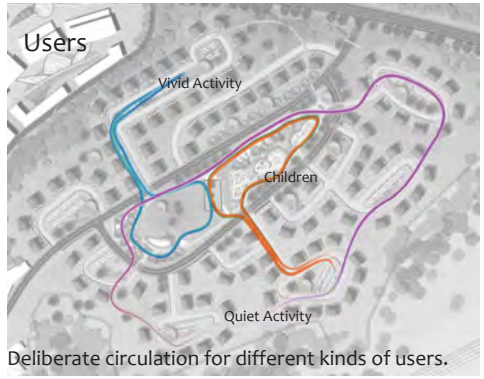


The park perform a transition from public part in main entrance to private part in north area.

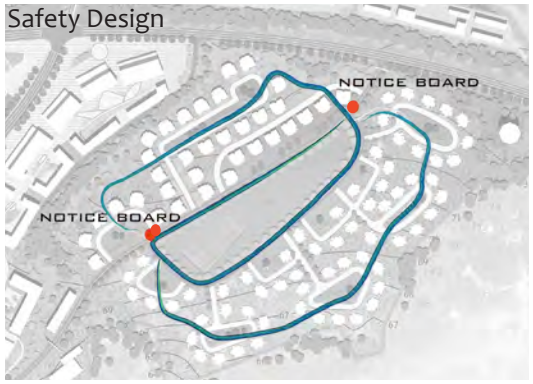


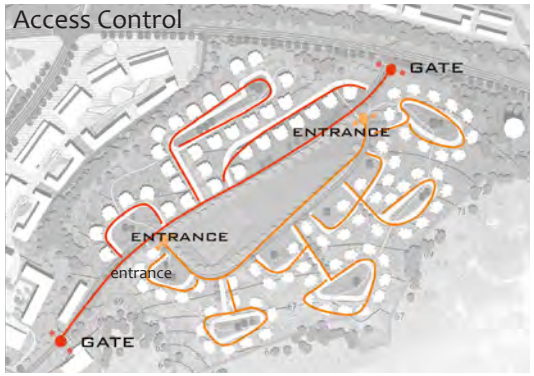
The design lays various function according zones with specific characteristics.

The smoothing transition zone hanppen at red spot, to provide more choices for linear activities.



Deliberate circulation for different kinds of users.



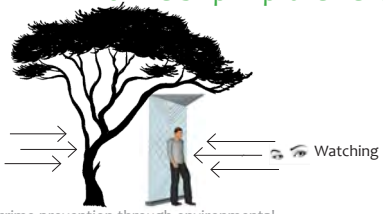


CPTED CRIME PREVENTION THROUGH ENVIRONMENTAL

Territorial Reinforcement
Ownership Improvement

Natural Surveillance

High canopy and transparent structures could maximize visibility is one concept directed toward keeping intruders easily observable, and therefore less likely to commit criminal acts.

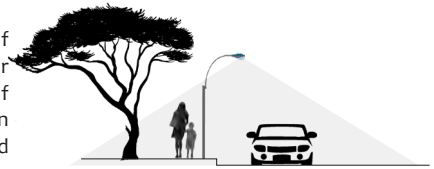


Casteel, C., & Peek-Asa, C. (2000). Effectiveness of crime prevention through environmental design (CPTED) in reducing robberies. American Journal of Preventive Medicine, 18(4)

Access Control

Maintenance

Maintenance and repair of landscaping, lighting, and other features to facilitate a sense of caring and ownership. This can also include maintaining and encouraging orderly behavior.



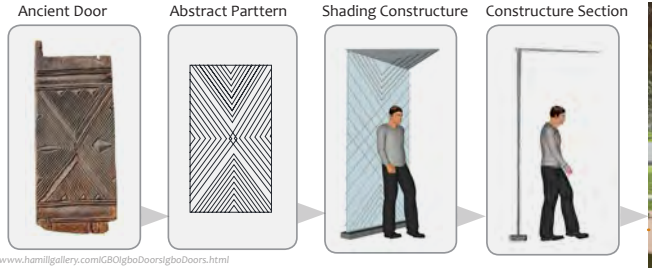
Adopt-a-plant Garden : The map shows the locations of the community gardens, which are proposed to grow organic food and provides programs such as the nutrition class, healthy cooking for both the local people and residents in the community.

Cluster Neighborhood : Some special design would implemented to develop exclusive characters for cluster neighborhood, meanwhile rich visual effects ,providing diverse experiment.

Signage System : Since the intersection between lanes and walkway would happened at two red spots as shown in left, which may increase possibilities of traffic accidents. Hence notice board and striking pavement should be installed for warning.

Gated Community : Two main gates would be installed at red spots as shown left. The orange ones are two entrances to single house area, which provide a organized arrangement to maintenance.

CULTURAL ELEMENT



www.hamillgallery.comIGBOIgboDoorsIgboDoors.html

The design abstracted some unique pattern from traditional arch, door or cloth, and then used them to structures on the site. The shading contracture above adopted the pattern we concluded, and was made up by glass and steel tubes with the height of about 8 feet providing shade and raining protection.

Some other elements from traditional culture of Nigeria were collected. These elements would be applied into some new applications, such as decorative column, benches, paving pattern or some furniture, as shown below.

Text Reference: Atlas, R. (1991). The other side of CPTED. Security Management Magazine, March.

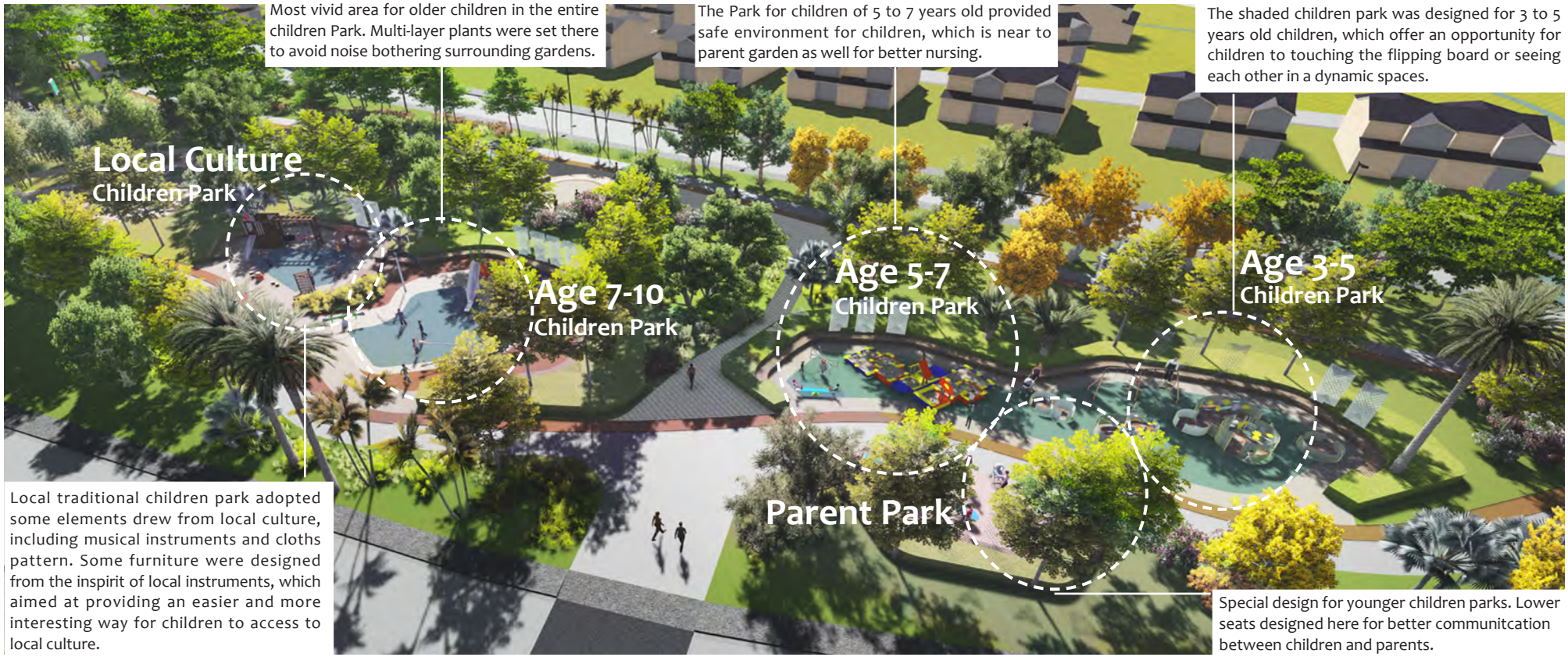
Children Park

Children park area contains Local Traditional Children Park, age7-10 Children Park, age5-7 Children Park, age3-7 Children Park and Parents Park. These parks would offering diverse experience both children and parents, according the specific functions.

Most vivid area for older children in the entire children Park. Multi-layer plants were set there to avoid noise bothering surrounding gardens.

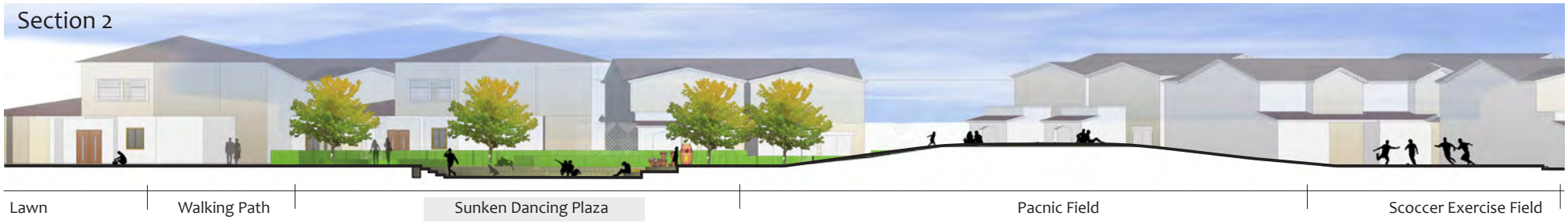
The Park for children of 5 to 7 years old provided safe environment for children, which is near to parent garden as well for better nursing.

The shaded children park was designed for 3 to 5 years old children, which offer an opportunity for children to touching the flipping board or seeing each other in a dynamic spaces.



Local traditional children park adopted some elements drew from local culture, including musical instruments and cloths pattern. Some furniture were designed from the inspirit of local instruments, which aimed at providing an easier and more interesting way for children to access to local culture.

Special design for younger children parks. Lower seats designed here for better communitcation between children and parents.



Considering maintenance cost for erosion control, the design avoided too many changes in elevation. Gentle slope would be created in picnic field, which functions as a buffer between dancing plaza and sport

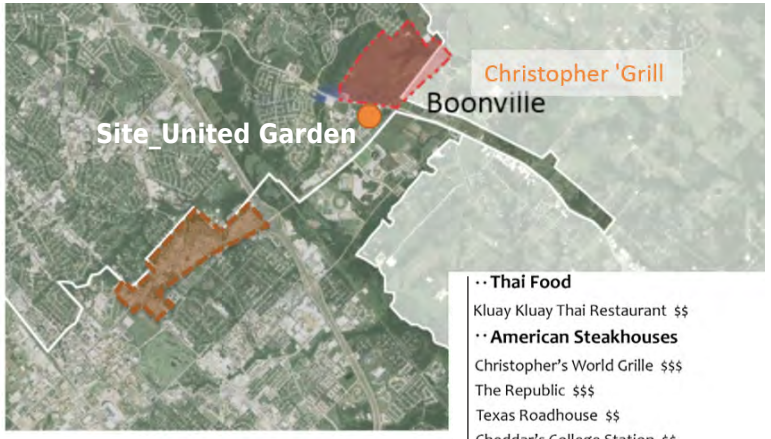
Boonville's United Gardens

A high-end multi-generational community focused on cultural exchange, heathy eating promotion, family values and the wellness for all residents.

The Texas Triangle is one of eleven mega-regions in the U.S. The Triangle is anchored by the metropolitan areas of Houston, Dallas–Fort Worth, Austin, and San Antonio.

Texas Triangle is the economic center of the state.

The United Gardens site is located in Bryan, TX. within the Texas Triangle. The local climate is charaterized by hot summers and mild winters with a humidity around 65% to 75%, which is very comfortable for outdoor activities.



Business Types

Restaurants .....
Cafe
Fuel Station
Banks
Hotels
Conference Center
Store (Home Depet, Jewelers store, Toy stire, Book Store, Halloween)

Thai Food
Kluay Kluay Thai Restaurant $$
American Steakhouses
Christopher's World Grille $$$
The Republic $$$
Texas Roadhouse $$
Cheddar's College Station $$
Burgers
Grub Burger Bar $$
French
Veritas Wine & Bistro $$$
Seafood
Fish Daddy's Seafood Grill $$
Coffee & Tea
Starbucks $$
Breakfast & Brunch
. Cracker Barrel Old Country Store $$

Goals and Missions

WELLNESS **1. Promote Physical Health**

Heathy Eating + Healthy Living + Aging in Place(CCRC) + Recreational Activity
Health Center| Club House : Outdoor activity plaza, Diet classes, Cooking studio, Fitness Center, Dancing class.

SOCIAL HEALTH **2. Promote Social Health**

Intergenerational Communication + Social Interaction Opportunity + Volunteer Opportunity + Culture Exchange
Senior Living Center| Children Park| Social Family Center| Culture Exchange| Pet park :
Intergeneration Program, Adopt Pets.

EDUCATION **3. Promote Healthy Mind (Spiritual & Cognitive)**

Educational Facilities + Lifelong Learning+ Worship place + Therapeutic Gardens
Art Center| Library| After school tutoring| Lifelong learning: Multi functional Hall, Theater/ Show;
Painting classroom, Craft studio, lecture classroom, Language learning, History& culture learning Flower arranging.

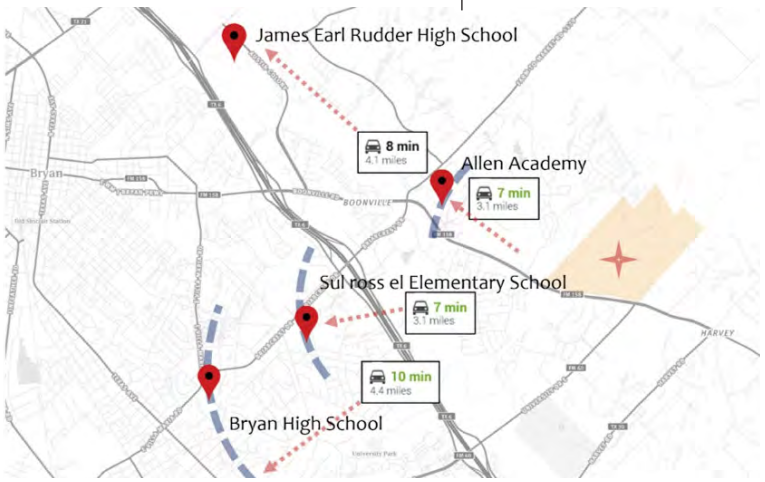
ECOLOGY **4. Ensure Heathy Environment**

Low Impact Development + Sustainable Practice

Trails System| Green Buffers| Community Farm| Eco-friendly Program :
Jogging trails, Walking trails, Outdoor recreation, Cultivate garden, Adopt a planting Garden.

ECONOMY **5. Develop Economic Health**

Commercial Development + Job Creation + Home Ownership + Increase in Land Value + Diverse House Products
Commercial Street| Training &Studios : Eating culture restaurant, Organic Farmers Market,
Multi-cultural exchange, Training Classes,Theater/ Show.



Education

PRIVATE

ALLEN ACADEMY
This School covers an area of 40 acres, and KG-12. The enrollment is 319 students. Allen Academy has a 100% college acceptance rate.
Tuition $16,313.74 + Boarding $19,1926.25 = $36,240

PUBLIC SCHOOL

TRAVIS B BRYAN HIGH SCHOOL (5 DD)
This is a public school covers 9-12. The Asian students' academic performan in this school is ferfect. They got 100% STAAR percent in Reading, Mathematics and social studies, twenty percenthigher than state average. The all subjects percentage for Asian students is93%, which also leads higher state's sixteen percent.

Users Need Analysis

Family with Children	Middle age + Children		
	Family with Seniors	Elderly + Middle Age	
Family with Seniors and Children	Elderly + Middle Age + Children		
	Seniors	Elderly	

Children

Mid-age Couples

Elderly

Visitors

WELLNESS	WELLNESS	WELLNESS	WELLNESS
SOCIAL HEALTH	SOCIAL HEALTH	SOCIAL HEALTH	SOCIAL HEALTH
SOCIAL HEALTH	ECOLOGY	EDUCATION	ECOLOGY
EDUCATION	ECONOMY	ECOLOGY	ECONOMY
• Intergeneration learning	• Socializing • Outdoor Activity • Recreation • Shopping • Fitness	• Outdoor Activity • Recreation • Shopping • Dirking • Chatting	• Dinner • Parties • Shopping • Chatting
• Children park; • After school tutoring; • Library; • Social family center.	• Trails; • Club house; • Commercial street; • Social family center; • Art Hall.	• Community farm; • Social family center; • Lifelong learning center; • Library; • Art Hall.	

Themes and Objectives

Culture Exchanging Socializing

- Provide variety of opportunities for social activities, especially people with multi-cultural background.
- Provide multi-cultural food restaurants to promote social activities and cultural exchange.

Eating Culture

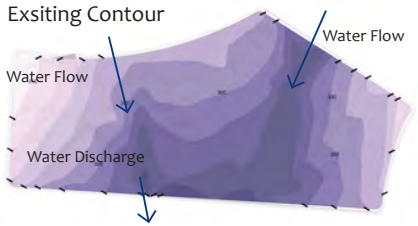
- Restaurant with organic vegetable garden to promote healthy cooking and eating.
- Provide facilities to sale organic food from community farm and promote organic food market.
- A place to get acknowledge of different type of eating culture and their character. (Traditional Chinese medical treatment service).

Diverse Experience

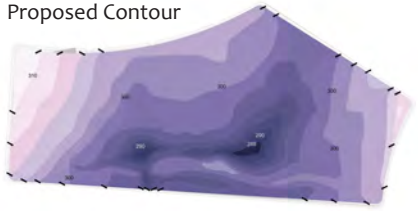
- Restaurant should be freestanding and meet standards for high-end users.

Source: DD: Reading/English Language Arts, Mathematics, Science, Social Studies and Postsecondary Readiness
STAAS percent: STAAR Percent at Phase-in Satisfactory Standard or Above; 2013-14 Texas Academic Performance Report
Reference: http://www.shutterstock.com/pic-105088211/stock-vector.html; http://stromlawyers.com/blog/2015/03/5-warning-signs-associated-with-nursing-home-abuse/

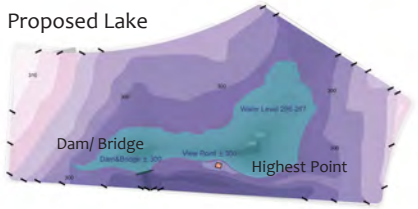
Exsiting Contour



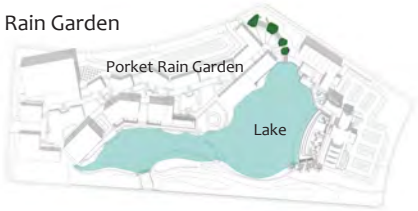
Proposed Contour



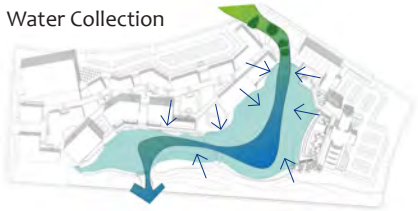
Proposed Lake



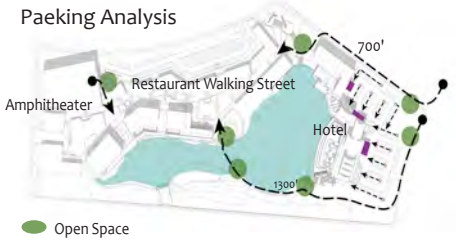
Rain Garden



Water Collection



Paeking Analysis



Open Space
Drop Off
Protected Walking Way
Circulation from Parking and garage

Commercial Walking Street
Master Plan

Amphitheater

An outdoor opportunity for performances and displays by clubs and studios in the community.

Restaurant Walking Street

A pedestrian street offering diverse walking and eating experience. **Organic gardens** providing a comfort walking and queuing time during peak time.

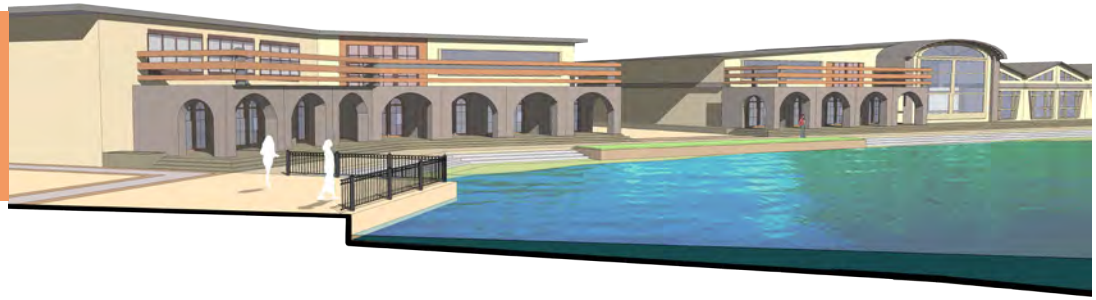
Hotel

High-end Hotel with waterfront restaurants, sunken restaurant would give a higher-level experiences to environment for users.

Near Restaurant

Banks near restaurant were waterfront features with outdoor restaurant directly near water, which are offering higher-quality experiences to water.
This type of restaurants also have abilities to holds big event for both local residents and visitors.

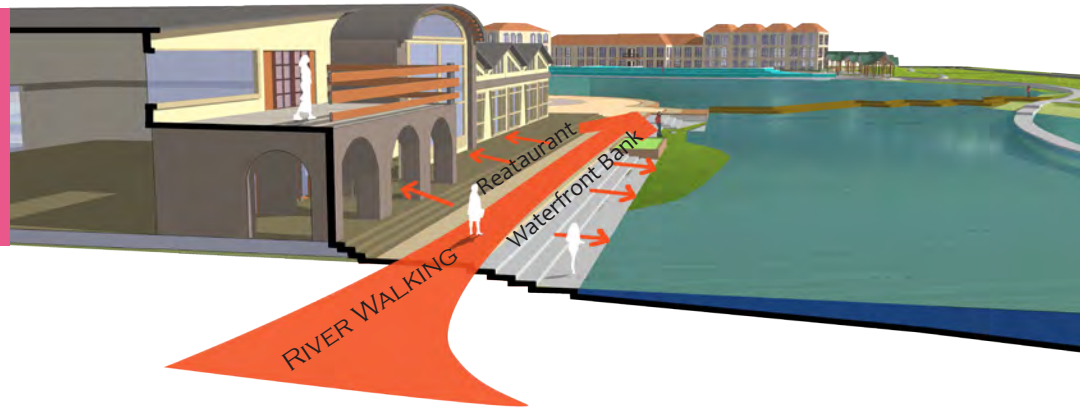
Bank Near Plaza



Bank near plaza is a spot feature, combining gathering plaza and water access opportunities. These type of areas would be the most vivid areas in the commercial zone for the community.

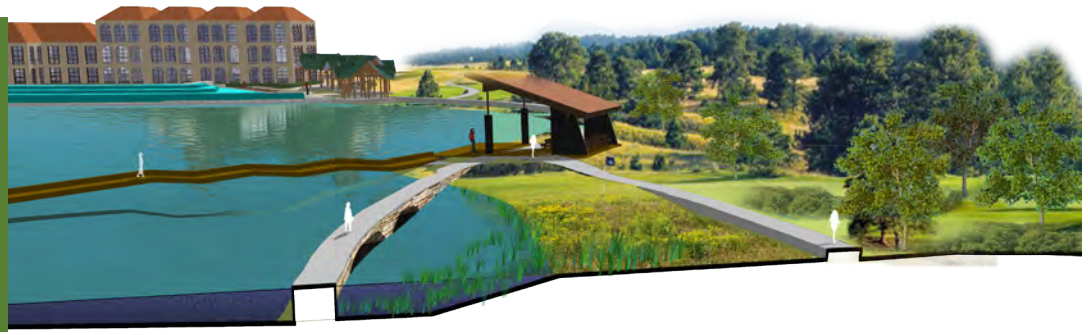
Near Restaurant | Bank River Walking
Bank Near Plaza | Natural Bank

Bank River Walking



River walking is a linear feature, combining restaurant walking street and water access opportunities. The building basement were raised to form a independent area for outdoor restaurant. Thus three levels of spaces were created, including restaurant area, river walking and waterfront bank. The special design separated circulation flows with different purposes, avoiding interruption with each other.

Natural Bank



Natural bank is a linear space with nice prairies environment not only for walking, but also for self-service eating experience. Some BBQ facilities would be set here both for restaurants nearby and personal parties.

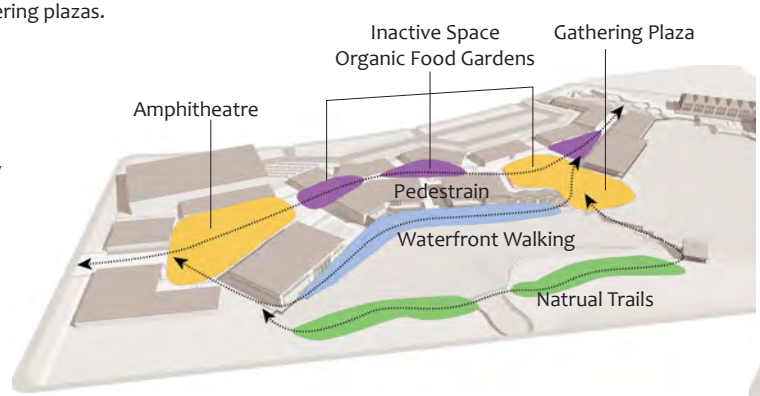
Restaurant Walking Street
Circulations and Signts analysis

Internal Street Circulation
Two-story restaurants near water with higher basement, separated the entire restaurant walking street area to internal street and Waterfront Street. In the internal street, some enclosed outdoor spaces were created. According the building types nearby, these spaces would functions as amphitheater, organic food gardens, queuing and waiting spaces and gathering plazas.

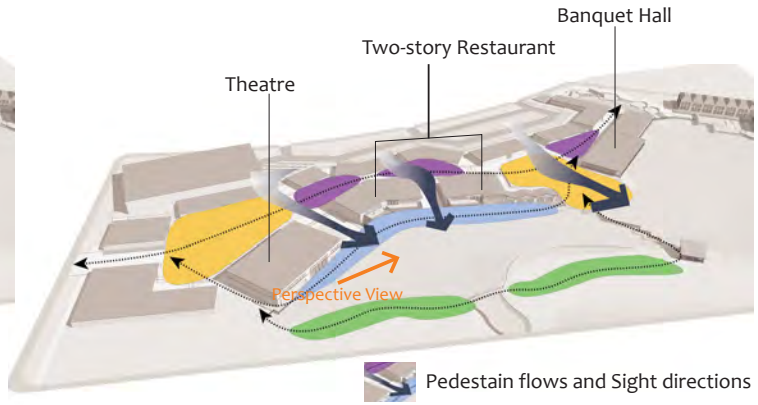
Waterfront Circulation

Waterfront walking circulation, based on accessibility to parking lots, includes three circulation flows, providing good access to the water area for walkers and effective sights to water features. At the same time, the prairies near highway, as a nature buffer for the commercial area would block unwanted views and sounds.

Internal Street Circulation



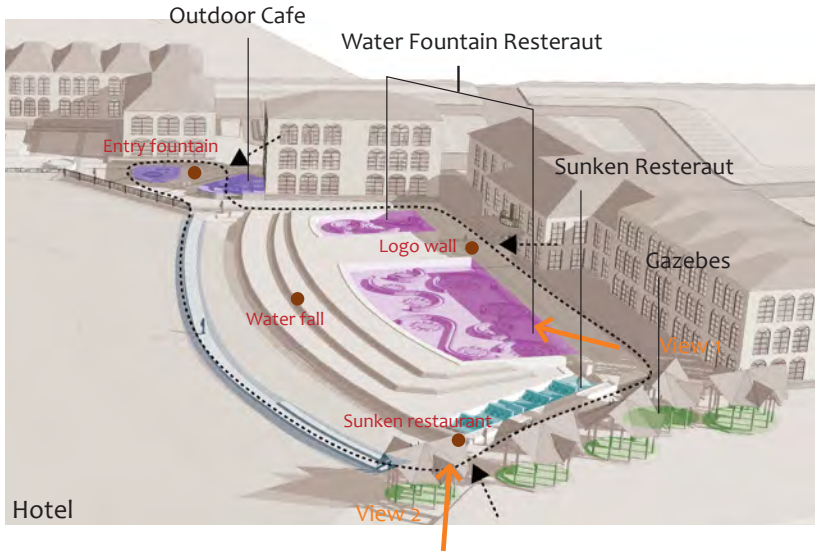
Waterfront Street Circulation



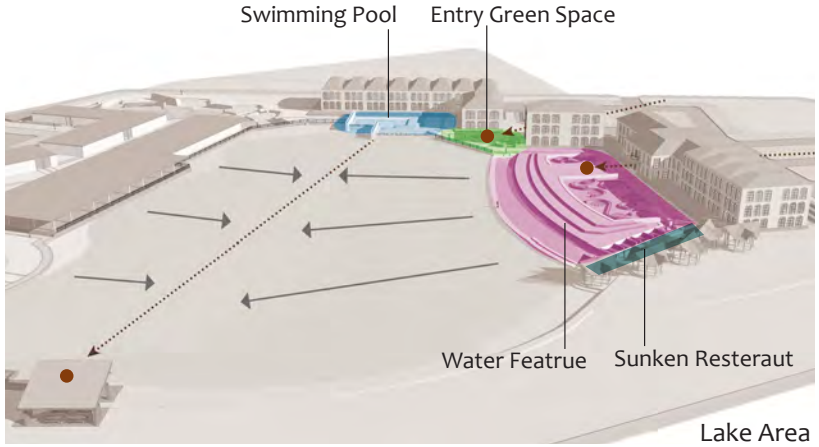
Pedestain flows and Sight directions

Hotel Area

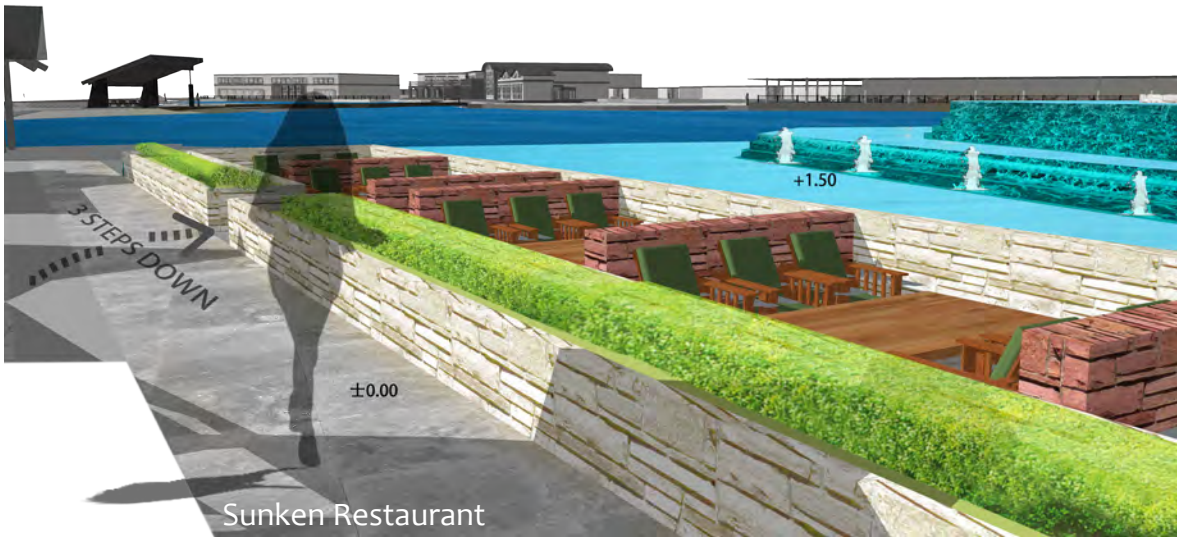
Zones and Sight analysis



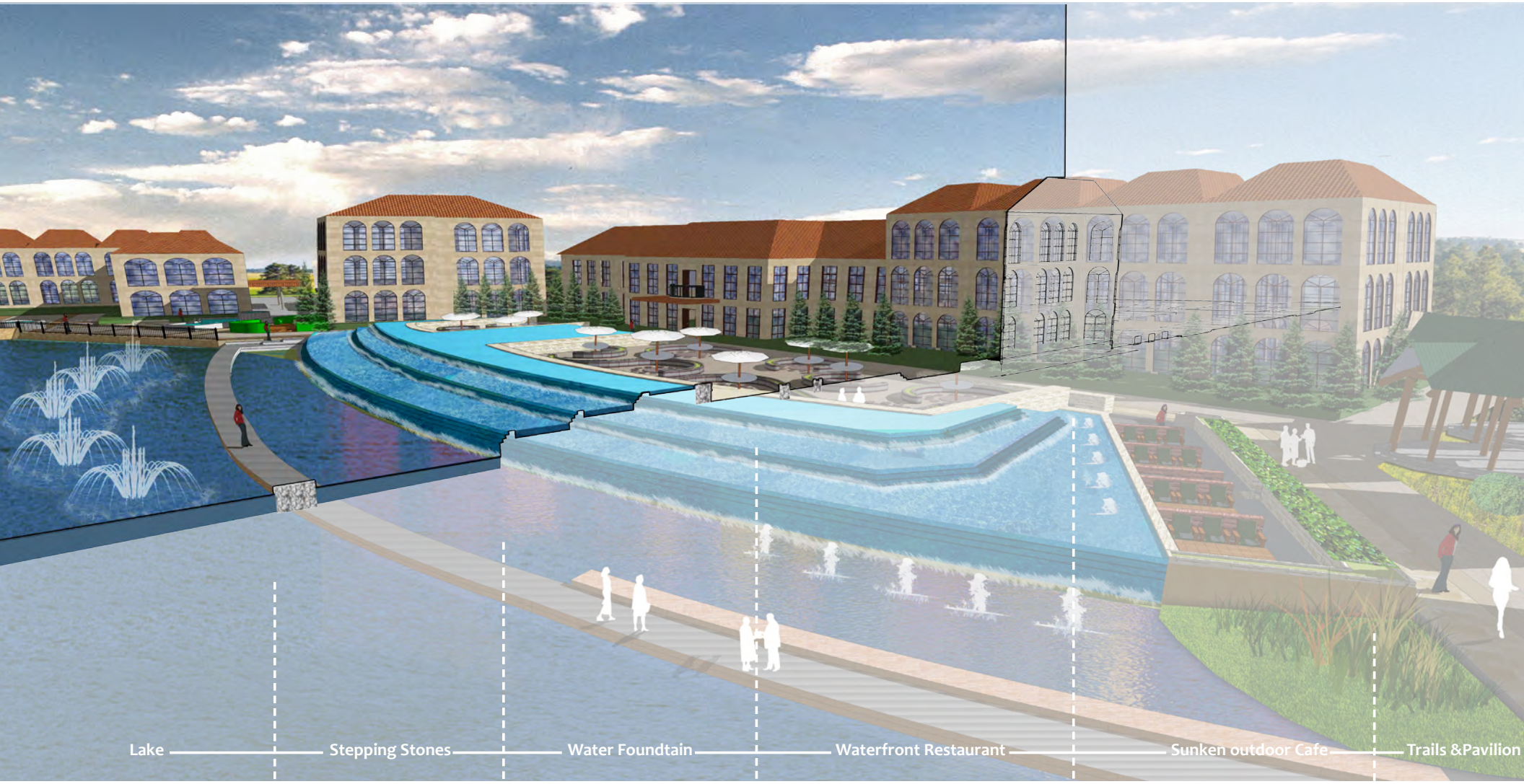
The high-end hotel in the most eastern point of the street continued the theme of water experience. The hotel owns separated facilities with independent management, which includes parking lots, private swimming pools, waterfront restaurant and sunken restaurant.



Multiple view points and water experiences encourage users to love the design deeply.



Hotel Water Feature Section Perspective



Rain Gardens & Aquatic area

Plants

Open Space Plaza

Plants

Prairies

Plants

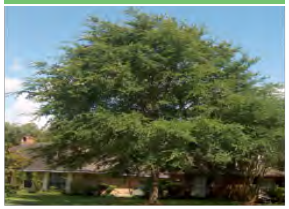
Canopy Trees (Diam. 25')

Post Oak
Quercus stellata

Prairie Sumac
Rhus lanceolata

Golden Rain Tree
Koelreuteria paniculata

Accent Trees (Diam. 18')



Cedar Elm
Ulmus crassifolia

Bald Cypress
Taxodium distichum

Common Pear
European Pear 'Orient'

Big Shrubs(Diam. 10')

Giant Upright Elephant Ear
Alocasia odora

Heavenly Bamboo, Nandina
Nandina domestica

Ornamental Pepper
Capsicum annuum 'Black Pearl'

Flowering Shrubs

Shrub Rose
Rosa 'Basye's Blueberry'

Tea Rose
Rosa 'Mrs. B.R. Cant'

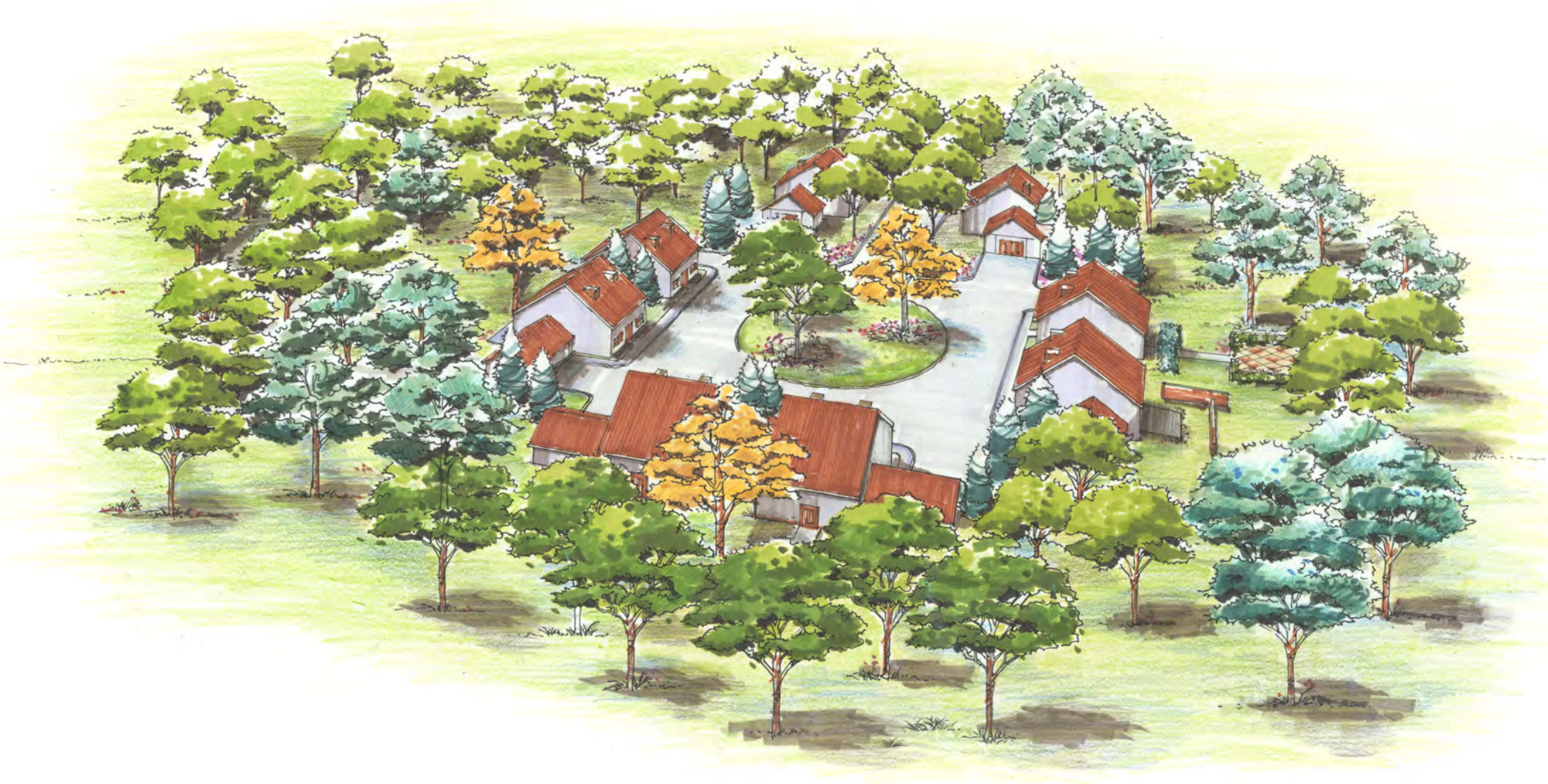
Mexican Sunflower
Tithonia rotundifolia

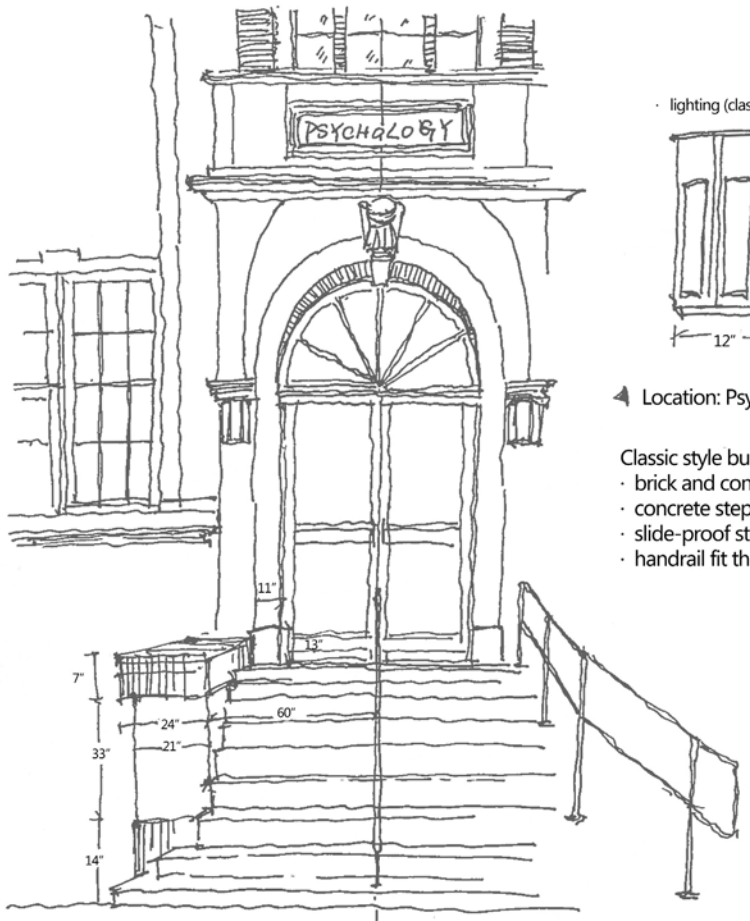
Aquatic Planting

Water Lilies
Nymphaeaceae

Pickerel Rush
Pontederia cordata

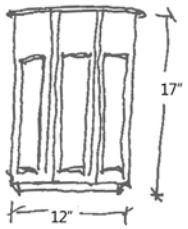
Sweet Flag
Acorus calamus





ELEVATION

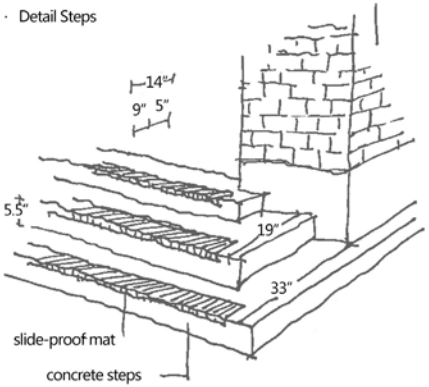
· lighting (classic style)



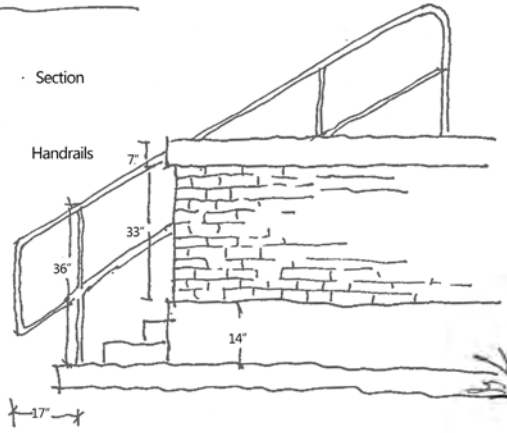
Location: Psychology Building

Classic style building and lighting
- brick and concrete wall
- concrete steps
- slide-proof steps
- handrail fit the form of steps

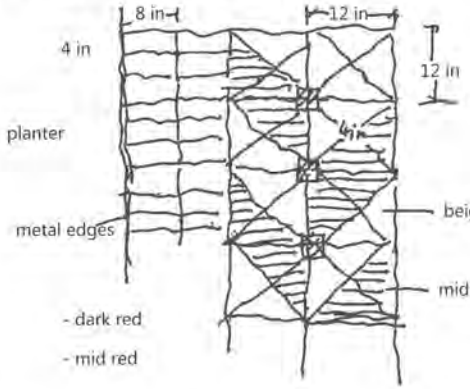
· Detail Steps



· Section

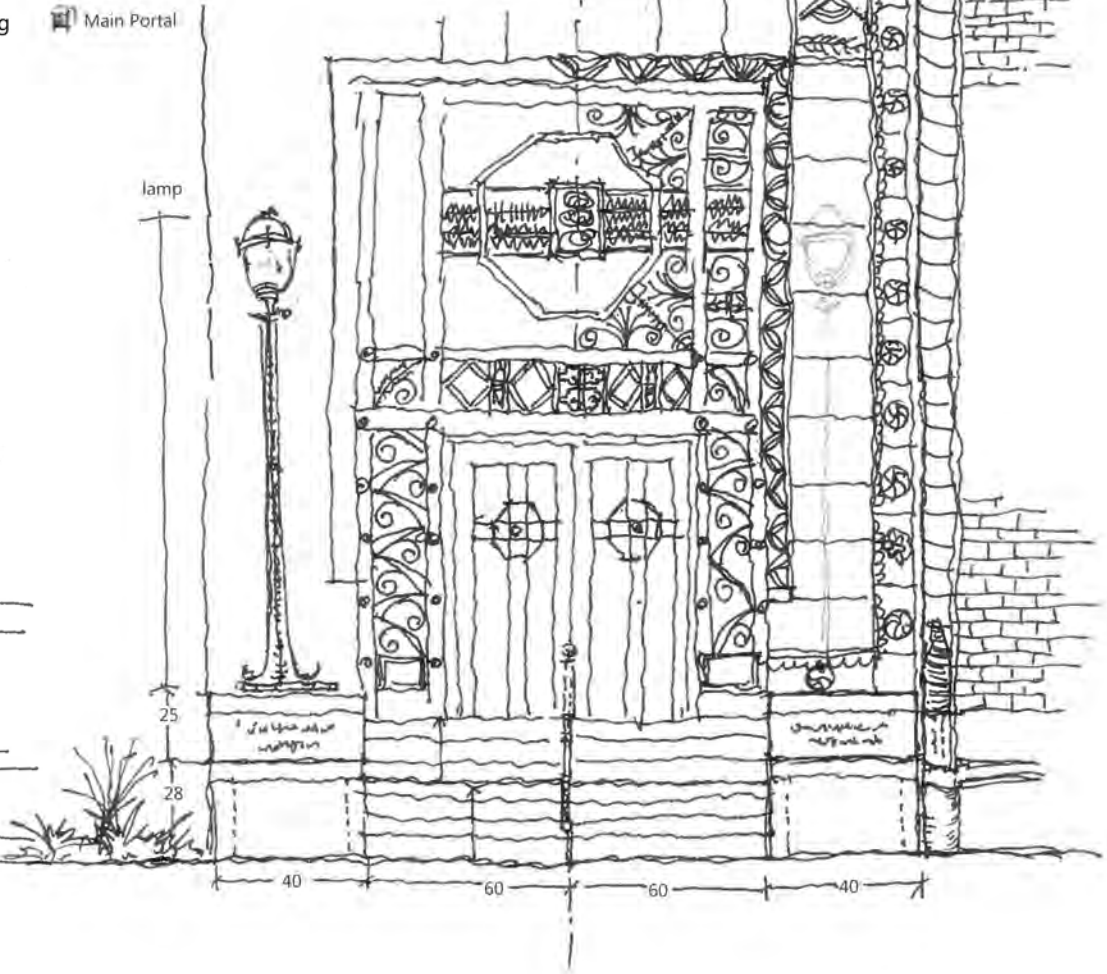


Paving Pattren



Lamp Art Deco Style

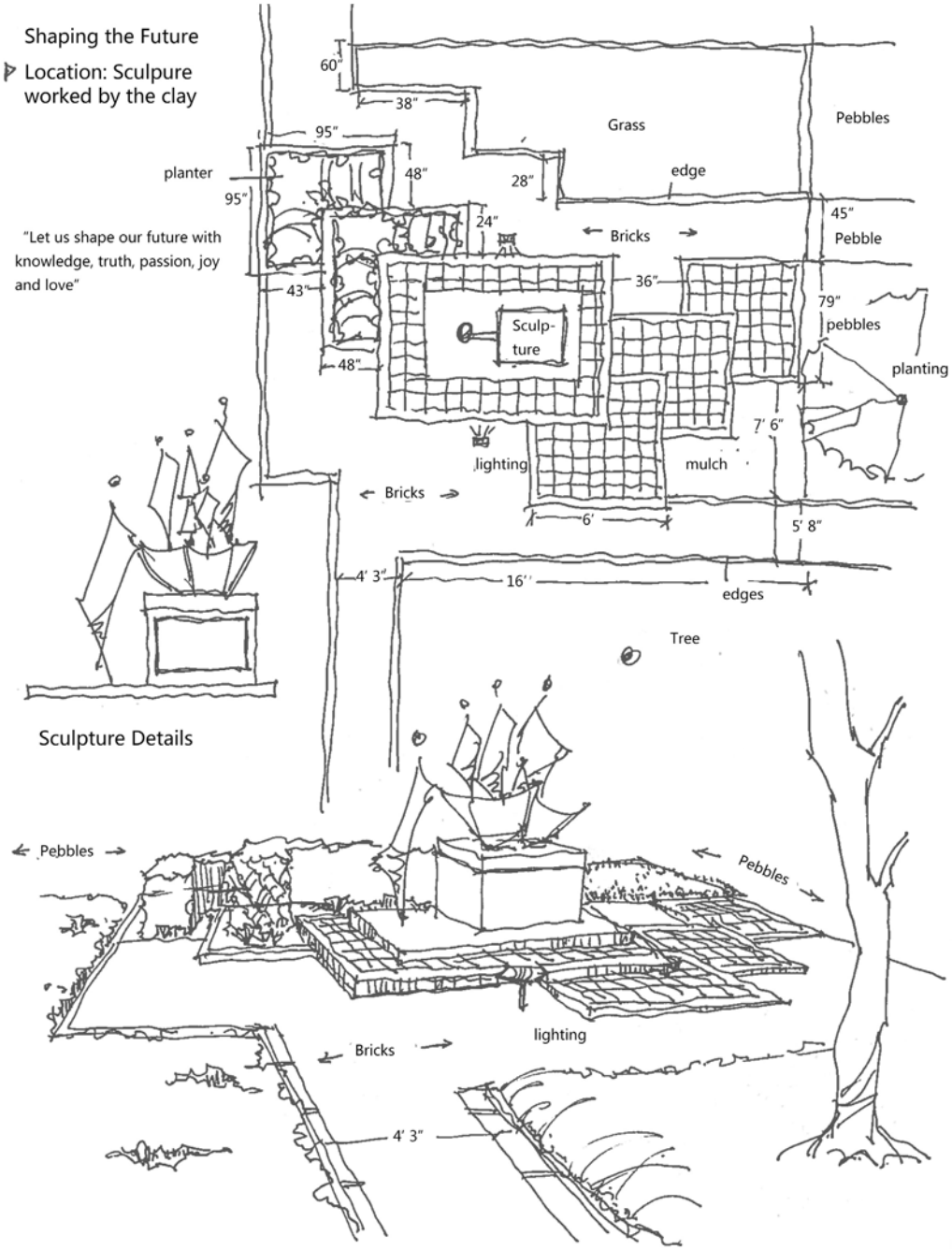
Main Portal



Shaping the Future

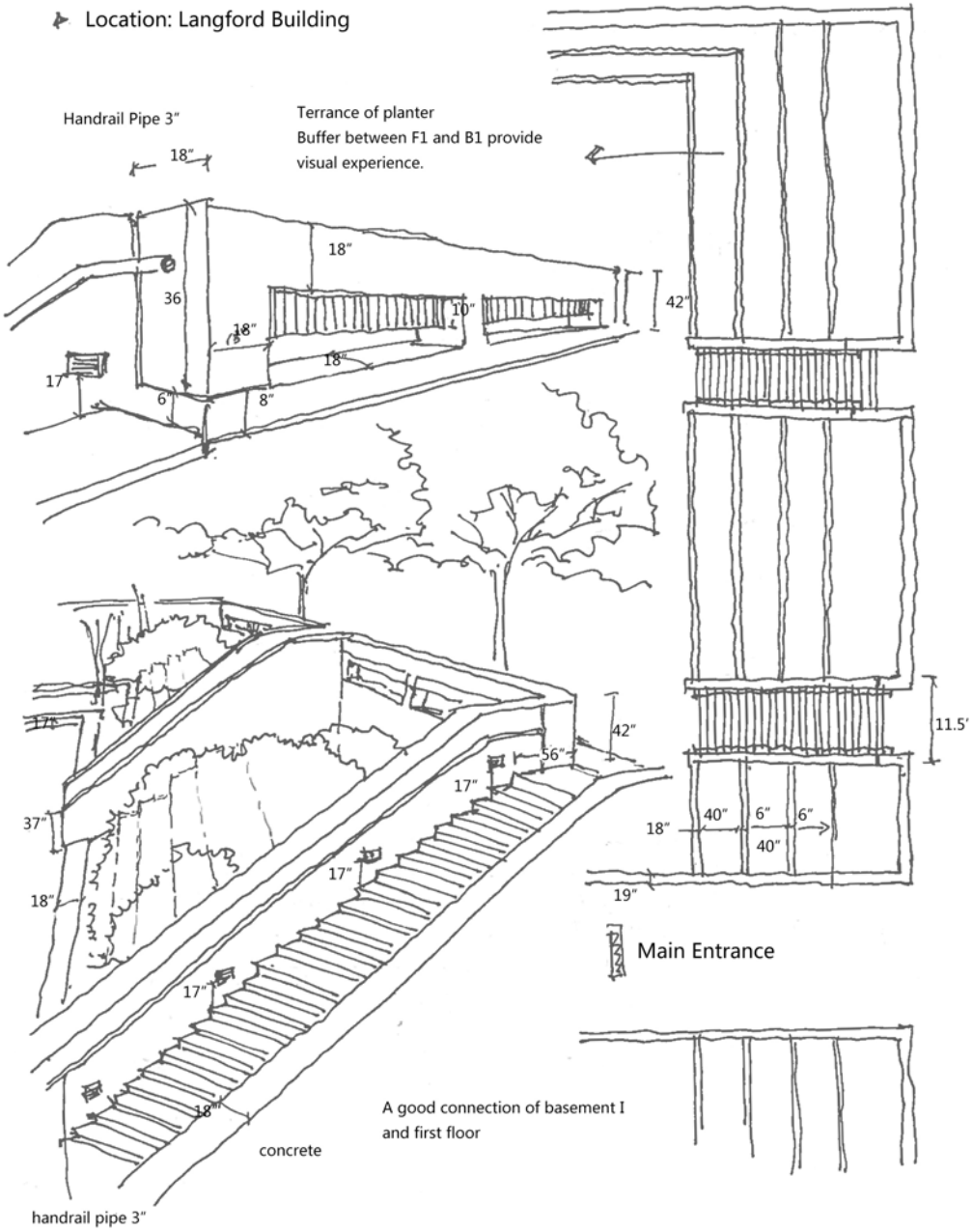
Location: Sculpure worked by the clay

"Let us shape our future with knowledge, truth, passion, joy and love"



Sculpture Details

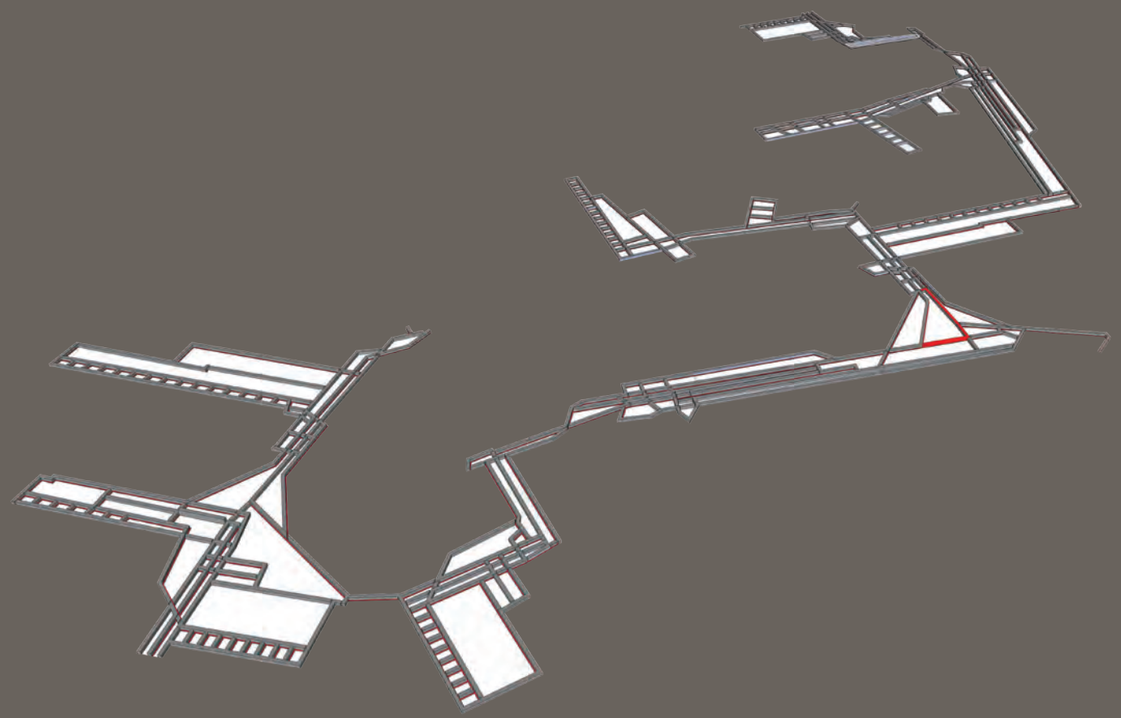
Location: Langford Building



Content

RESOLVE RENASCENCE

The Reasonable Reuse of Abandoned Coal Mine and Urban Garbage



OUTSTANDING PERFORMANCE IN IFLA 2011
ASIA-PACIFIC STUDENT DESIGN COMPETITION

1 LOCATION ANALYSIS

TAIYUAN CITY, THE CAPITAL CITY OF SHANXI PROVINCE,LOCATES IN THE EASTERN PART OF SHANXI PROVINCE, THE NORTEM PART OF NORTHERN-CHINA PLAIN .

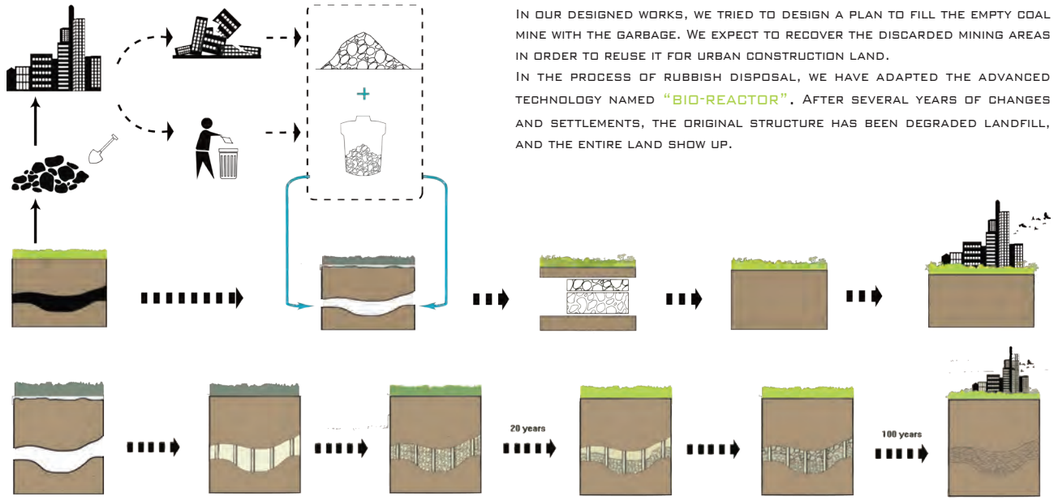
2 PRESENT SITUATION ANALYSIS

MOST OF THE AREAS ARE ABOVE 1,000 METERS IN SHANXI PROVINCE . THESE MOUNTAINS AND THE SURROUNDING FOOTHILLS OF THE RELATIVE HEIGHT REACHED 1,500-2,000 METERS. TERRAIN ELEVATION FORM AN IMPORTANT REASON FOR VERTICAL DIFFERENTIATION IN ALL NATURAL MOUNTAIN LANDSCAPE. FROM THE PROVINCE OF VIEW, YOU WILL SEE THE MOUNTAINS AND HILLS ON EITHER SIDE , WHILE THE CENTRAL BASIN AND PLAIN DURING THE DISTRIBUTION. BECAUSE OF THE SMALL SIZE OF PLAIN AND THE .DENSITY OF POPULATION AND ECONOMIC ACTIVITY IS LIMITED, WHICH RESTRICTS THE FARMING INDUSTRY.

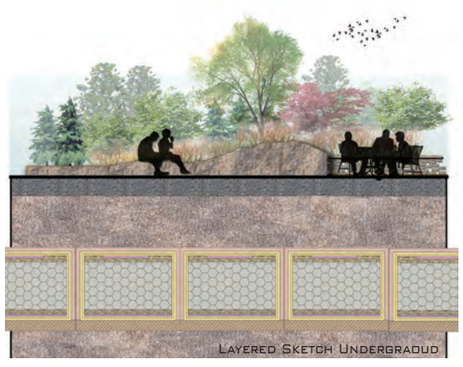
3 STRUCTURE ANALYSIS

THE FOREST LAND AND THE FARM LAND WERE ABUNDANT IN THE PAST , THE FOREST COVER RATE IS CONSIDERABLY HIGH . THE FOREST IN TAIYUAN CITY DISTRICT HAS BEEN REDUCED SINCE THE LAST CENTURY , THE VIRGIN FOREST IN XISHAN MOUNTAIN WAS DESTROYED BECAUSE OF THE EXCESSIVE MINING . ACCORDING TO STATISTICS, CHINA'S URBAN GARBAGE OUTPUT HAS REACHED 150 MILLION TONS BY YEAR OF 2000, COVERING UP TO 60 HECTARES. WHEN A LOT OF RUBBISH OCCUPIED THE CONSTRUCTION LAND, OUR UNDERGROUND MINING FOR COAL ARE GETTING EMPTY. ALL THESE HAVE GREATLY REDUCED THE LAND RESOURCES WE CAN USE AND AFFECTED US SERIOUSLY.. THE CAPABILITY OF RESISTING THE NATURAL DISASTERS IN THE CITY WAS WEAKENED.

THE COURSE OF THE EVOLUTION OF RUBBISH

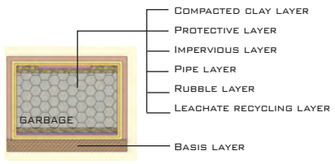


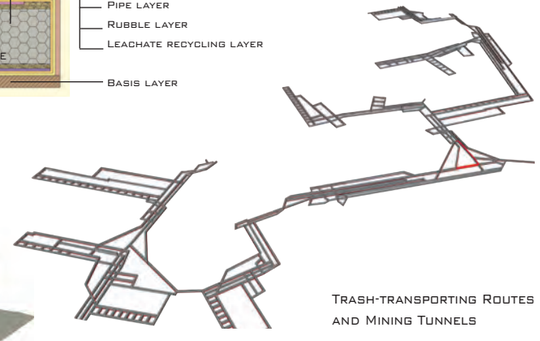
In our designed works, we tried to design a plan to fill the empty coal mine with the garbage. We expect to recover the discarded mining areas in order to reuse it for urban construction land.
In the process of rubbish disposal, we have adapted the advanced technology named "bio-reactor". After several years of changes and settlements, the original structure has been degraded landfill, and the entire land show up.



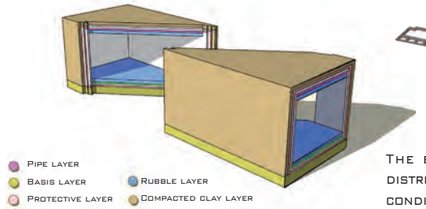
Layered Sketch Undergraoud

Layered Sketch Map For Garrbage Filled Structure



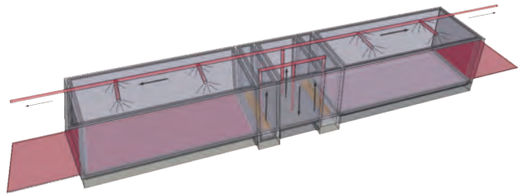


Trash-transporting Routes and Mining Tunnels

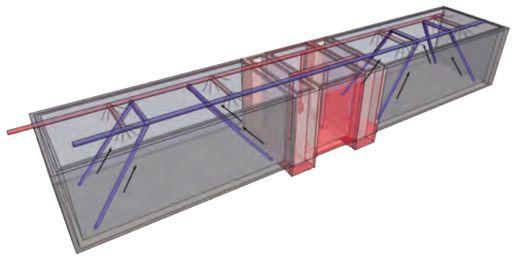


The existing distribution of the mining tunnels is the whole distribution of trash landfill site. We'll make full use of the current condition to take the original coal transport routes and equipments as the trash-transporting routes.

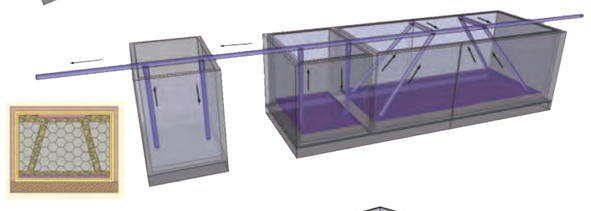
THE PROCESS OF RUBBISH DISPOSED



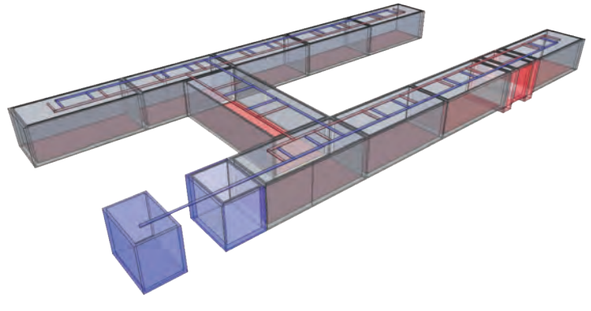
The piping system collects the gas produced in the process of the garbage degradation, and the transfers these gases to the heat factories which can be used for heating, and chemical plants for producing chemical products.



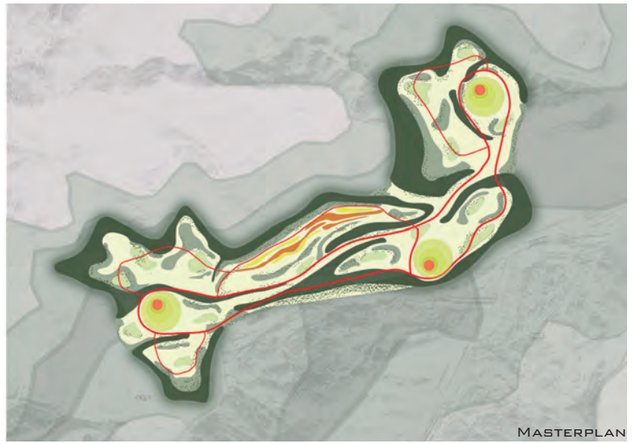
Waste disposal unit would be installing to collect the gas in gravel piping system to avoid the soil pollution releaseing chemical materials in excessive de-gradation.



The waste leachate are collected by leachate recycling layer transferred to the pool pump regulator, and then by pipeline to transport leach ate adjustment pool. Due to lack of water, some garbage disposals maybe not function normally. To speed up the reaction, the Leach ate from the pool can be transported by pipeline to the unit.



As shown in the figure,is a group of representative unit of the trash landfill, including some waste disposal units, one pool which used to regulate leach-ate, two pools for pump and the device to collect the response gas. The whole trash landfill site in the park is consisted of such units.

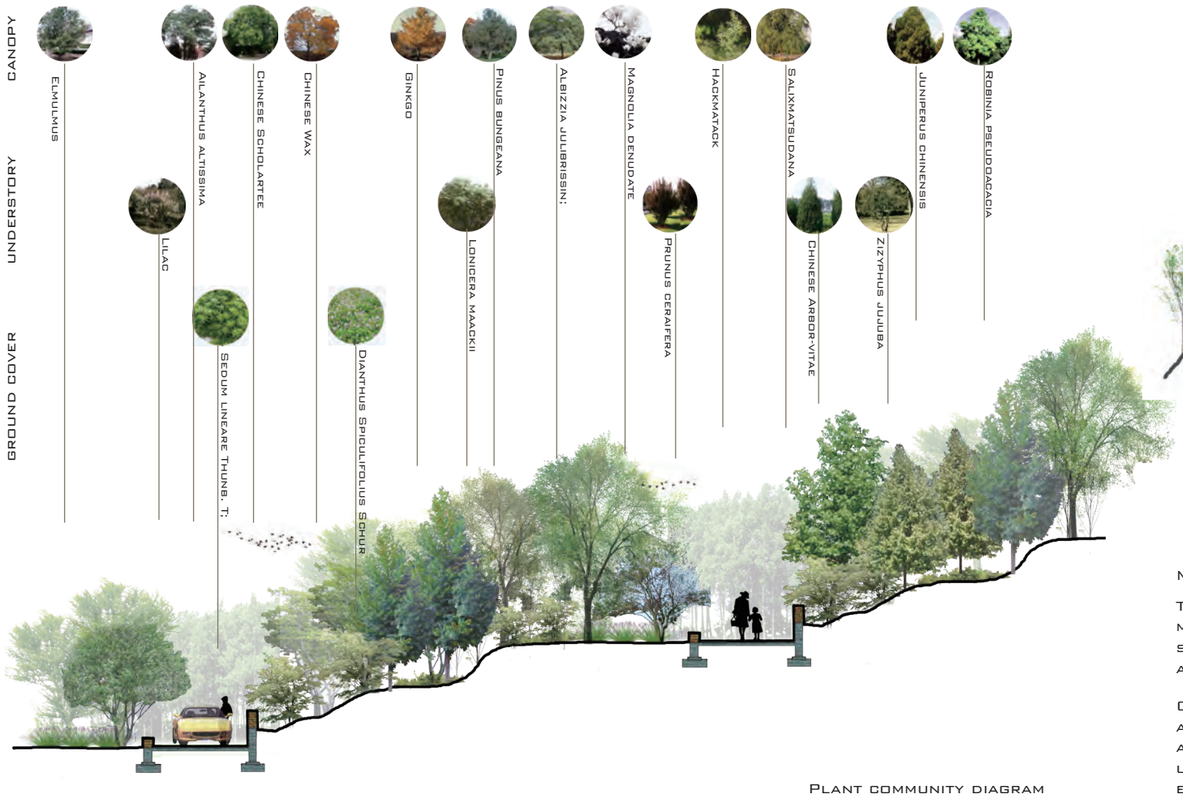


Cope with the repairment of underground empty layer we have to carry out the reconstruction program of the whole mining area. The rebuilding plans combined with the initial landforms, which can keep the environment grow healthy and organic, and also can improve the existing bad environment while preserving the memory of coal mine.

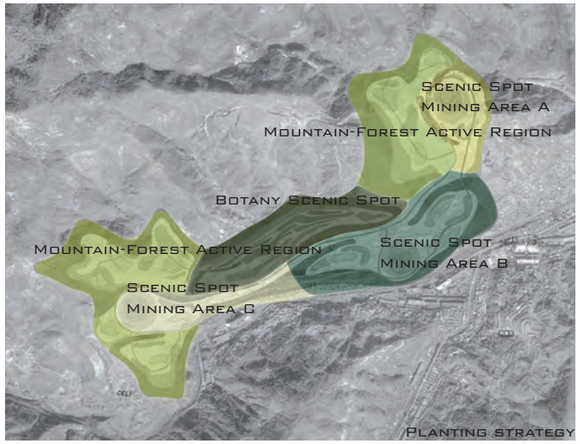
Considering residential area fading, the site will be gradually replaced, Environment surrounding would change, then plant may contribute to the view most, avoiding artificial design and enable them to grow organically.

The sight on the hillside mainly is mountain-forest scenic which form a natural boundary, where are left some small sites for to activity for human.

Valley is the main active region in the whole garden, the gamma-radiation which come from the three mine enterence of original site give birth to the new related scenic, such as the wall and trails which record the history of the site meaning as "reform or the evolution of of coal".



Plant community diagram

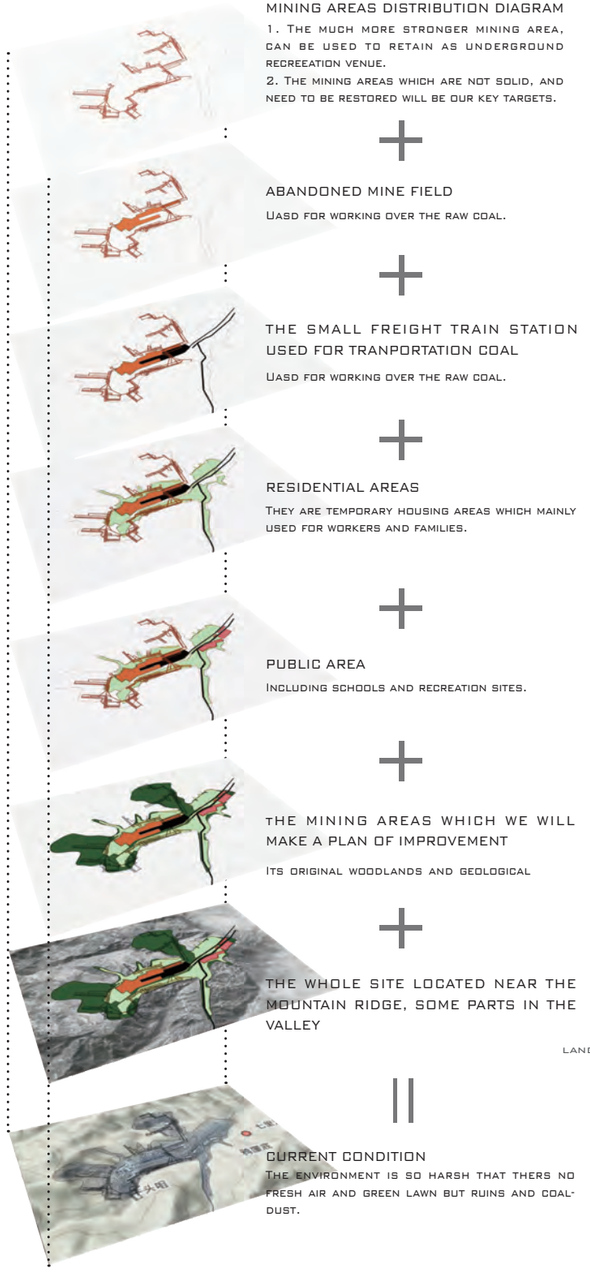


Make the abandoned coal mine areas into Greenland

The whole area is divided into five major areas: mountain-forest active region, botany scenic spot, the scenic spot of mining area A, the scenic spot of mining area B, the scenic spot of mining ar--ea C.

On the choice of plant species, species which can against pollution and grow in relatively fast speed are our first choices, because they can make the full use of restoring the soil and lightening contamination effect.

Functional Structure Analysis



Mining areas distribution diagram

1. The much more stronger mining area, can be used to retain as underground recreation venue.
2. The mining areas which are not solid, and need to be restored will be our key targets.

+

Abandoned mine field

Uasd for working over the raw coal.

+

The small freight train station used for tranportation coal

Uasd for working over the raw coal.

+

Residential areas

They are temporary housing areas which mainly used for workers and families.

+

Public area

Including schools and recreation sites.

+

The mining areas which we will make a plan of improvement

Its original woodlands and geological

+

The whole site located near the mountain ridge, some parts in the valley

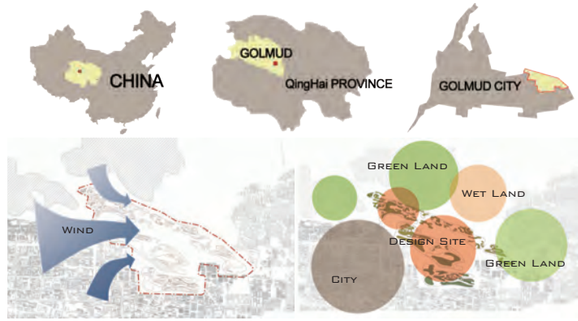
=

Current condition

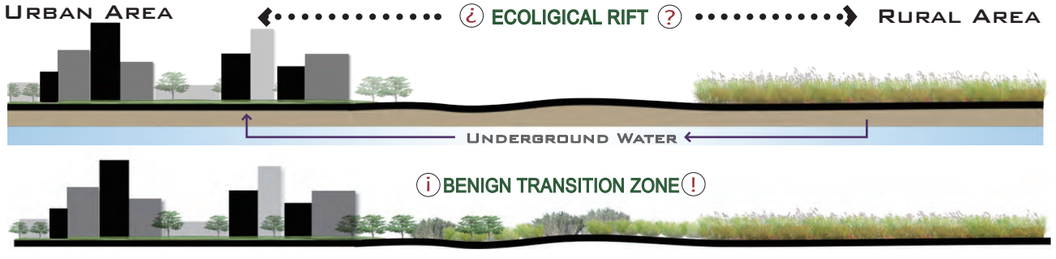
The environment is so harsh that thers no fresh air and green lawn but ruins and coal-dust.

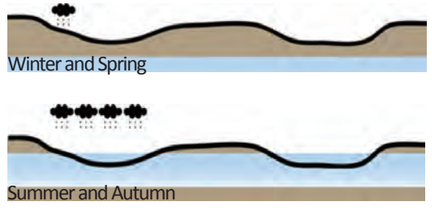
REGAINING BREATH

A Landscape Design of City Edge__
Protection Using Wind and Rime of Golmud



The selected site is located in Oasis-Desert Zone, which placed between the city and outlying farmland, and the vegetation of the sites is sparse and ecology is fragile. Since the development of local agriculture and animal husbandry, the ecotone is being occupied gradually, and resulting in severe land degradation and desertification. All of this leads not only to wasting the lands resources, but also to a serious threat of security of city face. Therefore, building a natural green barrier to protect the city environment is necessary and urgent.



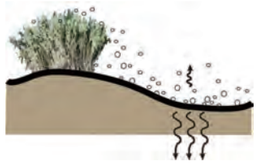


"ecological rift".

Urban areas and desert ecotone between the belt sometimes form a degradation of the ecological environment of desert zone, of which the ecological quality is not only lower than urban areas, but also lower than desert.

The formation of "Eco-rift" is due to excessive exploitation of groundwater of urban areas and agricultural areas for urban construction, living water, irrigation, etc.All of this would lead to Changes in the form of groundwater recharge: groundwater ecotone from the outskirts of the city reverses back to the city and farm supplies, and groundwater recharge through desert vegetation to survive begins to decline.

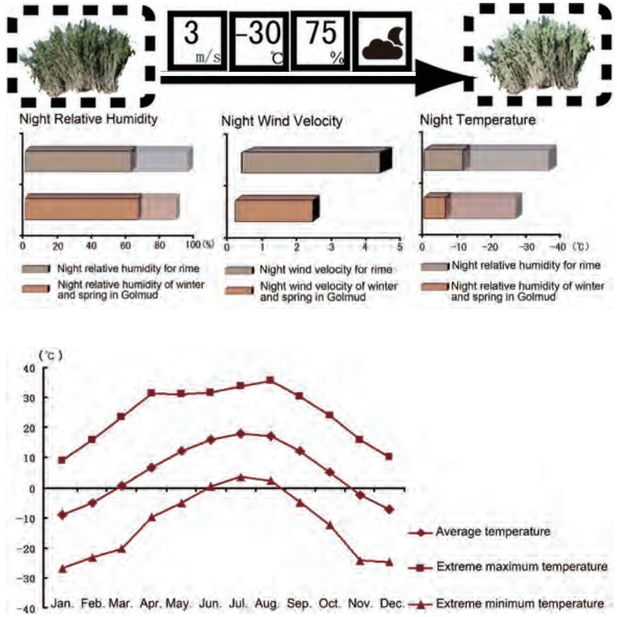
Solusion 1



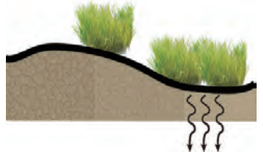
We found that the main issue of plant-growing problem is the weather dryness in spring and autumn, and proposed a method using the concept of grasp the moisture content in air to improve the soil condition—Rime water.

Plant the flora, which is mainly consisted by Haloxylon and Populus, in the higher ground field, to meet the conditions of formation of rime.(local climate conditions makes of the rime is soft rime, can be blown down)

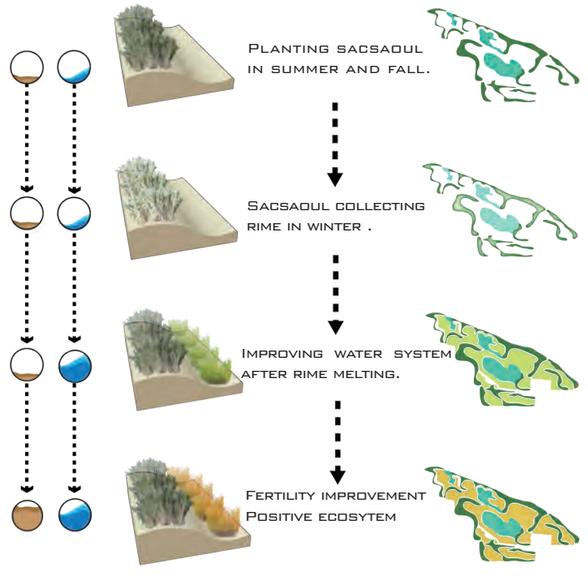
Until the winter and spring, the soft rime generated by the Haloxylon will be blown down to the ground, and gather into a large scale in the lower ground field, then permeate into soil slowly. This phenomenon increases the surface soil's water content greatly in spring, and also results that plants can be grown in the soil condition modified.



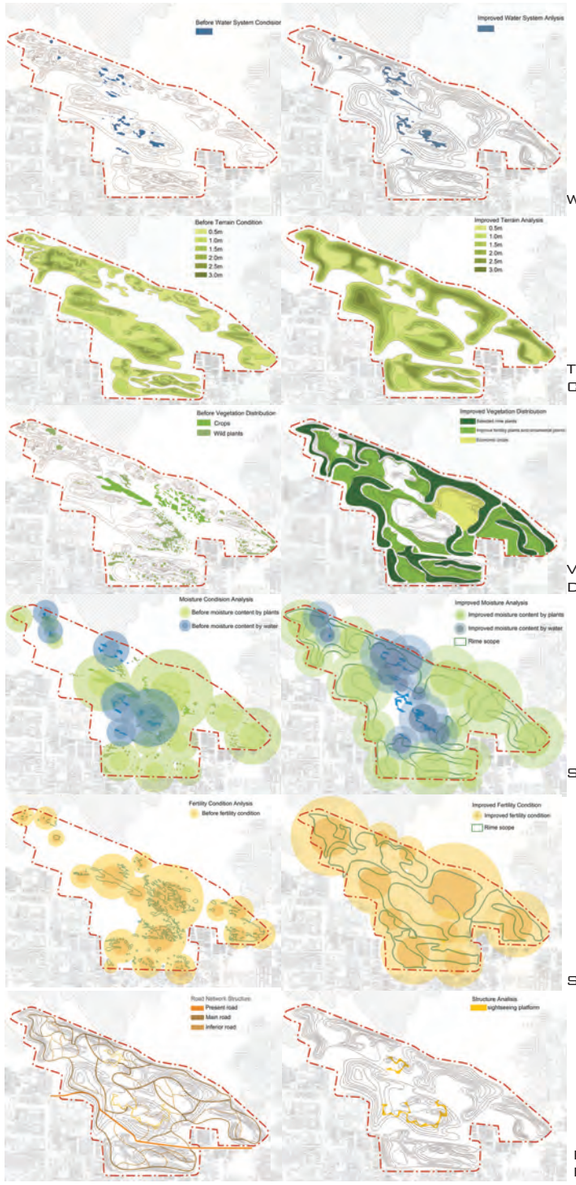
Solusion 2



Planting the green manure plants in the dene is an economical and efficient way to improve the fertility of desertification land, providing an outstanding function of improving the leanness dene.



IMPROVEMENT ASSESSMENT



Water System

Terrain Condision

Vegetation Distribution

Soil Moisture

Soil Fertility

Functional Framework

MASTERPLAN

Select rime plants

Improve fertility plants

Ornamental plants

Economic crops

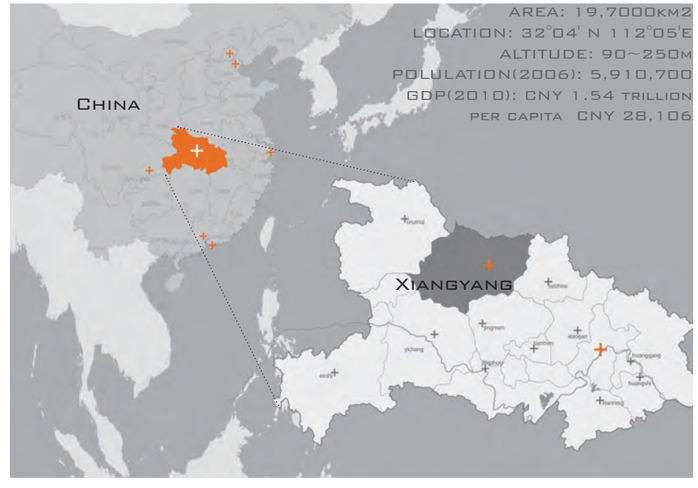
Final Design

The total rainfall quantum for a whole year of Golmud isn't large, and rains in summer and autumn is significantly more frequent than in winter and spring, leading the surface soil of Golmud quite dry in winter and spring.
And the ecotone is the most affected area by human activity areas. human over-development and farming not only reduces the biomass, but also spur soil physical and chemical properties to make significant changes : more compact soil and destroyed granular structure. Therefore, the field water holding capacity, penetration and fertility decline.

When the city of Golmud is suffering a change from past oasis into barren land in the development of the edge, we should introspect on our behavior, and thus concern more about the edge of the city's ecological environment? With the advent of Rime of the wind, long silence of the land would usher in a new breath and life once more.

Summer Effect

Winter Effect



LIANSHAN LAKE
International Eco-Community 472ha.=Eco-Park (275ha.)+Community(197ha.)

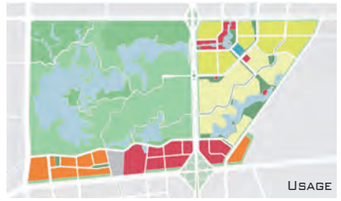
The site is located in the south of Xiangyang Tech-Business District. The distance from site to Xiangyang city center is almost 10 Kilometers.

Lianshan lakeInternational Eco-Community is 472ha.totally, including two parts, Eco-Park(275Ha.)and Community(197Ha.)

Workscope includes the understanding and analysis of Lianshan Lake region on the existing condition and future development plan, to provide a feasible program strategy, position, and a conceptual landscape design.

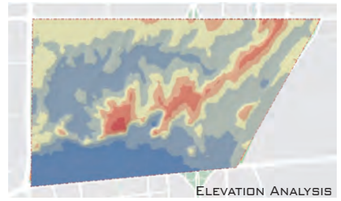
There are some public infrastructures and abandoned land, and a large area of farmland at the east and north; at the west, there are existing forest, undeveloped land and Lianshan Lake Reservoir.It was land use for reservoir and farm. There are also some public infrastructures, a TV tower and a shooting range.

Based on the planning road system, the site has Fukang road connect to the Dongfeng Vehicle Cty; Benz road and Xijing No. 4 road connect to the New Technological Industrial District, Zhuanshi road, Baitang River birdge connect to the New Region and the city center. The vehicle research center and vehicle test station is at the north.



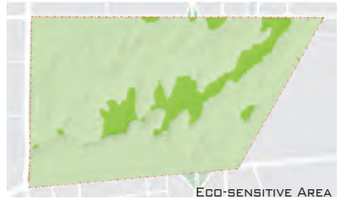
Commercial Area 22ha. 4.66%
Entertament Area 7.23ha. 1.53%
High-end Residential 39.06ha. 8.28%
Mix-used Area 20.49ha. 4.34%
Facility 1.05ha. 0.22%
Green System 190.24ha. 40.31%
Water System 88.52ha. 18.75%
Road System 69.02ha. 14.62%

Usage



65-70(m)
70-75
75-80
80-85
85-90
95-96

Elevation Analysis



High
Medium
Low

Eco-sensitive Area

High
Medium
Low

Gradation

Suitable for Development
Med-level Development
Low Development

Eco-adaptation

Civic Bay

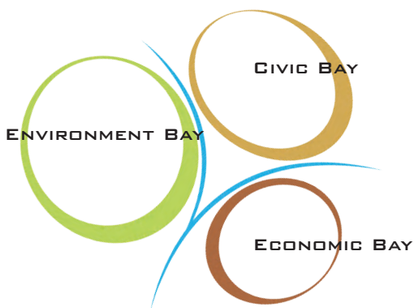
In the proposed land use, the Lianshan Lake International Community is located at the east of the park. Some more other communities and residential service is located at the south.

Environment Bay

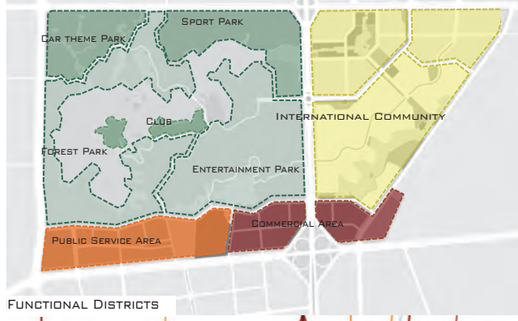
Lianshan Lake Park, as a city park, is supposed to be one of the three-lakepark system, including public green spaces and public infrastructures.

Economic Bay

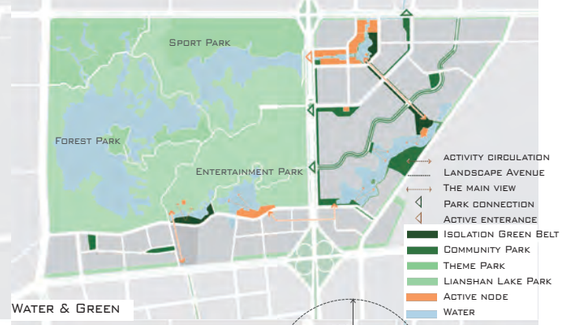
Some commercial service, considering transportation condision, is placed in the south to face the need from Xiangyang City center.



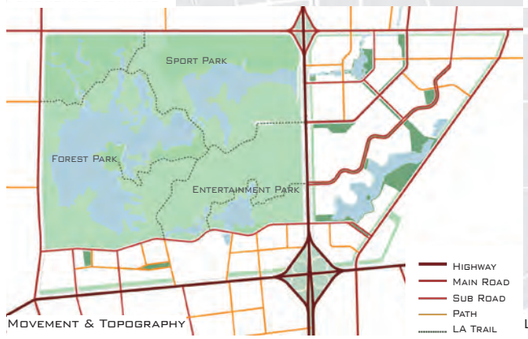
Masterplan of Eco-Community



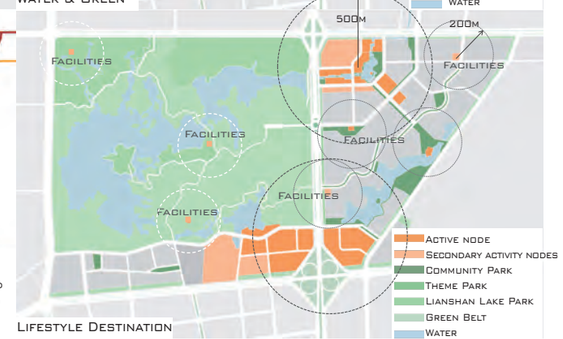
Functional Districts



Water & Green



Movement & Topography



Lifestyle Destination

LIANSHAN LAKE International Eco-Community
-City park design

1. Strength

Nature condition is well, topography changes vast.

2. Weakness

Cliff cuts the site apart, and the connection is weak. The utilization of the land is low.

3. Opportunity

The site is located in the core area of the Technology Business District, and has much developing potential.

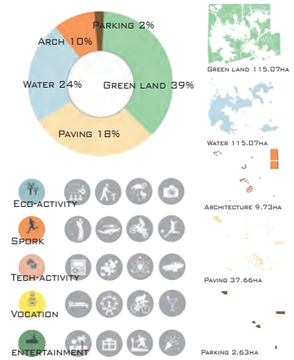
4. Threat

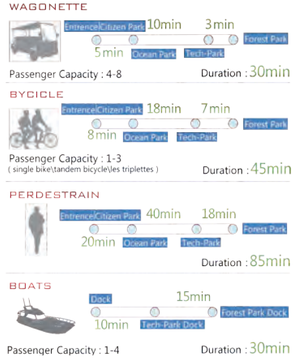
The area of the site is huge. How to make full use of the land and influence the surroundings positively? How to conduct the park and get affluent profits?

Masterplan of Eco-Park

The Lianshan lake Park area was enlarged to 74.12 hectare with the original area remained. The most part of paving area was left in entrances and Ocean Park; and most of them were combined with building and facilities, some of which were used as parking field.

The whole Lianshan lake Park was constituted by three areas, ABC. We aimed to create a park full of scenery and rich views. The park would be a sequence of dynamic spaces form continuity of public activity to intimate area. At the same time, part of eco-park was much higher than Entertainment Park in elevation. Accordingly we also offer a number of cohesive ways, such as feature structures, based on the original terrain, to reflect the trends of level forming a good visual experience of a comprehensive Park.





Functional Aera

Activity Analysis

Landtype Analysis

Circulation

LIANSHAN LAKE International Eco-Community
-Water system design

Existing Issue

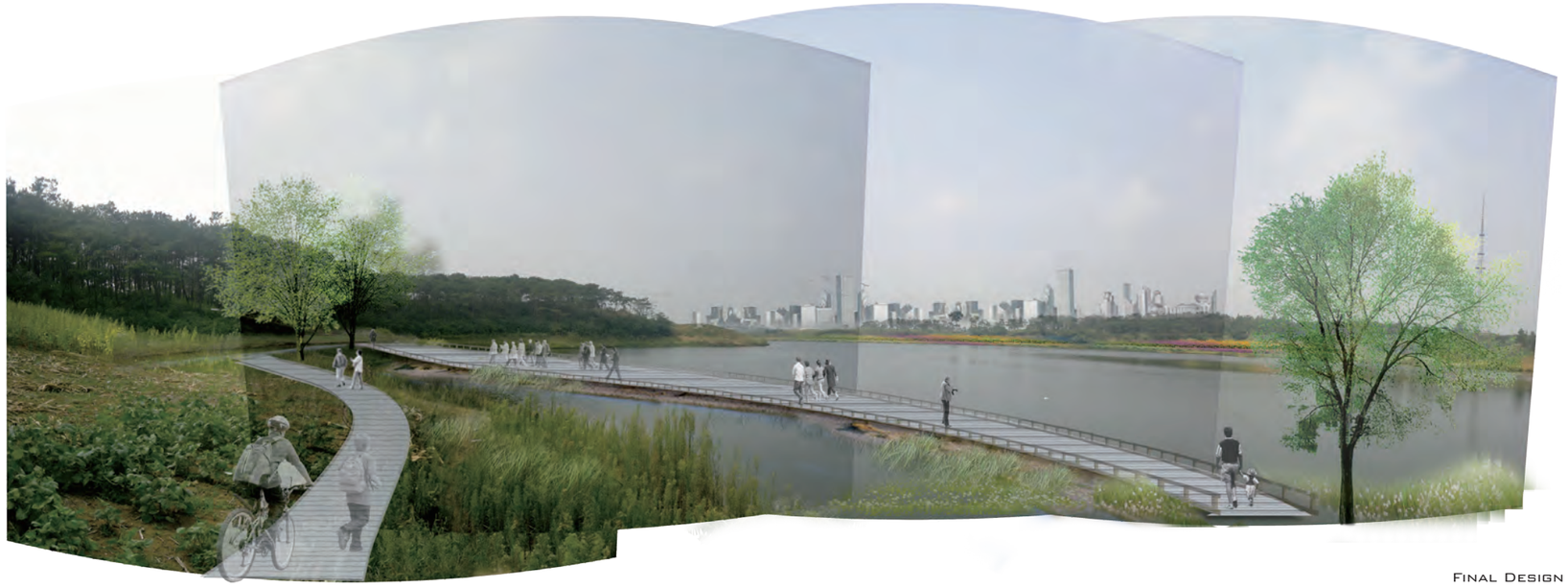
Shortage of fresh water leads to a bad circulation water quality.

Challenge

How to make a healthy water system?

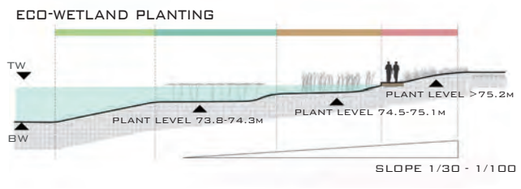
Strategiesv

1. Increase the area of the water by the valves, dams and water from the other reservoirs.
2. Take use of **the topography** to connect the waters.
3. Use **eco-wetland planting** to improve the quality of the water and create a fantastic watersacpe



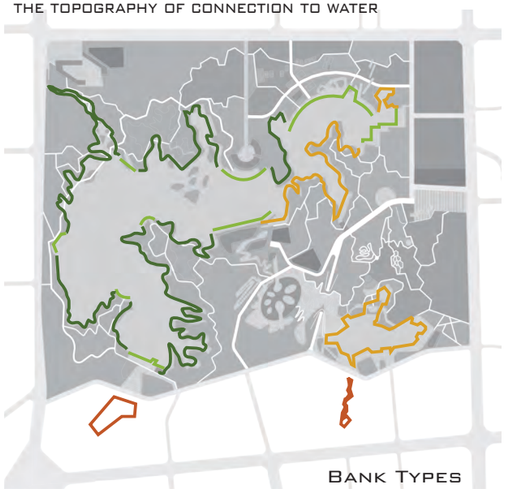
Final Design

ECO-WETLAND PLANTING



- 75.2m-75.8m Hygrophytes
- 74.5m-75.1m Emergents
- 73.8m-74.3m Submerged & Floating leaved
- Bottom of Lake Scattered Rock

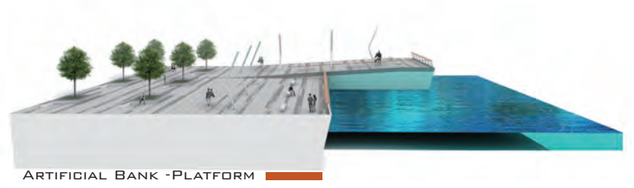
THE TOPOGRAPHY OF CONNECTION TO WATER



Bank Types

There were four kinds of main shoreline treatments. Bank -platform, as well as interactive bank -steps, was dominated by artificial shoreline; while the shoreline of eco-parks was inclined to be more natural, in some of which a wooden platform was provided in spaces accessible to water.

Pure Nature Bank

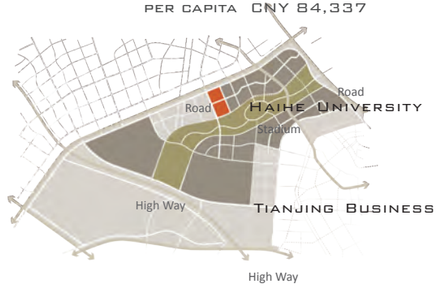


Artificial Bank -Platform

Nature & Relax Bank

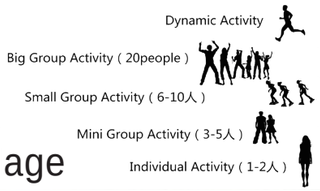
Artificial Interactive Bank -Steps

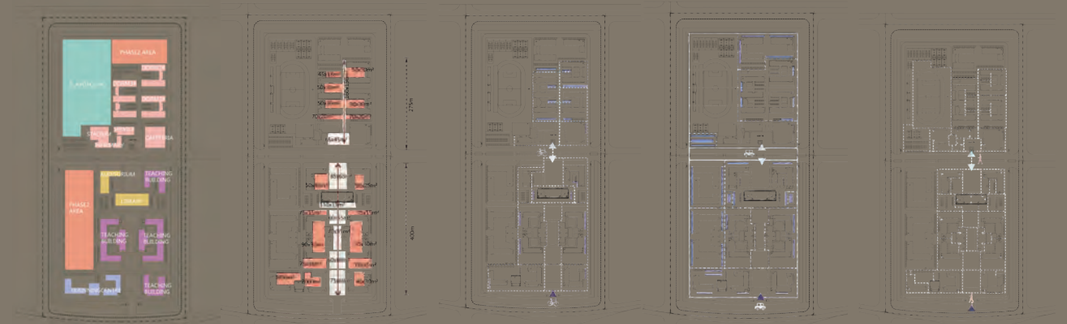
AREA: 11,920 KM2
LOCATION: 39 ° 10'00 "N 117 ° 10'00" E
ALTITUDE: 2~5M
POLULATION(2006): 5,910,700
GDP(2012): CNY 12885.18 TRILLION
PER CAPITA CNY 84,337



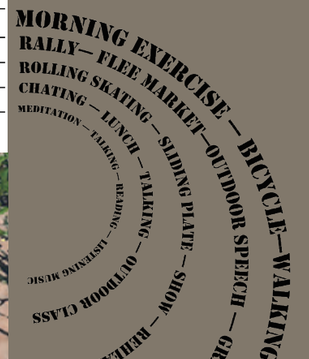
WORK 4 PRACTICAL

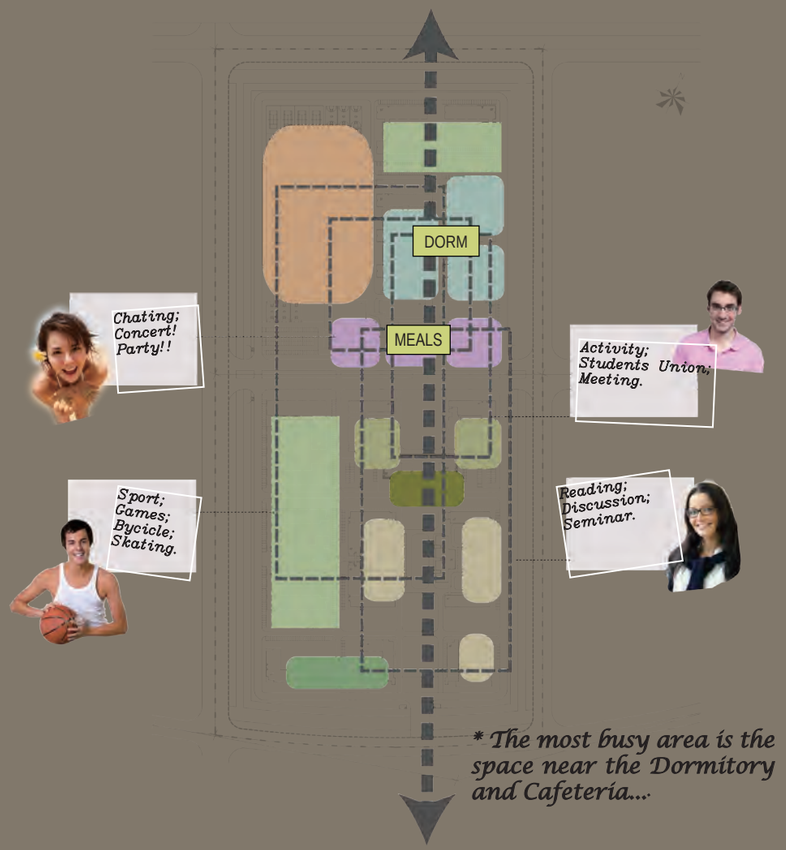
HAIHE UNIVERSITY PARK -Tianjing Business Collage





Site Functional Analysis Dimension Analysis Vehicle Circulation Bicycle Circulation Pedestrian Circulation





Masterplan

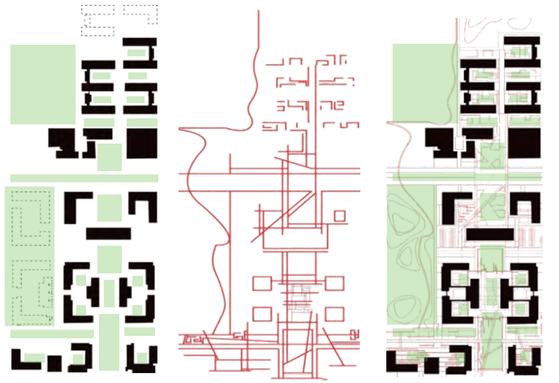
DIVISION + CONNECTION + RESTRUCTURING

Architecture Enclosing Space

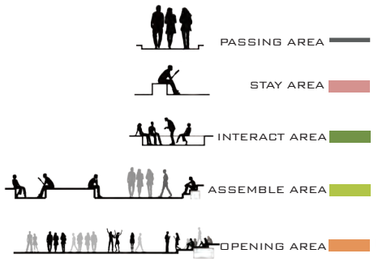
Dynamic Path
Space Defined Line
Landscape Structure
Pattern

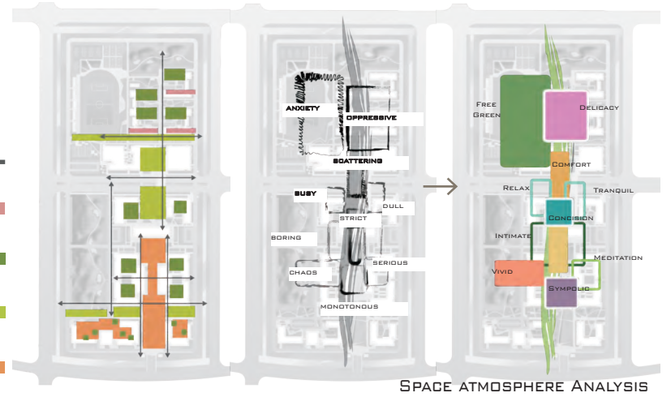
Space Defined
Attribute Of Different
Spaces
Behavior Guide

The factor of beauty in Geometry is analyzed by means of aesthetic of Landscape.



AREA LINE BLOCK



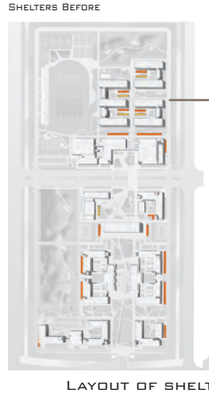


Space atmosphere Analysis

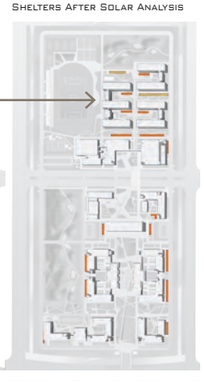
Solar energy Analysis

The layout of solar bicycle shed, considering solar analysis:
Solar Bicycle shed are located in area with sunlight more than 8hours per day to ensure efficiency of solar panels.
The areas, without 8 hours sunlight per day, are defined to be lack of sunlight, such as the area near auditorium. It is not advisable to install solar bicycle shed in these places. Solution: moved solar bicycle shed from place, with etiolated sunshine, to the area in the north of dormitories, which would bring more space for vitality in front of the building and guarantee the usage of solar panels.
The area of solar bicycle shed: 3,964 m2

Shelters Before

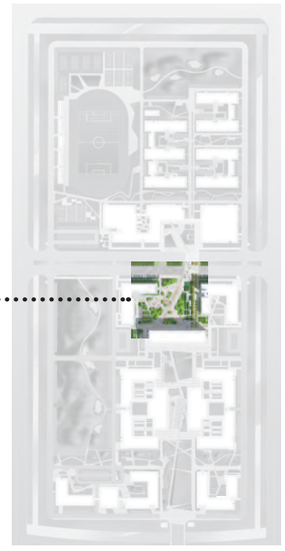


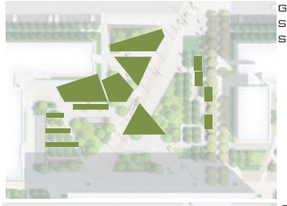
Shelters After Solar Analysis



Layout of shelters with helioplant

PLAN OF OF AUDITORIUM SPACE



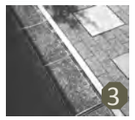


Gathering Space;
Separation by Circulation;
Sized by Function.

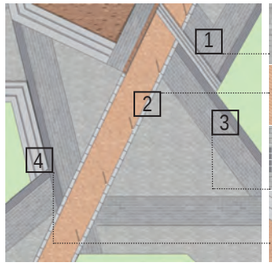
Platform Space;
For rehearse near the theater;
Small lectures and performances.

Transport Strike;
to meet a lot of crowd in the east of the square;
Adapt square in front of the cross traffic.

Spatial Analysis;
Spatial characteristics from static to dynamic changes;
Space Pattern.



Design of Paving

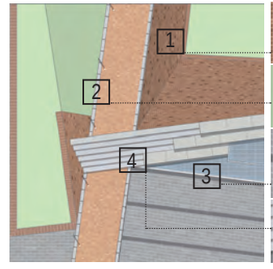


Brick (240MM*115MM)
Med Gray+Light Gray

Granite (240MM*115MM)
Med Gray+Light Gray

Cobble Stone
(100MM*100MM) Dark Gray

Granite Steps
Light Gray



Brick (240MM*115MM)
Dark Red+Med Red

Brick (240MM*115MM)
Med Red+Light Red
Granite (1000MM*400MM)
Light Gray

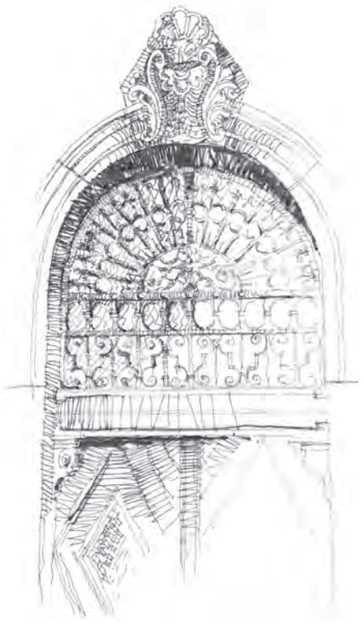
Granite (1000MM*400MM)
Light Gray
Granite (800MM*300MM)
Med Gray

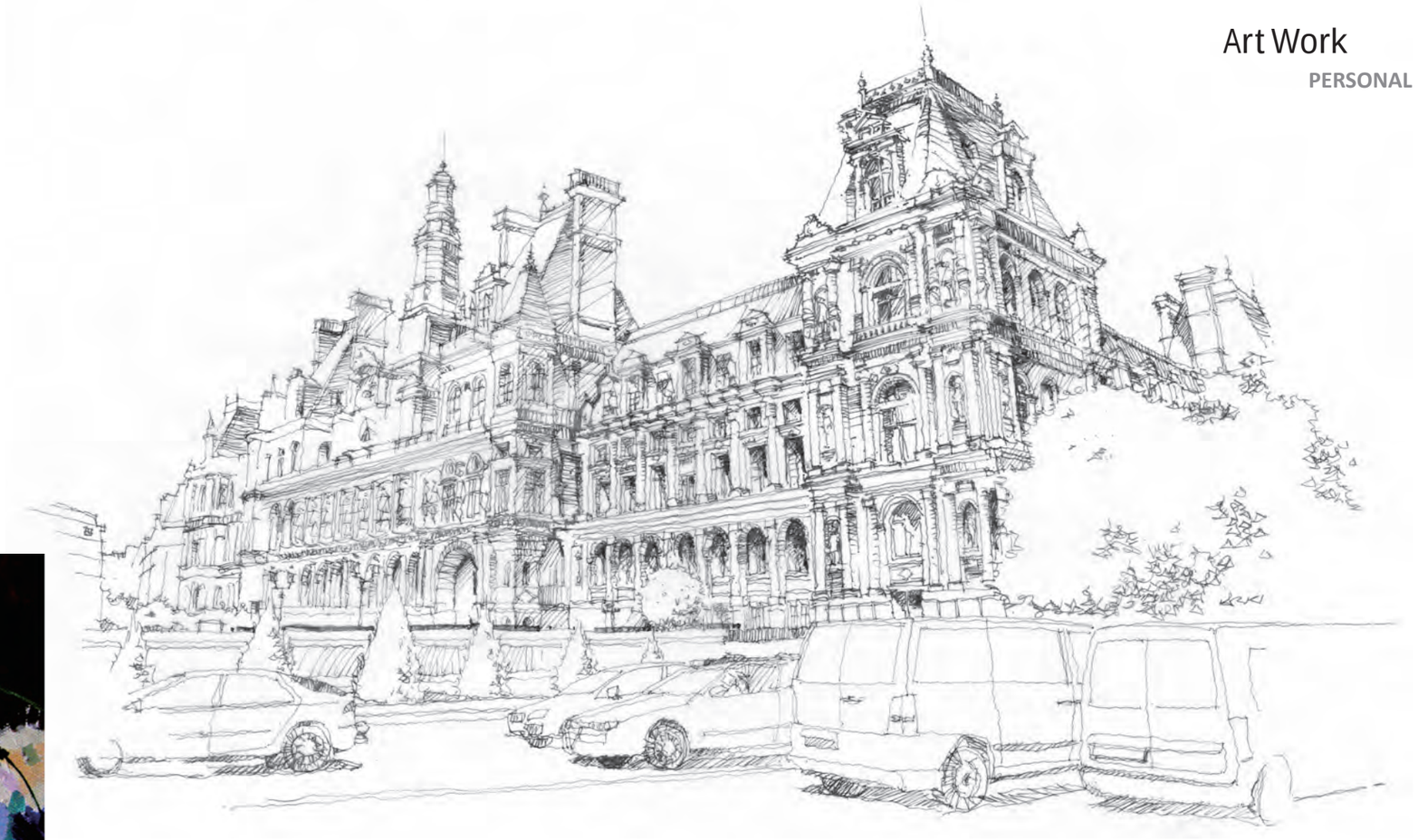
Granite Steps(2000MM*500MM)
Light Gray
Bottom of Water Feature
Black, Polished

Design of Lighting

Effect in the day

Effect in the night





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