

Planning
Design
Architecture
Engineering

CAO, Yangye Howqy Group PORTFOLIO

Selective work 2009~2012

YANGYE CAO

sustainable

residential design

planning

▲ PROJECTS

PROFILE



YANGYE CAO

Major: Landscape Architecture

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Pencil sketch
Marker & Photoshop rendering
Sketch-up modeling

■ 5. GRAPHIC WORK

Pencil sketch & Marker rendering

CAO' Yangye
Howay Group

ISLAND PARADISE

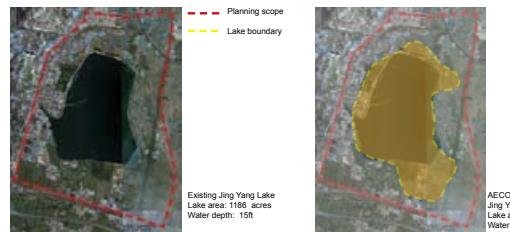
LAKEFRONT PARK DEVELOPMENT

PROJECT LOCATION: Taiyuan, China

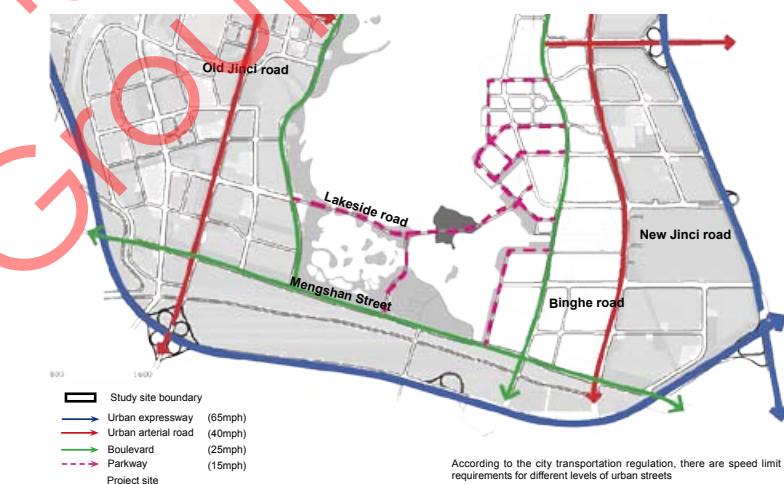
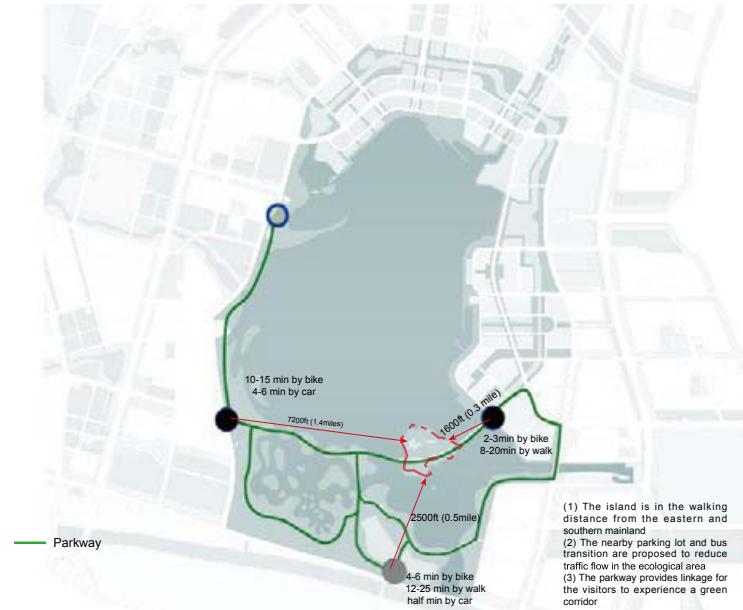
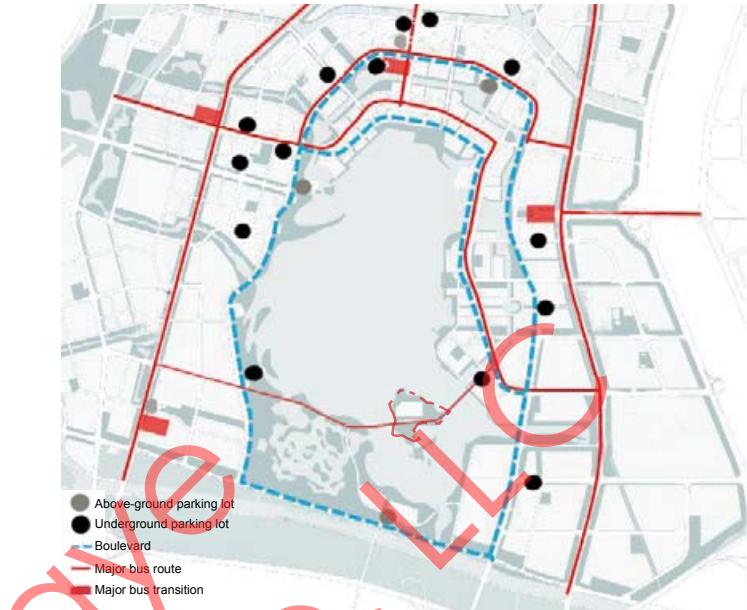
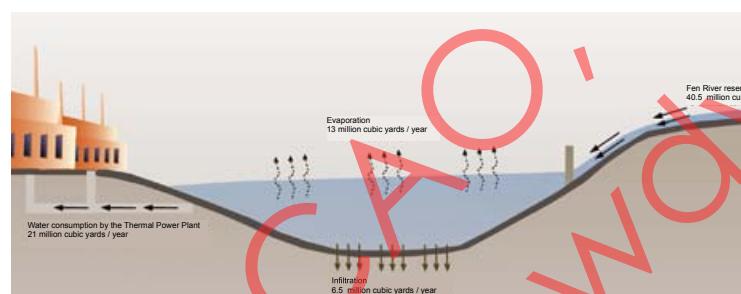
DESIGN AREA: 23.5 acres

PROJECT INTRODUCTION

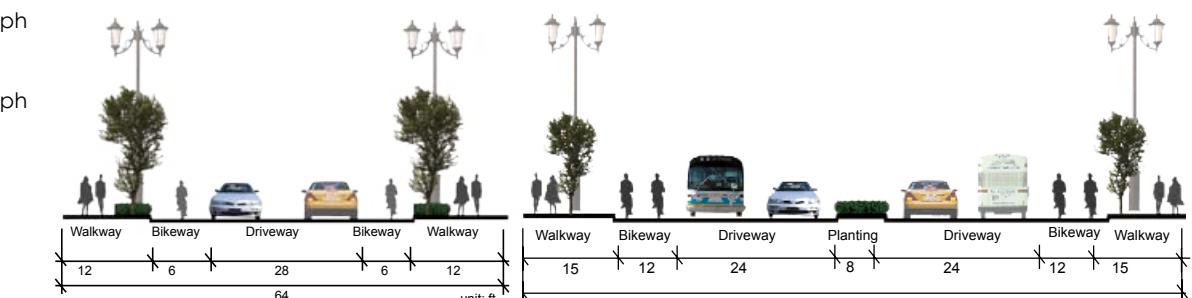
This site is located on the south shore of the Jingyang Lake, Taiyuan, China. In the next 20 years, it will be turned into one of a series of ecological islands with an area of 23.5 acres corresponding to the AECOM plan for the future lake development. The AECOM plan aims to transform the lake area to a new urban mix-used land



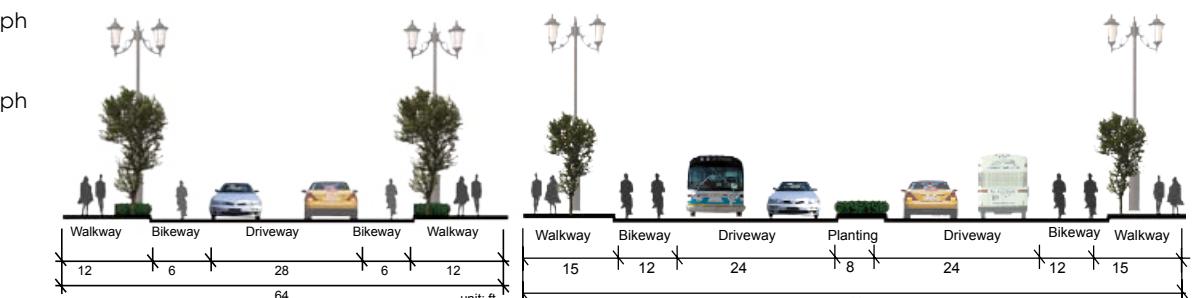
Jing Yang Lake is the largest man-made lake in northern China with an area of 1186 acres and an average depth of 14 ft. There are historical towns and the Jinci Temple to the south, Western mountain tourist district and First thermal power plant to the west, commercial district in the north, and Fen River to the east.



Lakeside road
Proposed speed limit 20 mph

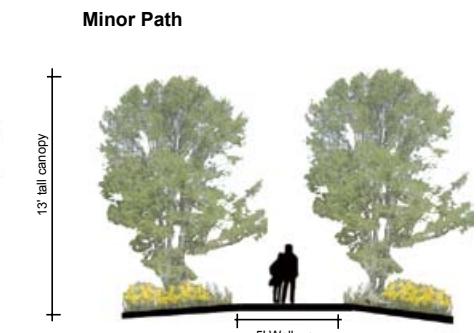
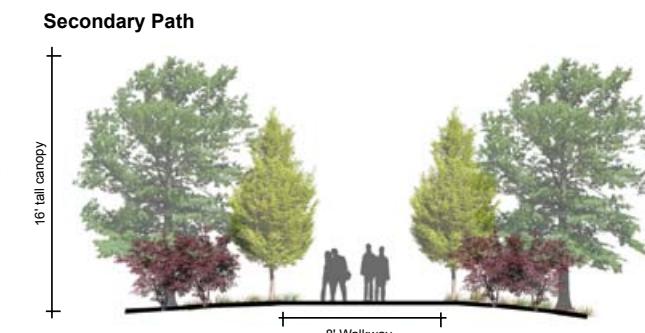
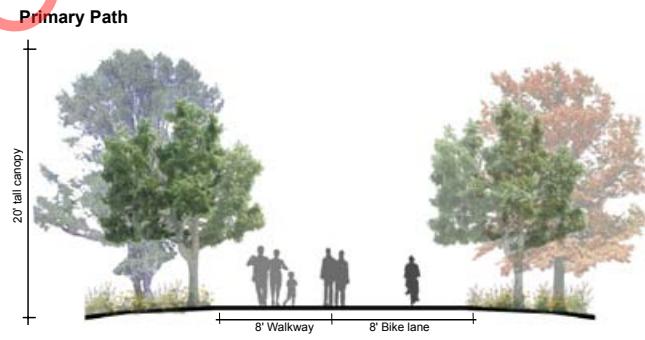
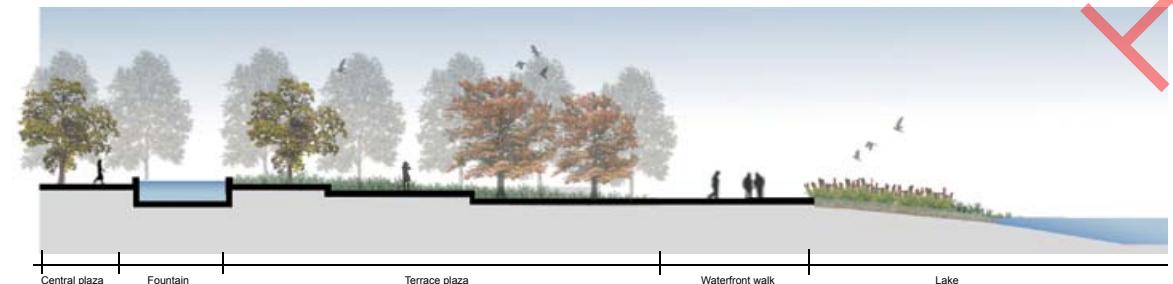
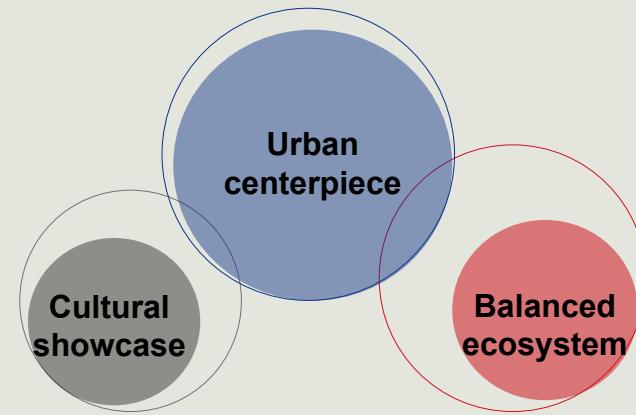


Binghe road
Proposed speed limit: 30mph



GOALS

This project is an urban waterfront planning that creates new open space amenities to a diverse group of users and a visual centerpiece for visitors in Taiyuan City, China. By using the strategies of wetland restoration, ecosystem management and local culture showcase, the park is to restore habitat for wildlife, provide urban recreation and education opportunities to encourage interaction among people, and between people and nature. It captures the culture and future vision of the city and will be turned into an aesthetically, environmentally, culturally, prosperous lakefront park



ENTRY PLAZA

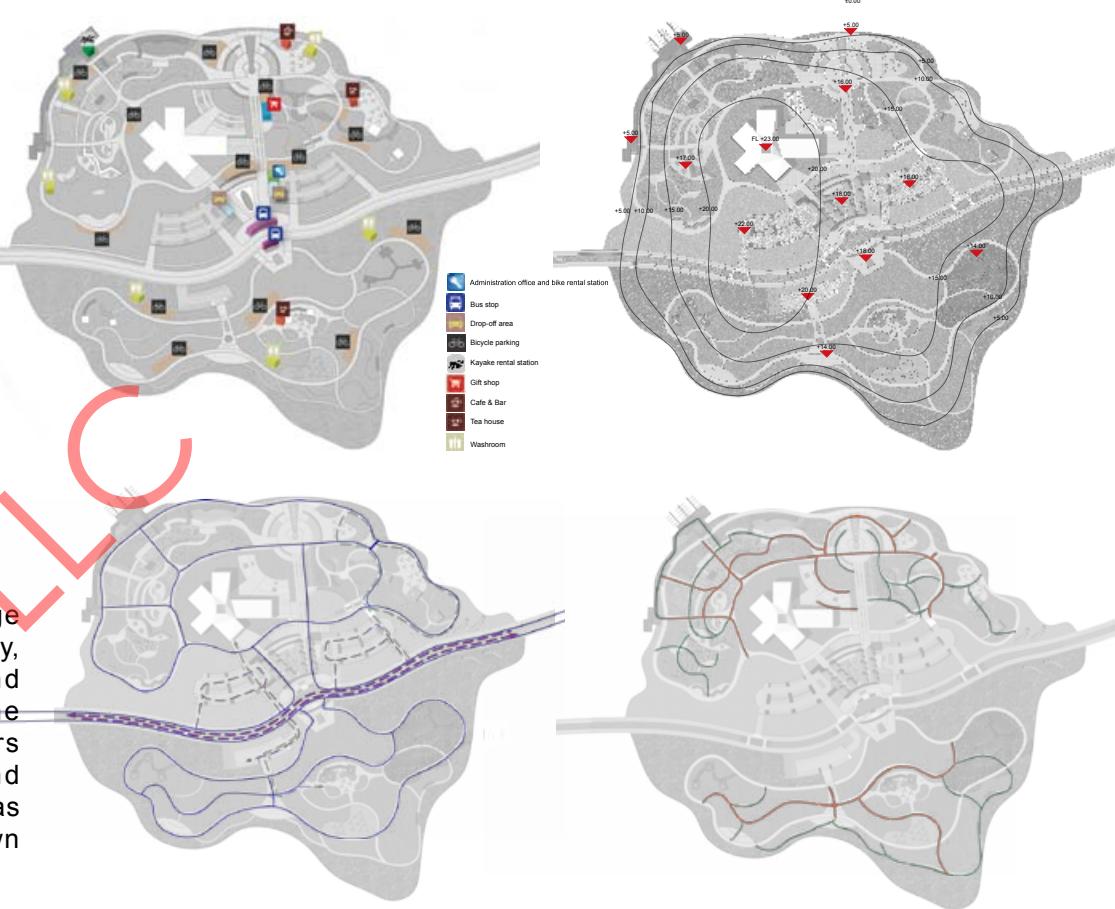
This area provides spaces for people to gather in bus station, and drop-off areas. Besides, it creates distinct landscape to welcome the visitors. The gateway and entry fountain are designed as the landmark of the park.



DESIGN ANALYSIS

Facilities
Elevations
Road network

- Driveway
- Major path (Bike lane)
- Service lane
- Pedestrian way
- Minor path



CENTRAL PLAZA

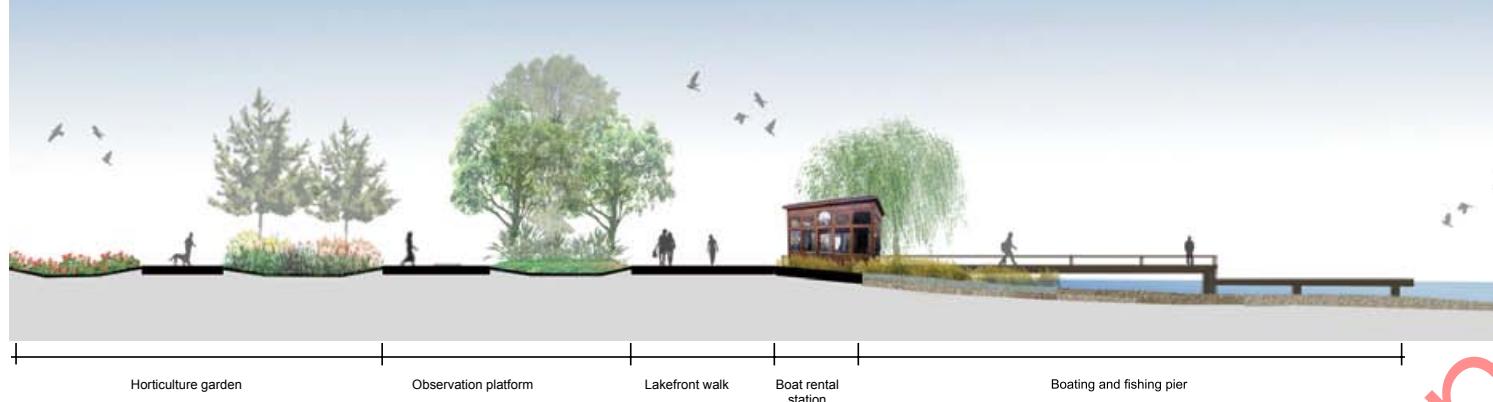
It provides spaces for large group gatherings, photography, cultural performances and commercial services. The central plaza leads visitors to the waterfront area and connects major activity areas like amphitheater, open lawn and outdoor cafe.



HORTICULTURE GARDEN

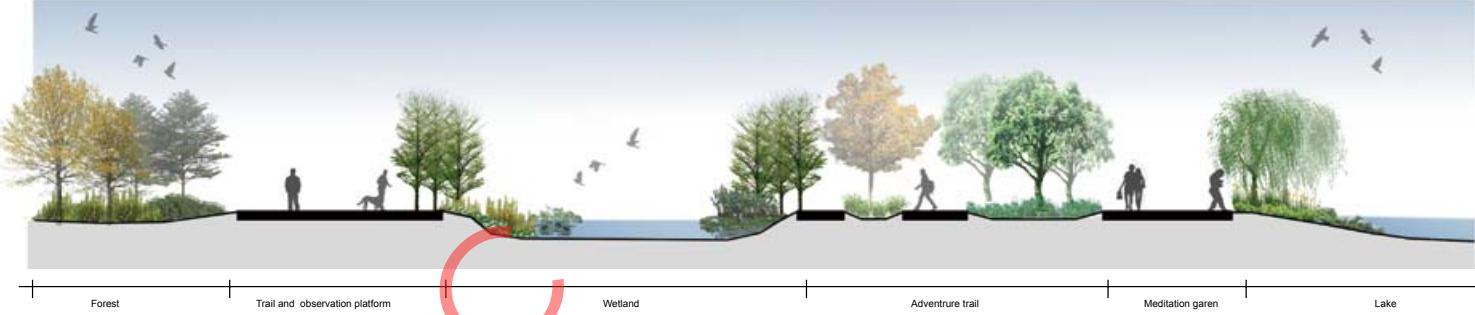
This area encompasses teaching facilities and display garden to showcases numerous planting species with different biological characteristics, It contains a mixture of perennials, trees, and shrubs with a specific focus for creating functional and beautiful landscapes. All plants featured promise to grow to a mature height under 30' tall and have been selected for four seasons enjoyment. It is designed to encourage visitors to explore nature, and hang out with their families in this landscape setting. The garden will provide landscape facilities like wooden deck, pavilions, and fountains to create an attractive and pleasant place.

B-B' Section



WETLAND

C-C' Section



Narrowleaf cattail
Typha angustifolia
5-8 ft tall



Tumbleweed
Salsola collina
1-3.5 ft tall



Common reed
Phragmites
2-15 ft tall



Sweet flag
Acorus calamus Linn
2-2.5 ft tall



Great bulrush
Schoenoplectus tabernaemontani
4-10 ft tall

- Touch: multiple textures
- Watch: colorful flowers, foliage changes
- Taste: fruit

LYNNTECH CAFE

GARDEN DESIGN

PROJECT TYPE: public area design

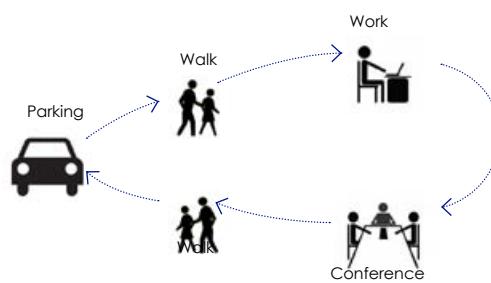
PROJECT LOCATION: Bryan, Texas

MISSON STATEMENT

To design a welcome and comfortable cafe and garden for the employees of Lynntech company and encourage recreation, relaxation and social interaction

DESIGN PRINCIPLES

work routine



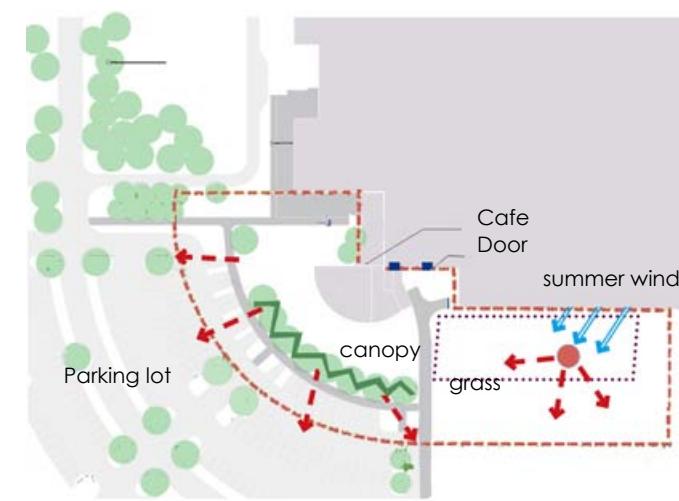
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Green space
Commuting system
Sensitive experience

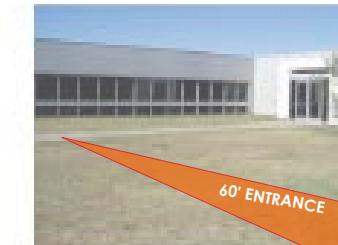
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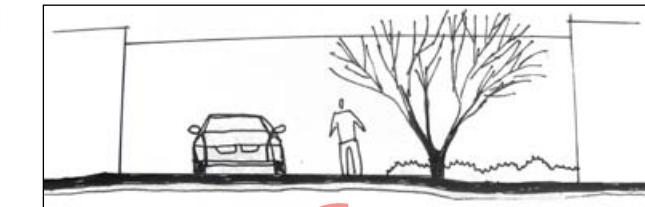
SITE ANALYSIS



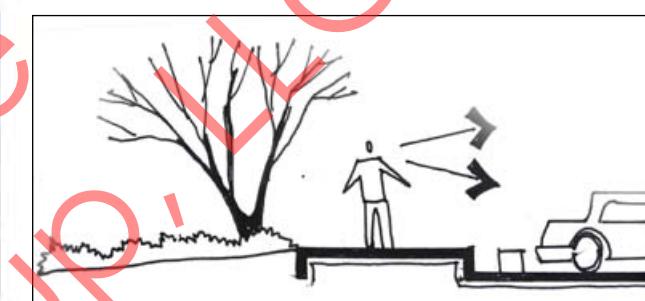
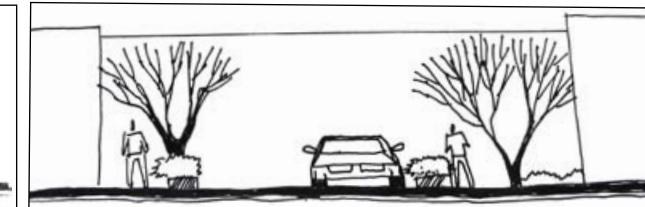
DIMENSION ANALYSIS



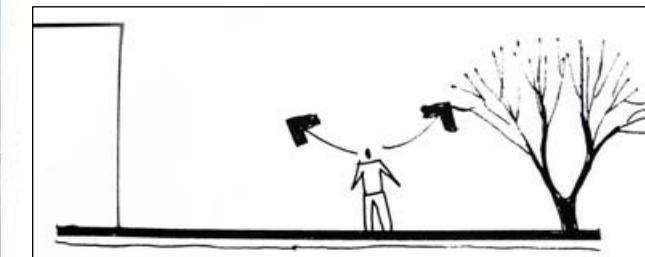
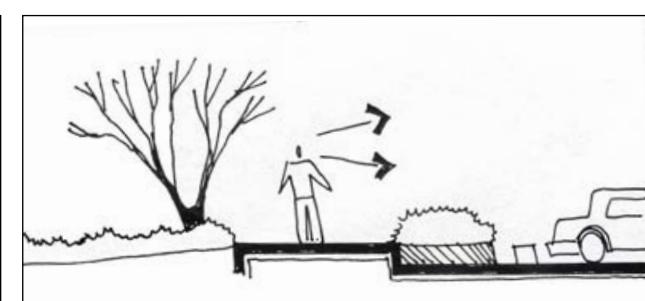
Existing Condition



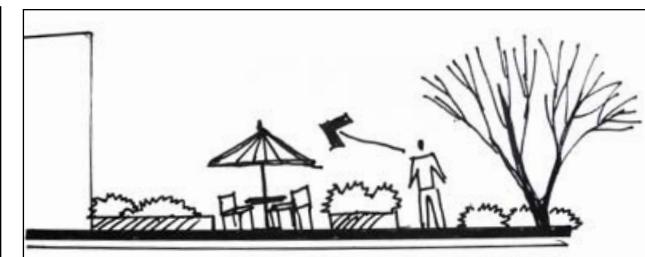
Guarantee the safety: Add buffer between parking lot and walkway



Enhance arrival experience: Create entry landscape, separate walkway and driveway



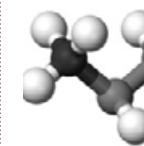
Provide outdoor space: Introduce outdoor cafe and pleasant seating area



CONCEPT DEVELOPMENT

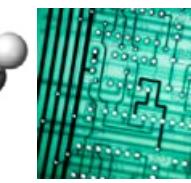
Origin

Life Sciences
Energy & Power
Cyber-physical Systems
Materials Sciences



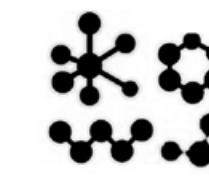
Connection

Primary and secondary Organization



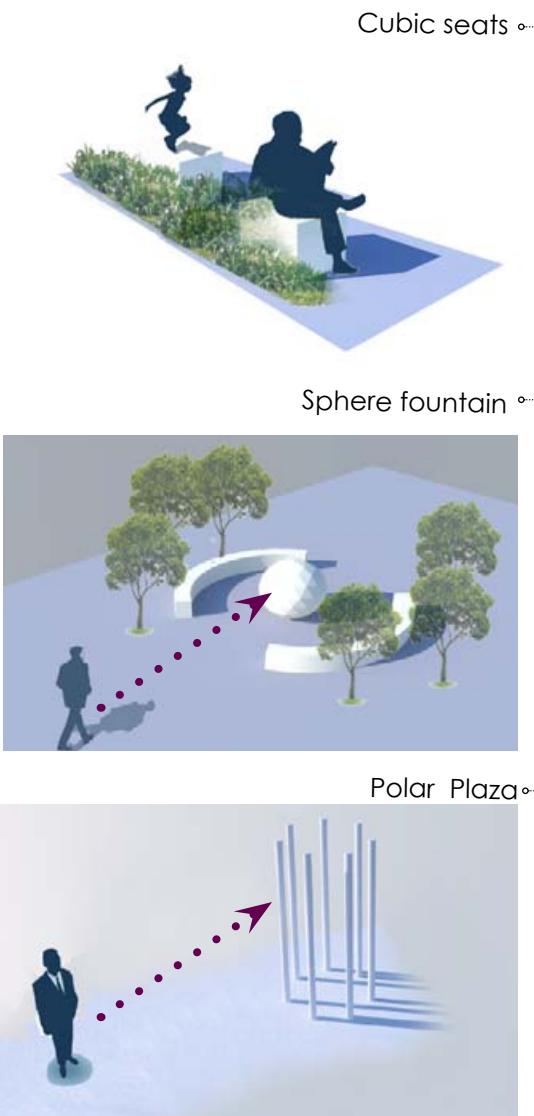
Communication

Sharing information



Design elements

Uses geometric form to identify different spaces

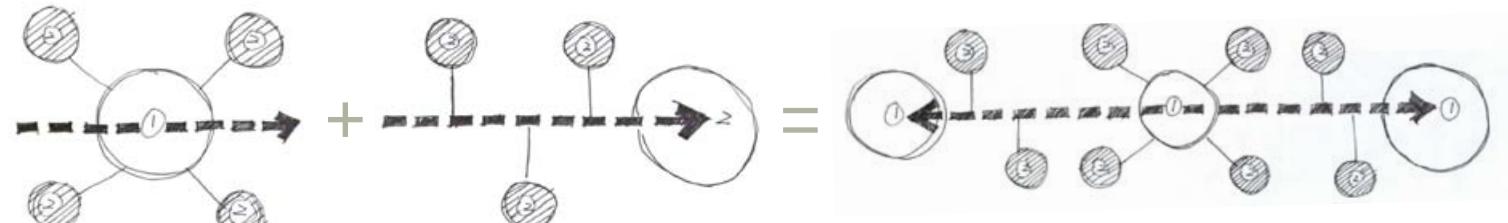


The sphere fountain is a focal point that can be seen from sidewalk, it givea visitor the first impression of the garden and attract them geting into this area. Pillar plaza is the transition between two areas, Groups of pillar are about 8 feet height and easy to be observed, which could guide people into the kitchen garden. These elements are in geometric shape to help identify the space and used in multiple fuctions,

MASTER PLAN

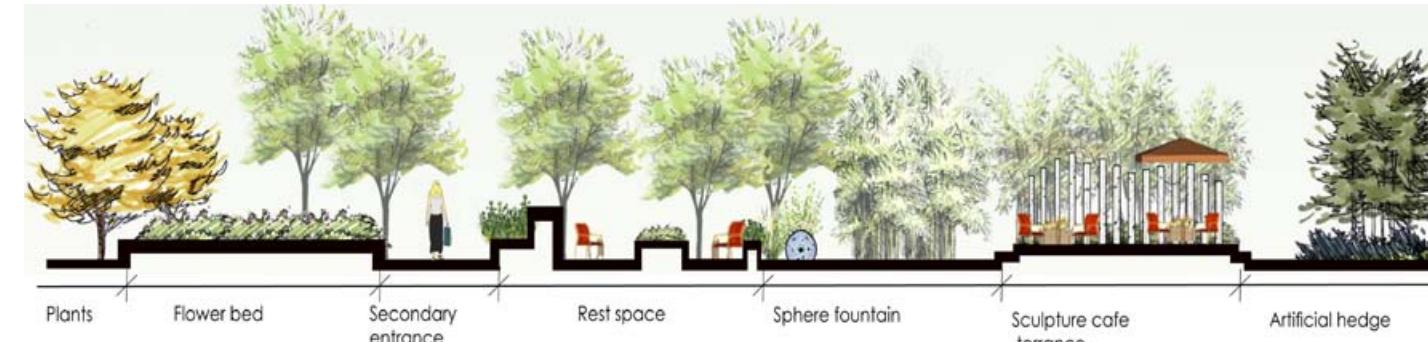


SPACE CONSEQUENCE



View from sidewalk

SECTION



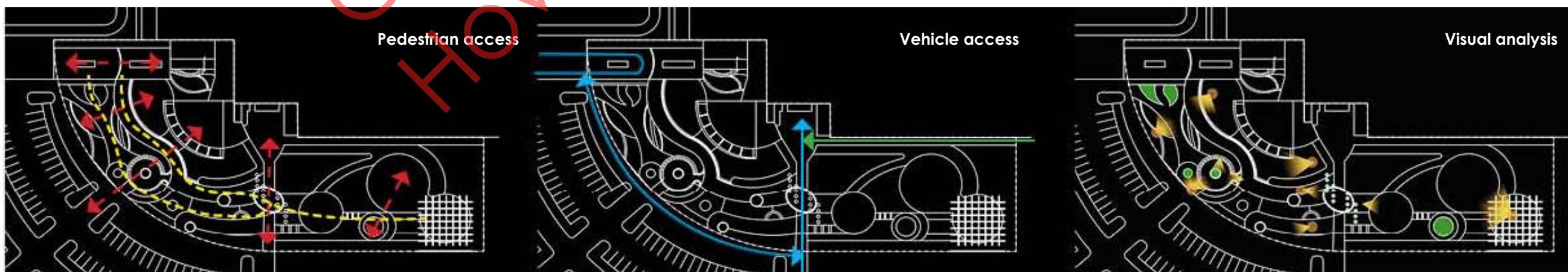
PERSPECTIVES

Providing outdoor cafe and green space between office building and parking lot to improve their working environment and rich their sensitive experience



DESIGN ANALYSIS

- > Major path
- > Minor path
- > Work access
- > Delivery access
- Good viewpoint
- Major feature



CHUNG HUA CULTURAL EDUCATION CENTER

CAMPUS PLANNING

PROJECT LOCATION: Malacca, Malaysia

MISSION STATEMENT:

To create a master plan to showcase the campus for Chung Hua Cultural Education Centre for advanced education in the traditional Chinese culture for teachers from all over the world. To propose an environmental-friendly place that reflects the philosophy of the institution for future masters in learning, meditation, recreation and living a peaceful life.

GOALS & OBJECTIVES

Goal 1: Provide adequate facilities for education living and visiting.

Goal 2: Provide spiritual and space for people to experience, and reflect school's philosophy (human nature harmonious).

Goal 3: Design sustainable green campus.

Goal 4: Create pedestrian-friendly campus having efficient circulation system.

Goal 5: Improve visual to site elements and surroundings.

The project site for the Chung Hua Cultural Education Centre is located in Peninsula Malaysia, in the Melaka province. The school objective is to revive traditional Chinese moral values through teaching and learning. To meet this objective, the education is based on the five moral relationships and respect for all beings.

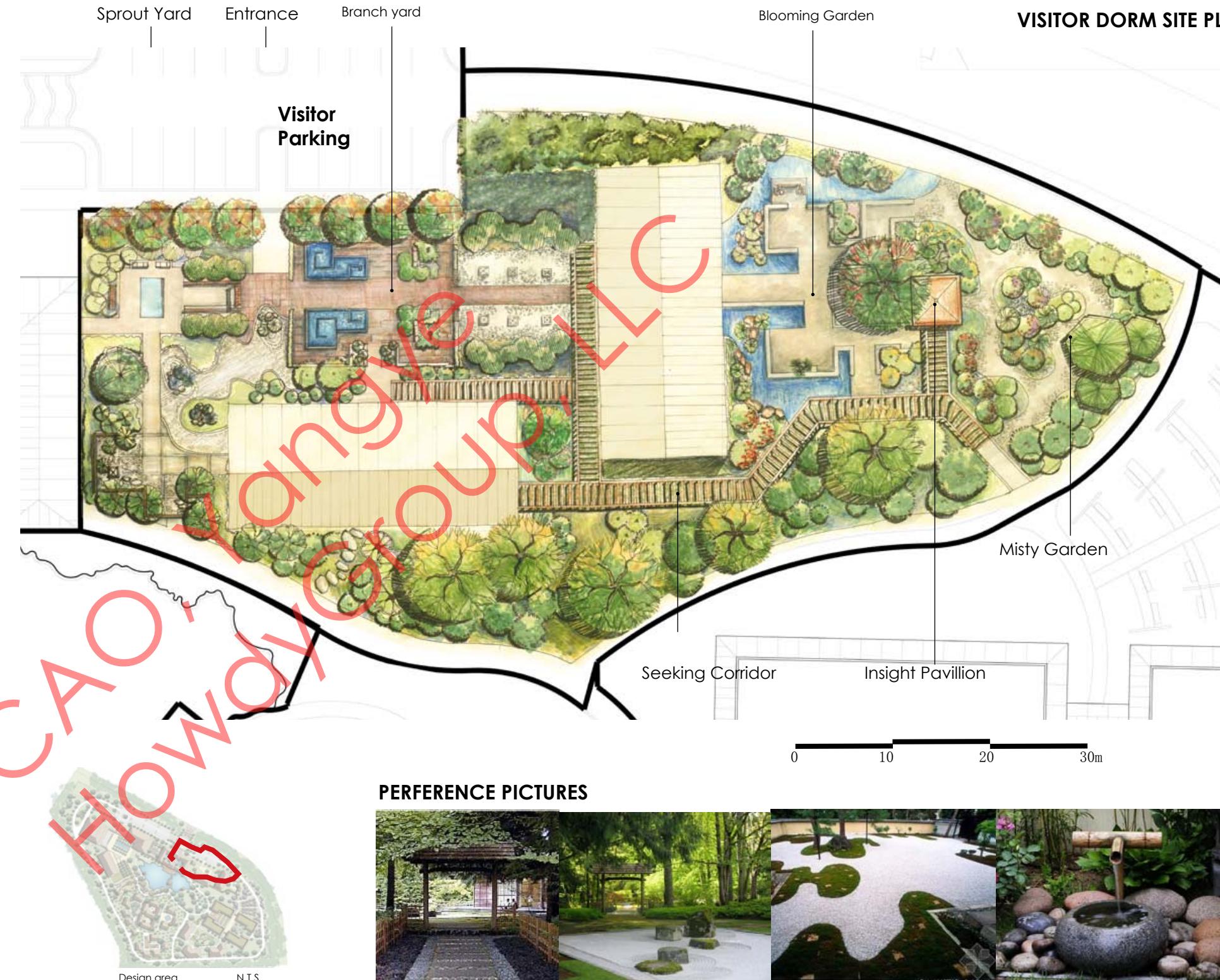


THIS IS A TEAMWORK BY 7 PEOPLE

My responsibility is to research on the local culture and investigate the existing condition, three philosophy, and the design of visitor dorm.

VISITOR DORM SITE PLAN

This accommodation area is connected to visitor's parking lot that provide direct access to the dorm. The spaces follow a certain sequence and identified by different meaningful elements to display the buddhist's thinking process which is pure and respectful. Through creating a neat and spiritual garden, the design philosophy is revealed as reducing conflict and encouraging harmony between human and nature.



PERFERENCE PICTURES



This shows the view from entrance space that faces to visitor dorm. the symmetrical landscape features form a linear space that people can directly goes into the building. Besides that, the road separate it into two sides of seating and resting areas for people to communicate .





ORIGIN YARD

The Origin Yard is located between administration building and visitor dorm. From this view, you can see through the wooden structure and the view of outside lake is borrowed to this place. The wooden structure frame the landscape and create an vivid view cause there will be many people walk through here which keep change all the time, in comparison, the placed stone is stable and steady.



BLOOMING GARDEN

This garden is located behind the building, it combines pond and stone benches which provide seatable spots near the water. Also the sculpture wall display the cut flower and bonsai art. It will remind people that life's beauty can be realized in different way. People will have the chance to walk under the canopy, enjoy tea near water and meditate in the pavilion.



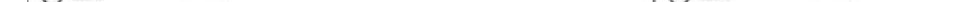
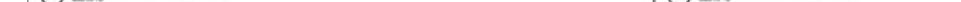
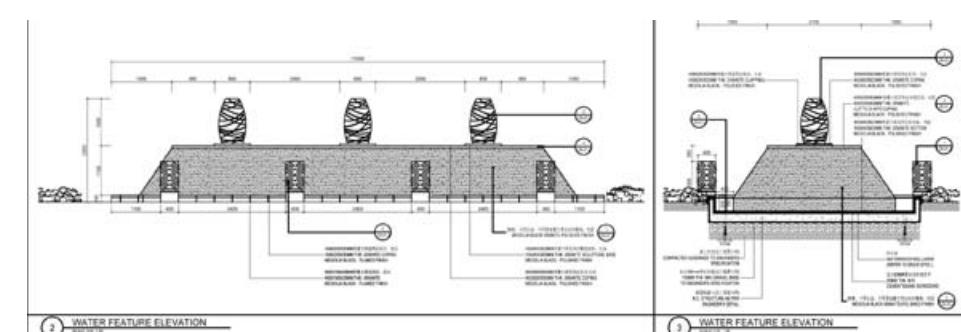
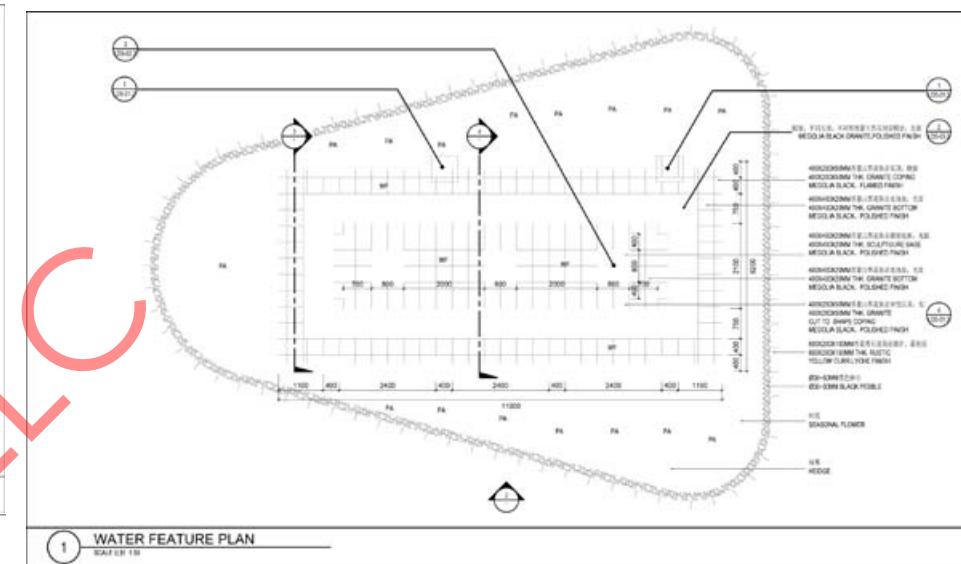
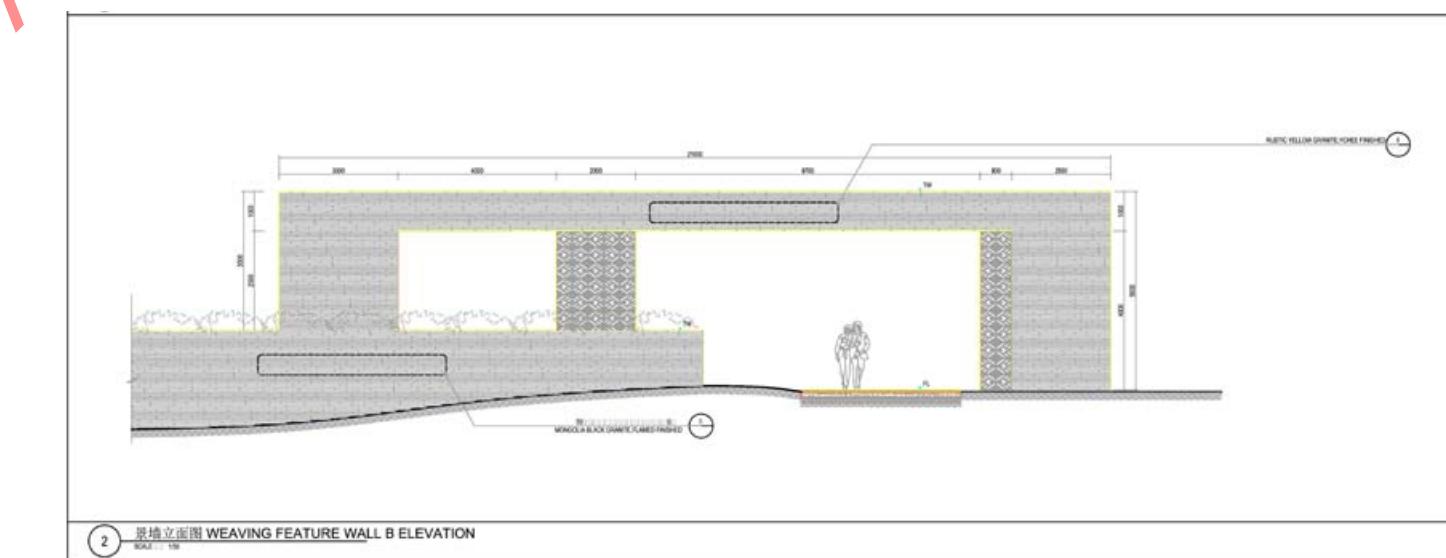
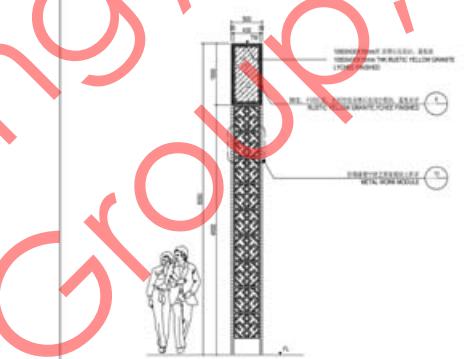
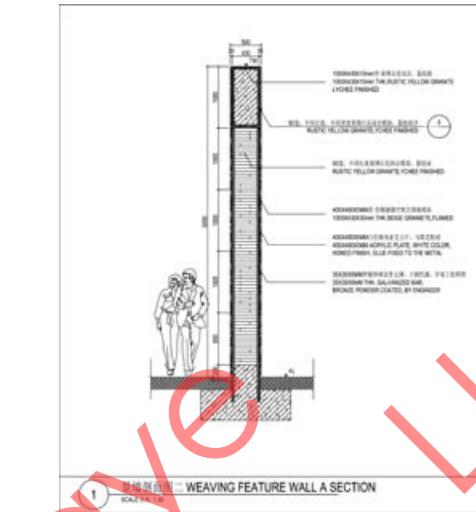
Tasks: Marker rendering
 Photoshop rendering
 Construction drawing revision
 Sketchup modeling

Enhancing and sustaining
 the world's built, natural
 and social environments.

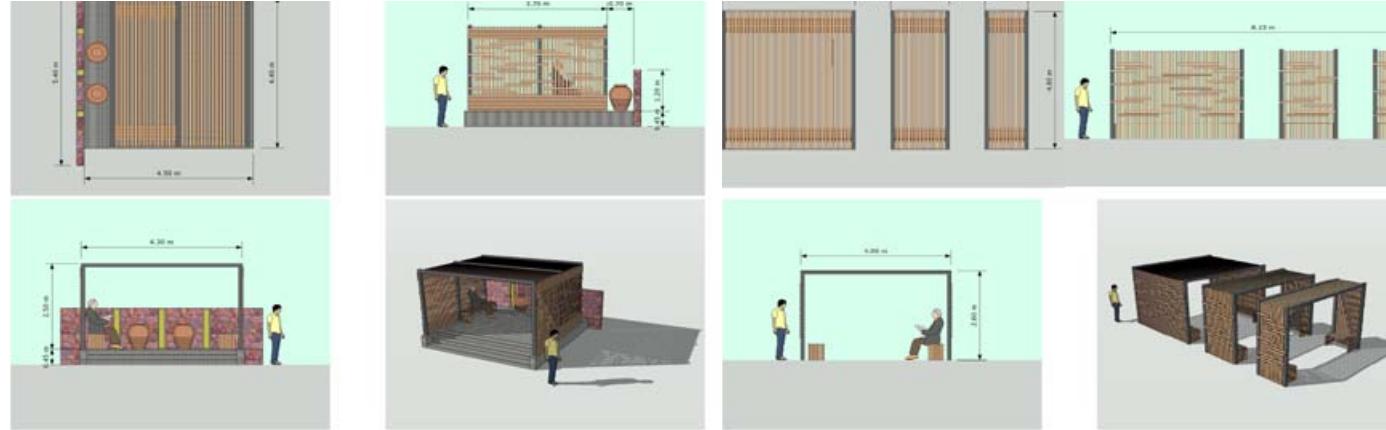
PHOTOSHOP RENDERING



CONSTRUCTION DRAWING REVISION



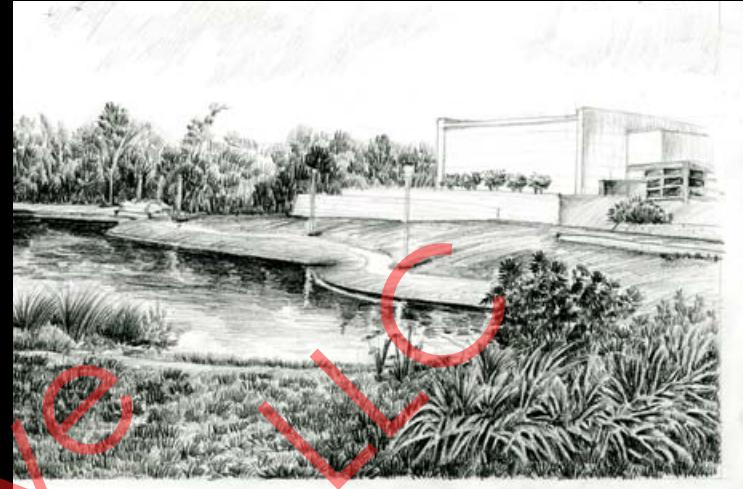
SKETCHUP MODELING



MARKER RENDERING



GRAPHIC WORKS



GEORGE BUSH LIBRARY
Pencil Sketch
Date:06/28/2011



A TRANQUIL OLD STREET



CONFERENCE CENTER
Media: Pen, Markers,Colour pencil
Date: 03/2009

THANKS FOR REVIERING

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COLLEGE OF ARCHITECTURE

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