BEYOND BURIAL

Transforming Death: A New Ritual of Farewell and the Ecological Return of the Body to Nature



Thesis Book Chang Xie Mdes 2023

Beyond Burial Transforming Death: A New Ritual of Farewell and the Ecological Return of the Body to Nature

Chang Xie Spring 2023

Rhode Island School of Design Department of Interior Architecture

Beyond Burial

Transforming Death: A New Ritual of Farewell and the Ecological Return of the Body to Nature

A thesis submitted in partial fulfillment of the requirements for the degree Master of Design in Interior Studies [Exhibitions & Narrative Environments] in the Department of Interior Architecture of the Rhode Island School of Design

By Chang Xie 2023

Ernesto Aparicio Senior Critic, Department of Graphic Design, Consultant: Graphic Design

Thesis Chair

Book

Jeffrey Katz Advisor

Wolfgang Rudorf Department Head, Department of Interior Architecture

Barbara Stehle

Copyright © 2023 by Chang Xie All rights reserved

Approved by Master's Examination Committee:

Eduardo Benamor Duarte

Professor, Department of Interior Architecture, Secondary Thesis Advisor &

Heinrich Hermann

Critic, Department of Interior Architecture, Primary Thesis Advisor

Nick Haus Heywood

Critic, Department of Interior Architecture, Adviser: Writing and Thesis

Senior Critic, Department of Interior Architecture, Secondary Thesis

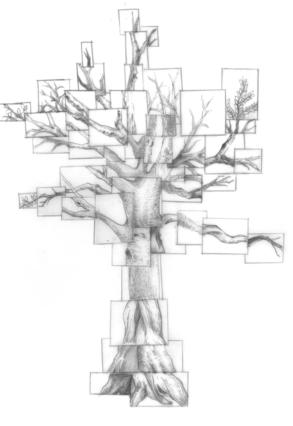
Lecturer, Department of Interior Architecture, Secondary Thesis Advisor

Acknowledgements:

Brett Schneider Associate Professor, Department of Architecture, Rhode Island School of Design Consultant: Structure and Materials

Stephen Turner Critic, Department of Interior Architecture, Consultant: Energy, Systems and Sustainability

Sara Ossana Critic, Department of Furniture, Rhode Island School of Design



"Death is a natural as life."

- Arthur Schopenhauer, German Philosopher

Burial and funeral culture have been shaped by human selfawareness and reflect an anthropocentric worldview. The modern funeral industry's multi-billion-dollar enterprise is based on the principle of protecting, sanitizing, and beautifying the corpse to promote the idea of human exceptionalism. However, this practice overlooks the natural process of decay and the potential beauty in returning the body to the earth, with which the body shares the same chemical basis as the earth itself. Modern science has provided eco-friendly green burial methods, such as soil modification, ice burial, and water burial, making it suitable to contribute to natural ecology using human bodies.

China's explosive population growth resulting from urbanization has caused a shortage of cemeteries, making it challenging to access earthen burials and cremations. To address this issue, this thesis proposes an Ecological Architecture of Death by renovating Hong Kong's iconic Star Ferry Pier into a new cemetery typology that promotes green burial methods and creates an earth-friendly resting place for the deceased and a space for the living to reflect on our entanglement with the natural world.

Abstract

The proposal is divided into four parts: Spiritual Space, Facility, Theatre, and Memorial. Spiritual Space provides a ritual to participate in the farewell process and build a relationship with the deceased. Facility offers functional and technical support for burial, while Theatre dramatizes the moment after the farewell to prolong the process of memorialization and incorporates it into architectural spaces and narratives to facilitate the grieving process. Memorial keeps remembrance alive and welcomes members of the surrounding community. By embedding the cemetery within urban life and improving accessibility, mourning behaviors can become a part of daily life.

Ultimately, this thesis proposes a sustainable approach to death that challenges the conventional funeral industry's anthropocentric practices and promotes ecological harmony between humans and nature. Providing safe and open interactions with death and dead bodies, this architecture can help individuals unburden their grief and find a path towards healing.

CONTENT



Introduction

II Precedents

III Site Analysis

IV esign Proposal P.14 Cultural Context P.20 Knowing Death P.30 Green Burial Practices

> P.42 Spiritual Space P.46 Facility P.50 Theater P.54 Memorial

> P.64 Hong Kong P.72 Star Ferry Pier P.78 User Group

P.86 Context Conclusion P.90 Spatial Arrangements P.102 Narratives P.132 Epilogue

10 Introduction

Cultural Context

Knowing Death

Green Burial Practices

Cultural Context In recent decades, the blistering pace of China's economic development and population growth has transformed death space into sites of acute personal, social, political, and economic contestation.

conduct.

Ancestor Worship

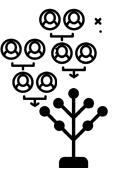
China is a nation without Christian-style monotheism, but our ancestors did not lack belief, and ancestor worship is integral to this belief. It has been described as ' 'the essential religion of China,"' the keystone to the arch of China's society, and "the most deeply rooted of all forms of religion in the very fiber of the Chinese character. "1 However, rather than describe ancestor worship as a religious belief, it's a daily code of

Ancestor worship refers to a habit of Confucianism based on the belief that the souls of dead ancestors still exist, will still affect the present

world, and impact the living conditions of descendants. The purpose of general worship is to believe that the dead ancestors will continue to bless themselves with offspring.

Over thousands of years, whether through regime change, sectarian disputes, or the impact of modern Western thoughts, it has not been possible to destroy this spiritual and cultural fortress rooted at the bottom of Chinese society. For this reason, the new burial practices need to respect this distinctive cultural phenomenon.²

Formation of ancestor worship behavior



"Exalting and worshiping the ancestors of the family, which has the identity of the family and the exclusion of others."



"Believe the gods of their ancestors have extraordinary powers and they will protect and communicate with their descendants."



"Beyond the cognitive limitations of primitive totem worship and reproductive worship, making the subject of worship from originality to humanity."²

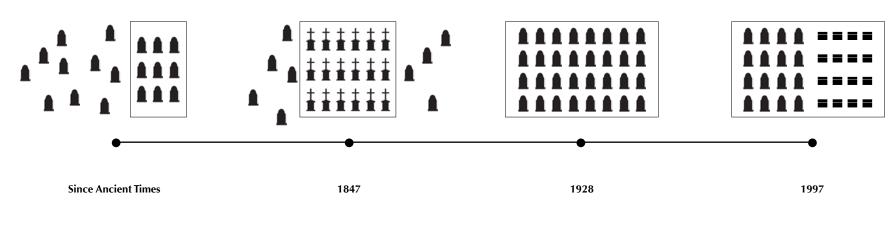
Graves Reform

The Chinese culture has a basis in Feng Shui belief. Feng shui is the practice of spacing physical objects in a particular way to influence the flow of energy or chi. Individuals build graves for their loved ones according to the principles of Feng Shui. It is believed that the grave's location will impact the chi surrounding the deceased person's family. Therefore, the grave distribution in rural areas is basically irregular and random. It means solitary graves can be seen everywhere in the mountains and the rural regions.

With the expansion of urbanization and the lack of management of graves in the last century, the need to manage cemeteries has gradually emerged.

However, the cemetery still does not cover most rural regions in China until now.

These traditional graves have a process and cycle of natural disappearance. The issue is that most of the cemeteries of ordinary people will be forgotten by future generations. Almost no one comes to the cemetery to pay homage after three generations. Therefore, we need to seek a new burial practice to ensure we can find and worship our ancestors.



The grave structure of regular citizens is irregular because the graves are set up based on the principles of Feng Shui. However, the structure of the graves of dignitaries is organized because they can own large spaces of land. The Shanghai Foreigner Cemetery was only built for the foreigners who died in China at that time.

The Republic of China published the first Cemetery Regulations, advocating the selection of suitable places in major cities to establish cemeteries.

The State Council promulgated the "Funeral Management Regulations" to carry out burial reform from earthen burial to cremation.¹

skyrocketed.





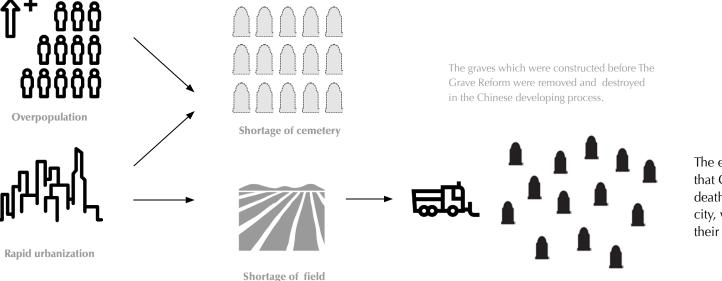
Overpopulation & Urbanization Issues for Death

"The first wave of "baby boomers" entered the golden era of their lives after the founding of the People's Republic of China. The second wave of baby boomers (born in the 1960s and 1970s) have now begun to enter a concentrated retirement period. The third wave of baby boomers born in the 1980s will exceed 35-40 years old in the coming years."

"When the proportion of the elderly population continues to increase, the number of deaths in China will continu e to rise. Since 2006, about 50% of the dead people choose cremation. The demand for cremation mainly comes from urban residents. A highly developed city like Shanghai has already achieved a 100% cremation rate. Only a large number of rural residents are still mainly buried in the ground." 1

The limited land supply and the increasing demand for tombs have exacerbated the rise in tomb prices, which are expected to continue to rise. In highly urbanized areas that are densely populated and economically developed, cemeteries have long been in short supply and unit prices have





The exposure of these issues reveals that China urgently needs a new death space that can coexist with the city, which respects the dead and their relatives

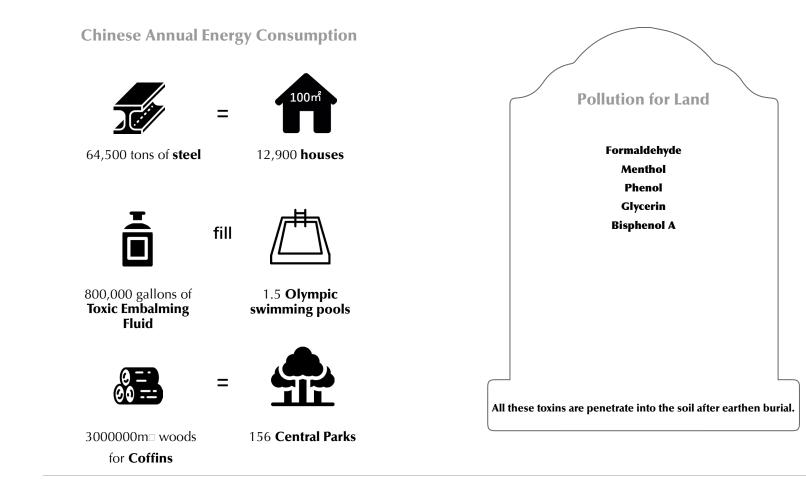
1. Wu. On Funeral Reform.

2. Xue, Tian, Yan, Xiong, Pan, Nie, Wu, et al. "Present and Future Emissions of Haps from Crematories in China," 28-9.

Earthen Burial & Cremation Consumption and Pollution

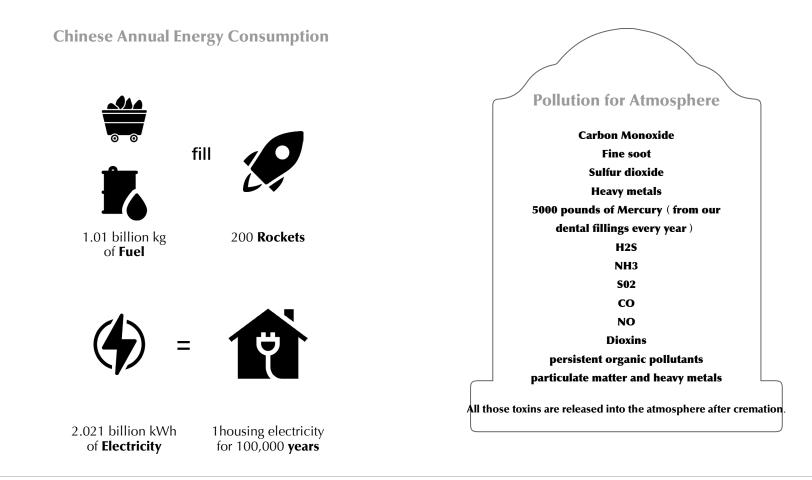
Process of Earthen Burial

- The corpse is disinfected, and its eyes and mouth are set, stitched, or sealed. In addition, 2 to 3 gallons of arterial chemicals are injected, while blood from the corpse is drained into the sewer.
- Remaining bodily gas and fluids are suctioned or desiccated from internal organs, which are then also injected and packed with embalming fluids These include formaldehyde, phenol, and other hazardous or carcinogenic chemicals, to "disinfect" and delay decomposition.
- Dyes restore "natural" coloration and humectants mimic "living" hydration.¹



Process of Cremation

- Removing any radioactive isotopes (used for cancer treatment), prostheses, silicone implants, and medical devices that can explode under extreme heat.
- A single body inside a flammable container is then entered into a pre-cremation chamber. Once the incinerator has reached 1500 degrees Fahrenheit, mechanized doors are opened, allowing the wood or cardboard container to enter the main cremation chamber.
- The body will dry, crack, char and vaporize. The bone becomes calcified and crumbles into the white 3 to 9 pounds of "ash".²



Knowing Death

Death is defined as the act of passing away,

the end of life,

or the permanent destruction of something.

Everyone knows that death is the end of life, and human beings cannot escape the fate of death in the end. However, talking about death is always taboo. Or out of fear and fear of death, perhaps for religious and cultural reasons. Because of the mystery, pain, disillusionment and nothingness of death.



Three Status of Death

First State is when your body function is stopped.

Social

Second State is when your corpse being transported to the grave.

Memory

Third State is, at some point in the future, your name was last mentioned.

PHYSICAL DEATH

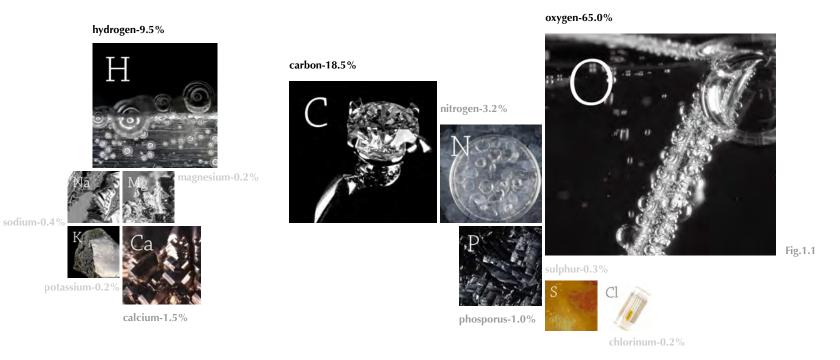




1 H																	2 He
3	4											5	6	7	8	9	10
Li	Be											В	С	Ν	0	F	Ne
Lithium 11	Beryllium											Boron	Carbon 14	Nitrogen	Oxygen	Fluorine 17	Neon 18
Na	Mg											Aluminium	Silicon	Phosphorus	Sulfur	Chlorine	Argon
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
K	Calcium	Scandium	Titanium	Vanadium	Chromium		Fe	Co	Nickel		Zn	Gallium	Germanium	As	Selenium	Bromine	Krypton
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Rubidium	Sr	Yttrium	Zr	Niobium	Molybdenum	Tc	Ru	Rh	Palladium	Ag	Cd	Indium	Sn	Sb	Tellurium	lodine	Хе
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Cs Caesium	Barium	Lanthanum	Hif	Tantalum	W Tungsten	Re	Osmium	Iridium	Platinum	Au	Hg	TI	Pb	Bismuth	Polonium	At	Radon
87	88	89	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118
Francium	Radium	Actinium	Rutherfordium	Db	Sg	Bh	Hassium	Meitnerium	Darmstadtium	Rg	Cn	Nihonium	Flerovium	Moscovium	LV	Ts	Oganesso
	manum	nonnum	in an		ocus si gium	Southan	Huddium		a de mate de traine	genum		linomum	110.091411	mooovium	anoninorium	remiesanie	0 801163301
	*	58	59	60	61	62	63	64	65	66	67	68	69	70	71	1	
		Cerium	Pr	Nd	Pm	Sm	Europium	Gd	Tb	Dysprosium	Но	Er	Tm	Yb	Lu		
	**	90	91	92	93	94	95	96	97	98	99	100	101	102	103		
		Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr		

The human body has essentially the same chemical basis as the earth itself, making it suitable to contribute to a natural ecology.

11 Major Constituent Elements of the Human Body



99% of human body mass is made up of only six elements: oxygen, carbon, hydrogen, nitrogen, calcium, and phosphorous.¹

Earth and Its Dead



219 Toxic Pollutants

"The earth has reabsorbed the dead into its elements for so many millions upon millions of years. Through the action of fire, the corpse gives itself up to air; through inhumation or simple putrefaction it returns its composite substance to the earth; through the force of gravity, it sinks into the sea's underworlds. Whatever biomass it receives after the extinction of life becomes part of the planet's receiving matter-matter from which life, its imponderable origins, in turn, emerges."

"Human bodies, when they perish, share in this organic afterlife of the dead. They are "rolled round in earth's diurnal course, / with rocks, and stones, and trees," to speak with Wordsworth." 1

The funeral industry is multi-billion-dollar, and its economic model is based on the principle of protection, sanitation, and beautification of the corpse. It ignores the fact that death can be an emotionally messy and complex affair and that there is beauty in decay -- beauty in the natural return to the earth from whence we came.

Toxic Body Pollutants

"Polluted waters. Solvents in gasoline. Pesticides sprayed on fruits and vegetables. We are subject to more toxins than ever before. Everyone has heard of environmental toxins, but we don't even have to leave our homes to be exposed to toxins. Getting up in the morning, taking a shower, applying cosmetics, and eating breakfast expose us to over 100 different chemical compounds."

"There is chlorine in our shower water, fluoride in our toothpaste, parabens in our skin care products, and even pesticides in our breakfast. The 2009 Fourth National Report on Human Exposure to Chemicals by the Centers for Disease Control revealed that Americans of all ages carry over 219 toxic chemicals in their body at any time."²



2. Crinnion, Walter. "The Cdc Fourth National Report on Human Exposure to Environmental Chemicals: What It Tells Us About Our Toxic Burden and How It Assists Environmental Medicine Physicians."

DEATH IN SOCIAL STATUS

Chinese Funeral Tradition Ritual

Fig.1.3



- Preparation of the Body
- Preparation of the Home
- Proper Funeral Etiquette
- The Wake
- A Monk's Vigil
- The Funeral Procession
- The Burial

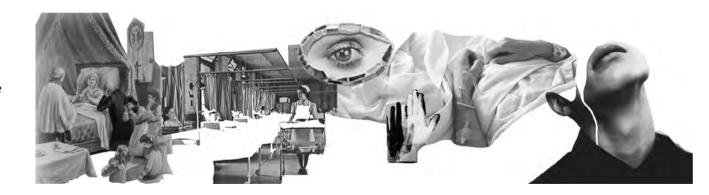
Traditionally, Chinese families are known to host lavish funeral ceremonies with complex processes for their loved ones. Elaborate funerals help determine status in society. The family plays a key role in organizing the funeral.

In traditional Chinese society, solemn funerals are an important part of expressing grief and seeking psychological support. The death of a loved one is the highest degree of psychological trauma. Though grief needs to be addressed, we also need to look at the practicality of burial rituals.

The most important thing of the ceremony is serving the dead as if they were living and they were still with us. Even through mourning, we should be aware of sustainable practices to bury our dead. Through mourning, living members process grief and are able to carry on living while accepting loss of loved ones.1

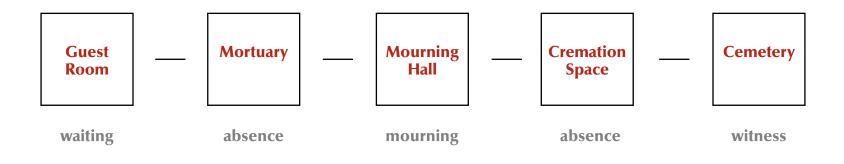
Contemporary Ritual Issue

"Funerals once took place in the family home, facilitated by the surrounding community. The early 20th century saw the rise of the burial industry. Family funerals were replaced with companies and professional technicians. Turning death into a financial transaction leads to 'care' that is profit-centered rather than human-centered, with the corpse itself becoming a commodity."2



Contemporary Program

The funeral industrial complex leaves little room for direct meaningful involvement and has robbed the family of valuable hands-on engagement and ritual.³ In an attempt to shield the grieving from the realities of death, these methods of procedure have become inhumane, lack ritual and ceremony, and are insensitive to those left behind.⁴



Family's Behavior



Positive (Participation)

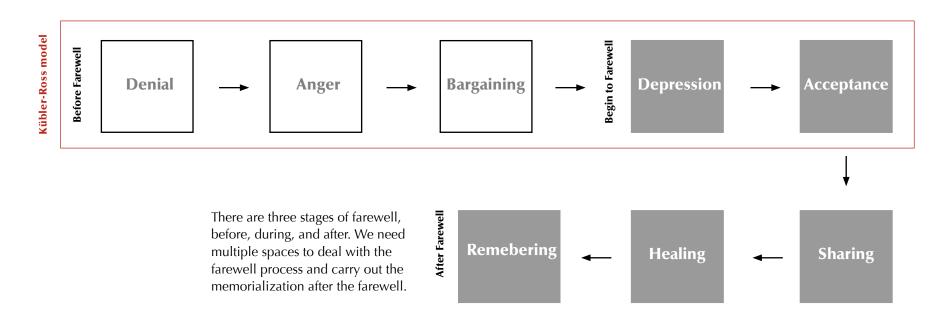


Negative (Absence)

DEATH OF MEMORY

Stages of The Farewell

Elisabeth Kübler-Ross, a Swiss American psychiatrist, examined the five most common emotional reactions to loss in her 1969 book, "On Death and Dying."



Depression

Three types of grief ritual interventions were categorized: ¹

let go of the

traumatic experience



honor the deceased loved one and to keep a symbolic bond

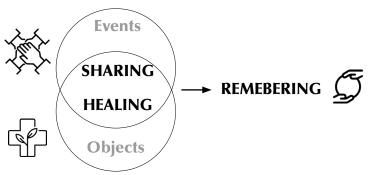


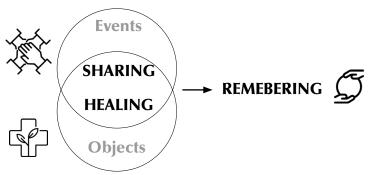
self-transform

Acceptance

People acknowledge the reality of the loss, which can be enhanced by participating in the farewell process and attending memorial services and funerals. Psychological studies concluded again and again that the more involved the next of kin are in end-of-life rituals, the better they cope with grief.² This is in strong contrast to the death industry, which is becoming increasingly more privatized.

1. Wojtkowiak, Lind, Smid, "Ritual in Therapy for Prolonged Grief: A Scoping Review of Ritual Elements in Evidence-Informed Grief Interventions."

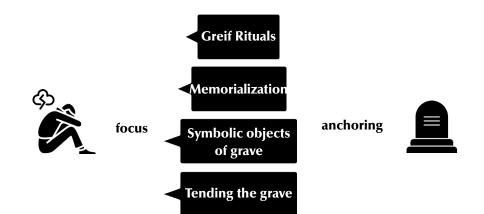




Dialogue and Relationship

After Farewell

People need to find a way to develop an enduring connection with the deceased even as they embark on a new life.³ The continuing link between the living and the deceased is often manifested and sustained through material objects. These objects provide multi-faceted benefits; they fulfill the need for a "focus," enable the "anchoring" of the deceased and provide a tangible object which the bereaved can visit and interact with. There is a complex dialogue between bereaved people and the deceased that included tending the grave, headstone, and adjacent grounds, and participation in personal rituals that included saying prayers, placing flowers, and depositing grave goods. Tending the grave "appears to serve as a proxy act of physical contact with the deceased" and the choice of the headstone is a fundamental intervention by the living to reconstruct the identity of the deceased.⁴



By using **symbolic objects** and **acts**, people are able to enact their feelings into ritual action. Although the loss cannot be changed, rituals create an opportunity to express and enact painful emotions.⁵

It's time to relink the relationship between the dead and the living. The safe, open interaction with death and dead bodies would provide a sense of purpose for family and friends and would create a space for us to unburden our grief to discover a path toward healing.

Green Burial Practices

You become a memory through a tree.

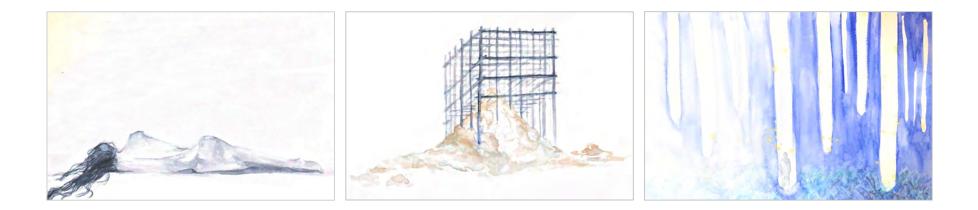
The whole forest could be the **collective memory** of loved ones.

Immortality

Do not stand By my grave, and weep. I am not there, I do not sleep— I am the thousand winds that blow I am the diamond glints in snow I am the sunlight on ripened grain, I am the gentle, autumn rain. As you awake with morning's hush, I am the swift, up-flinging rush Of quiet birds in circling flight, I am the day transcending night. Do not stand By my grave, and cry— I am not there, I did not die.

– Clare Harner, 1934

Earthen Burial - Cremation- Green AfterLife



I will not be trapped in a coffin or an urn;

I will be grass, I will be trees, I will be wind, I will be rain, I will be part of any living thing and everything you can perceive.

You Will Be The Part of Nature

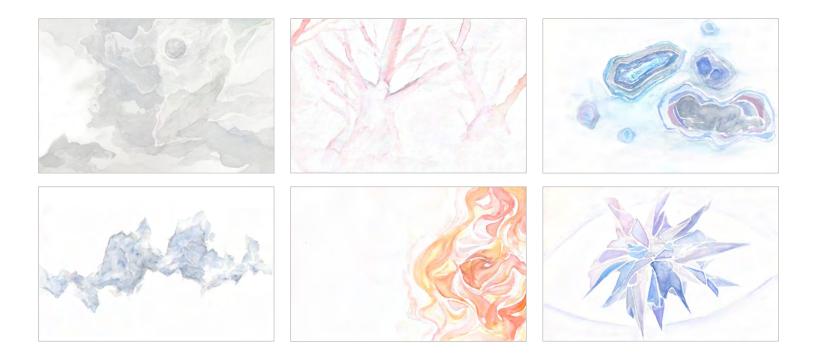




Fig.1.4



lay the body Biodegradable vessels

decompose into the earh

Biodegradable Vessels

A biodegradable burial container, simply put, is a container you place the body into for burial that will decompose naturally and become part of the earth. In order to qualify as "green" the burial container needs to be made from natural materials, free from toxic chemicals, and capable of being broken down by bacteria and other living organisms.

"The burial places can gain more nutrients, so the government can find more open space and reserve natural habitats. It can also increase the biotic diversity to let animals and plants have better concentration, which can provide wildlife corridors and protect the ecosystems. This is a winwin-win situation for both human, animals and the environment. "1

- Banana Leaf
- Willow
- Wool
- Seagrass
- Bamboo
- Woven Fiber Casket
- Biodegradable Cardboard
- Biodegradable Pod
- Biodegradable Shroud
- Water-soluble Vessels

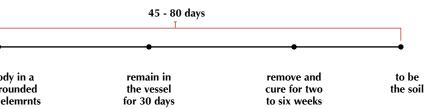
Remains

- Protein
- Carbon
- Hydrogen
- Oxygen
- Nitrogen

lay the body in a vessel surrounded by natrual elemrnts

Remains

Soil transformation creates a vessel system. The mixture of wood chips, alfalfa, and straw, is a really great mixture that contains a lot of carbon and nitrogen, ready to break down inside the container. "Then lay the body on top of those materials. Add more of the materials on top of the body. Over a 30-day span, provide oxygen, some moisture and a little sprinkle of water here and there. The microbes and bacteria that are around us all the time, that are on those wood chips and that are in the air, break down the body. The process is more colloquially, human composting. The soil will nurture growth on the same forest floor that inspired its creation, allowing us to give back to the earth that nourishes us all our lives." ²





Soil transformation & Human composting





Mushroom Suit

The suit which comes in black or natural has removable hand and head coverings and is made from natural biodegradable material.

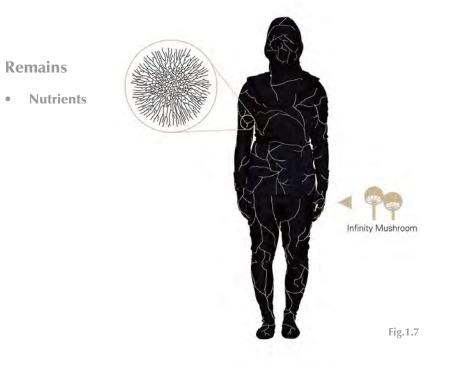
"The primary fungus used in this suit is Mycelium. The mushrooms and other microorganisms within the suit germinate and begin to grow, which delivers nutrients from the body to surrounding plant roots efficiently. As they grow they gradually decompose the body around them. The process neutralizes many of the body's toxins like lead, mercury, pesticides, and BPA. This process creates a nutrient-rich carcass that feeds the earth."1



lay the body with Mushroom Suit

decompose into the earh

Remains



Remains

Water Cremation

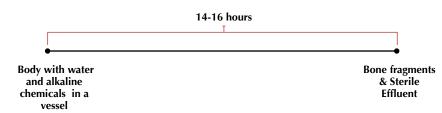


Remains

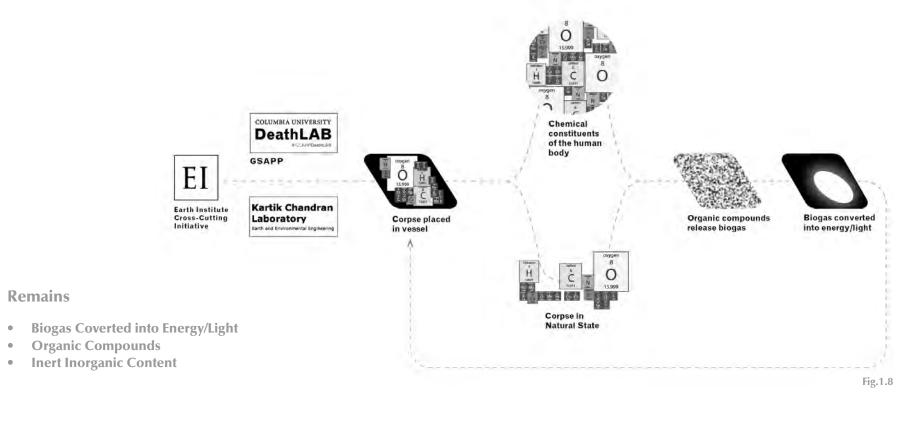
- Bone fragments (calcium)
- Sterile Effluent (water, salt, sugars, amino acids, peptides)

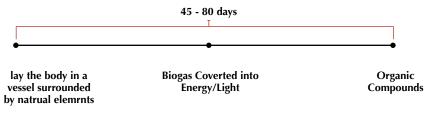
Water cremation is the process of alkaline hydrolysis harnessed to break a body down into its chemical components using water, lye, pressure and heat. The body is effectively broken down into its chemical components, which takes approximately four to six hours.

"Many have uncomfortably analogized this process to 'pouring bodies down the drain,' a characterization that often overlooks the fact that body fluids and blood are routinely poured down the drain during traditional embalming practices."²



Anaerobic Bio-Conversion





"Disposition occurs within discrete Anaerobic Bioconversion Vessels utilizing microbial methanogenesis to break down organic matter distilling the corpse to its basic chemical and biological components. Energy, in the form of light, will be produced through the generation of methane via anaerobic carbon cycling. Small amounts of remaining organic compounds provide nutrients for plant growth, while inert inorganic content will be suitable as a memento, equivalent to memorial remains."³

36 **Precedents** Ι

Facility

Sacred Space

Theater

Memorial

Farewell Architecture

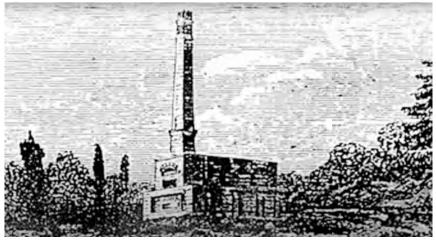


Fig.2.1

The first crematorium in the UK named Woking Crematorium was built in the 1870s. When this was first built, there were protests in the local village. Cremation wasn't socially acceptable, and 99.8 percent of people got buried. 1 However, only a hundred years later, three quarters of citizens get cremated.

The **CHARACTER** of the Farewell Architecture fluctuates between that of a factory, that of a sacred space, that of a theatre and that of a memorial.

Sacred space

Facility

Sacred space

Facility

Crematorium Baumschulenweg, Shultes Frank Architeckten, 1998 Fig.2.2

Woodland Cemetery, Johan Celsing, 2013 Fig.2.3

Communal Crematorium, Henning Larsen, 2013 Fig.2.4

Tower of Silence, 5th century BCE Fig.2.5

Crematoria features all kinds of expressions of the metaphysical. Some are actually ecclesiastical in character, for example by including some sacred space. expressing grandeur as that which is larger than (human) life, often charged with symbolism.²

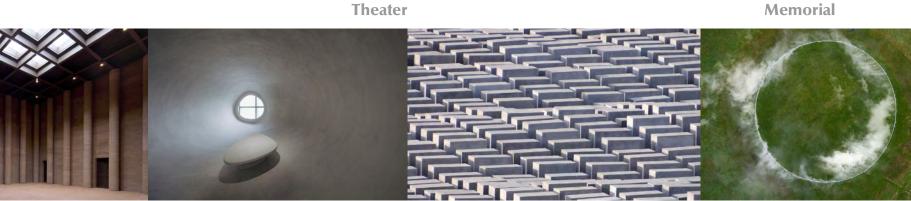
This element is part of burial space by definition. It provides the functionality for the burial.

Theater

The farewell spaces also are the theatres of the final farewell, especially when ceremonies are held in them. The building can dramatize this moment, as described earlier but, contrastingly, it can also be a space for a 'performance'.3

Memorial

Memorial is something that keeps remembrance alive. After the whole farewell process, people needs a spaces with symbolic meaning to mourn and capture special memories of your loved one.



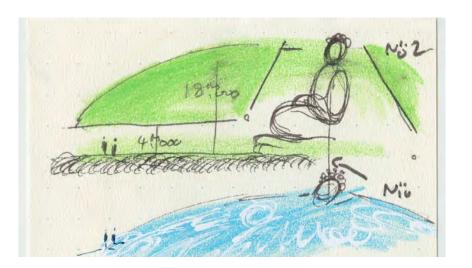
Crematory In Parma, Studio Zermani e Associati. 2009 Fig.2.6

Satori Harbor, Wutopia Lab, 2016 Fig.2.7

The Memorial to the Murdered Jews of Europe, Peter Eisenman, 2005 Fig.2.8

Fog Assembly, Olafur Eliasson, 2016 Fig.2.9

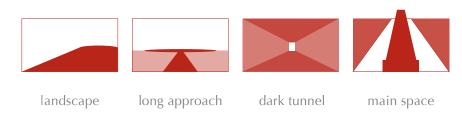
1 R



NARRATIVE

The design intention was to create a vivid spatial sequence. Beginning with the long approach through the tunnel in order to heighten anticipation of the statue, which is invisible from the outside. When the hall is reached, visitors look up at the Buddha, whose head is encircled by a halo of sky at the end of the tunnel.

Spatial sequence



Sketch, Tadao Ando Fig.2.10

Makomanai Takino Cemetery - The Hill of the Buddha Tadao Ando, Japan, 2015



The site is a gently sloping hill on 180 hectares of lush land belonging to a cemetery. The vegetation provides a seasonally appropriate backdrop for the statue to turn fresh green in spring, pale purple in summer and silky white with snow in winter. Creating a more harmonious inclusion within its natural surroundings of a monumental Buddha statue.

Embedded under the hill are a 40-meter approach tunnel and a rotunda embracing the statue. Merging construction and landscape to create a spiritual experience through the tools of space and atmosphere.¹



Fig.2.11



REAL ARCHITECTURE

Brother Klaus Field Chapel Peter Zumthor, Wachendorf, Germany, 2007



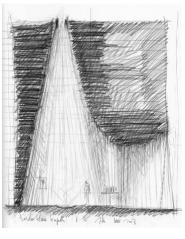
"The chapel is made of 112 tree trunks. After the frame was completed, layers of concrete were poured and rammed over the existing surface, each around 50cm thick. When the 24 layers of concrete had set, the wooden frame was set on fire, leaving behind a hollowed blackened cavity and charred walls. The chapel evokes a somber and reflective character. "

Additionally, from the outside, there are 350 small holes on the walls, which are covered with glass - unglazed tear-drop oculus- spheres on the inside. These elements add a special touch to the atmosphere of the place.¹

Fig.2.12-13



Fig.2.14



Lighting

The central hollow is completely opened to the sky and lets light and rain come into the chapel's dark center. 350 tear-drop oculus embedded in wood frames reflects the light making the space warm during the silence.

ATMOSPHERE

Spatial perception is a complex whole of conscious and unconscious interpretations of the things people **think**, **see**, **hear**, **smell**. According to architect Peter Zumthor, the atmosphere is the residue that sticks to people's memories and senses when they perceive a building that affects them.

By combining light and material, form and memory he creates an interior space with a mysterious and intimate atmosphere that invites reflection.

Sketch of Plan, Peter Zumthor Fig.2.16

Detail Photography, Hélène Binet Fig.2.17



Form & Memory



The womb-shaped space has 350 tear-drop oculi embedded in wood frames presenting warmth and sensuality, which is said to reference a vision Brother Klaus - the client for this project- experienced, of floating in his mother's womb and seeing an enormous starburst.²

Sketch, Peter Zumthor

SEE 🔇

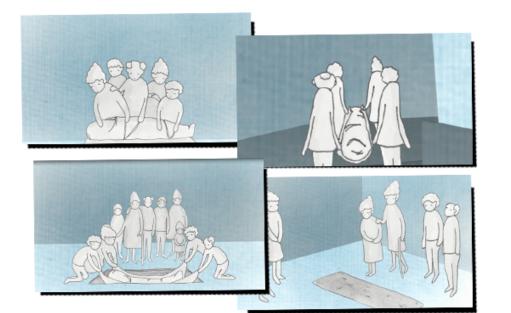


Interior Photography, Hélène Binet

Fig.2.15

The pine formwork was burned out, leaving a characteristic vertical texture and pine smell on the concrete walls inside the building.

1. Sveiven, "Bruder Klaus Field Chapel / Peter Zumthor." 2. Phaidon, "Sacred Stories- Bruder Klaus Field Chapel."



Sketch, Katrina Spade Fig.2.18

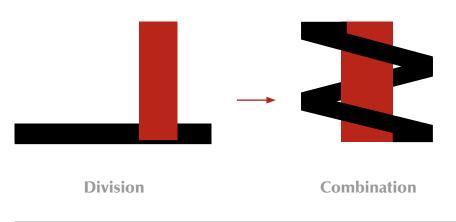
FAMILY PARTICIPATION

The design makes the family intervene in the process of burial to create an intimate ceremony, which decreases the fear of death and the cruelty of factory characteristics.

Bodies are placed into the building core during the laying in ceremony. Friends and family begin their loved one's transformation from human to soil by covering the body with woodchips at the top of the core.



Public Circulation



1. Spade, "Of Dirt and Decomposition: Proposing a Place for the Urban Dead."

CONCEPTUAL ARCHITECTURE

Urban Death Project Katrina Spade, Seattle, US, 2016

At the heart of each Urban Death Project facility is a three-story core containing our unique compost-based renewal system. Although this core is being engineered to be replicated entirely, each building that houses a core can and should be unique, designed specifically for the neighborhood in which it resides.

"Bodies of the deceased are placed inside this core by their friends and families during a ceremony. Over the span of a few months, with the help of aerobic decomposition and microbial activity, bodies decompose fully, creating rich soil that can be used to grow new life."1





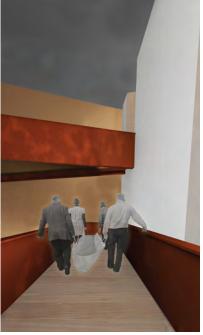


Fig.2.19-21

Moksha Tower Yalin Fu, Ihsuan Lin, Mumbai, India



"Moksha Tower provides burial space for four major religions in Mumbai, which are Hindus, Muslims, Christians and Parsis. As these religions practice different funerals and methods of disposal for dead, the tower is designed to meet the needs of all these religions. For Hindus, facilities for cremation is equipped, and new technologies is adopted to decrease the pollution caused by activities like open burning of bodies. For Muslim and Christian, the tower provides areas for burial and garden burial and funerals; For Parsis, a structure called Tower of Silence is located on the roof of the tower, used for bodies to be exposed to vultures."

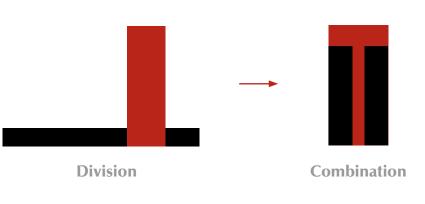
Besides the basic facilities for burial process, Moksha Tower also features public green spaces throughout entire building, allowing families of dead to pray, worship and meditate, these green spaces also help reduce pollution of the city, improving the environment of the city.¹



Fig.2.23

A tower of silence is located on the roof for Parsis, and additional space is available for worship, prayer and meditation. The multi-layered facade is filled with vegetation to absorb heat and CO2, and new technology enables more sustainable cremation that doesn't fill the air with pollution.

Structure



Generally speaking, the function of cemeteries to provide technical facilities is concealed from the public because the funeral industry is based on the principle of protection, sanitation, and beautification of the corpse to avoid people knowing the reality.

However, the **structure** and the **circulation** in these two precedents provide the possibility of companying with the dead to help family and friends of the dead to say goodbye closely.

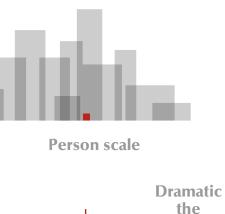
The Moshka Tower was designed for Mumbai to free up a significant amount of ground space for the living, accommodating all four of the major cultures and religions found within the city (Hindu, Muslim, Christian and Parsi.)

RESPECT DIFFERENT RELIGIONS

LANDSCAPE SCALE

The project elevates the individualized event of death to the level of the landscape and prolongs the consequentiality of death, treating death as a visible process.

The dramatic blue, dyes the river, smog and rain of our city as it slowly colors the entirety of London. This forced the city of the living to engage with the city of the dead, in the present, for the benefit of the future, and of the past.

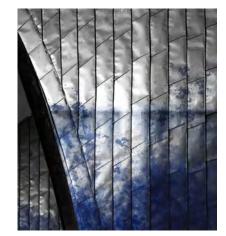


City scale

the movement & **Prolongs the** time

This blue dye is drawn out of the shroud during resomation, coloring the effluent water, garden, building and river Thames blue.

Fig.2.24



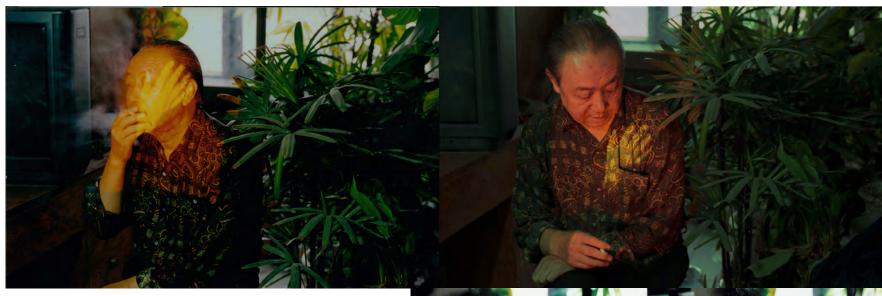
This project build a new city of the dead where Chelsea's pleasure gardens once stood. "Bodies arriving at the London Physic Gardens would be wrapped in a blue shroud printed using the cyanotype process with patterns of the necropolis structures, rendered obliquely. Inside the resomation chamber, the Prussian blue pigment would leach into the water, which is then used to water the gardens. This blue water would also leach from the soil into the Thames, dying the river blue. It would also enter the water cycle, raining down on the city and eventually staining its buildings blue, too. The gradual colouring would serve as a constant reminder of death and the impact of climate on the city."1



Fig.2.25

London Physic Gardens Sam Coulton, London, UK, 2018

CONCEPTUAL ARCHITECTURE



Touching My Father Song Dong, 1977-2011, Performance by Video

In China, the elders and younger generations will not hug, shake hands and initiate other intimate physical contact. The relationship of the father to the son is like that of the king to his people.

"Touching My Father 1997. Song Dong quotes about his experience "While I was touching him with my video projected hand, he was smoking. Unexpectedly, with his eyes on my 'hand' ,he started to take off his jack, the shirt and the vest until he was half naked, feeling my hand with his bare back..."1



Fig.2.26

1. Dong, "Song Dong: Art as My Life."



Interactive intervention



The Eternity of Farewell and Sharing

The artist cast the last image of his father on the water. The thought of his father drove him to reach out and touch the invisible and intangible father reflected on the water with warm hands. Watching his father's image disappear and reappear he could recreate the sensation of touching his father. This led him to say a final goodbye to his father.

Enlarge the Emotion

&

Strengthen the Moment



individual

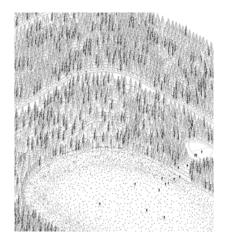
Collective

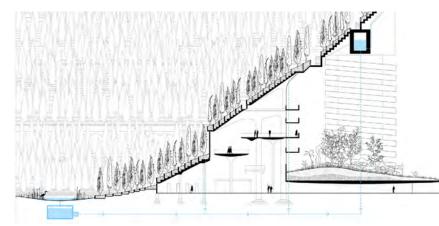
If eternity really exists, then farewell is an eternal ritual. Happening or loss is a momentary thing, what exists is memory and nostalgia. At a certain moment, people suddenly remembered the picture in memory. The memory of the fiinal goodbye is a moment that can be remebered for eternity.



Rather than create a monument with a fixed identity-such as a statuehe is proposing one that will exist in a state of flux and change. The concept of a memorial that is a living, changing entity. The cypress is a common ornamental tree cultivated for millennia throughout the whole Mediterranean region. The dark green vertical shape of these trees is a highly characteristic signature of cemeteries and sacred spaces, like a symbol of immortality, emblem of life after death.

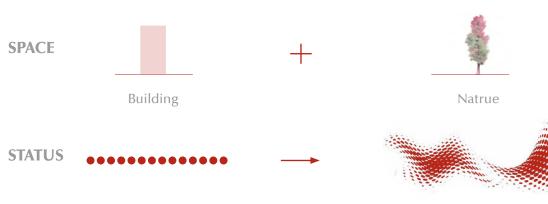
COEXIST WITH NATURE





Dynamic

Section Drawing, Angelo Renna Fig.2.28



Static

San Siro as Coronavirus Memorial Angelo Renna, Milan, Italy. 2020



Italian architect Angelo Renna has suggested planting 35,000 cypress trees in Milan's San Siro stadium to turn it into a public memorial for those that lost their lives during the coronavirus pandemic.

To create the memorial Renna proposed removing the stadium's roof and taking out the seating, before covering the stands with the earth into which 35,000 cypress trees would be planted – around one for each death in Italy. Large holes would be cut through the stadium's stands to create new public routes to a central grassed area.¹

The memorials still in the planning stages are massive in size; probably to demonstrate the enormous influence the pandemic continues to have over ourlives and deaths.

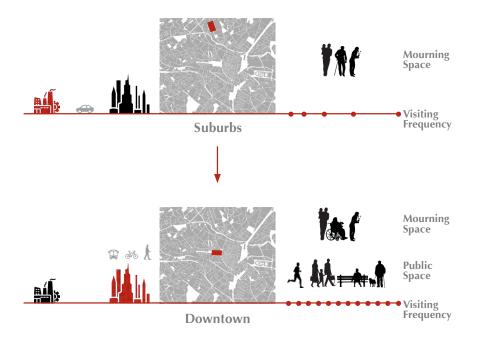


the stars above.

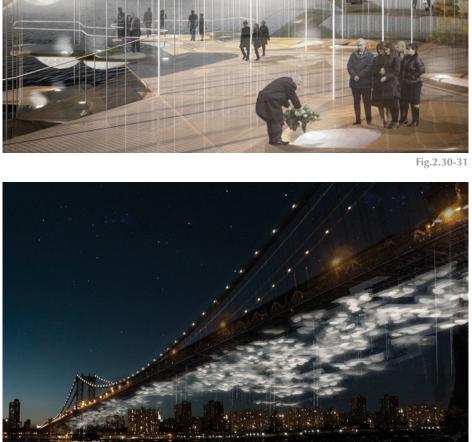
deceased.

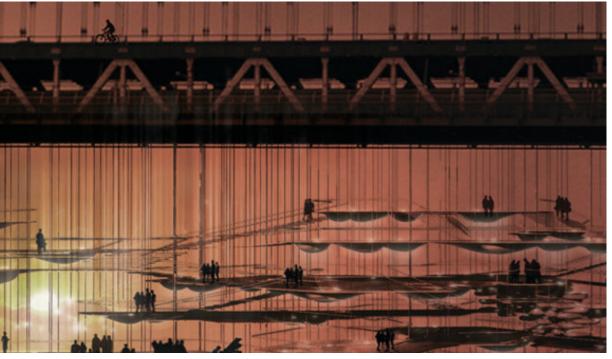
COMBINE WITH CITY

This project takes the cemetery as a public memorial, embedded within the urban life of the metropolis. Through improving the accessibility of cemetery, the mourning behaviors become the part of our daily life.



Therefore, the final resting place for the dead will be a beautiful sea of lights in the modern city. It conveys acceptance of the physical finality of death, while recognizing both the endurance and transience of remembrance, and the cyclical nature of organic life.





Constellation Park

GSAPP - DeathLab, New York, US, 2016

CONCEPTUAL ARCHITECTURE

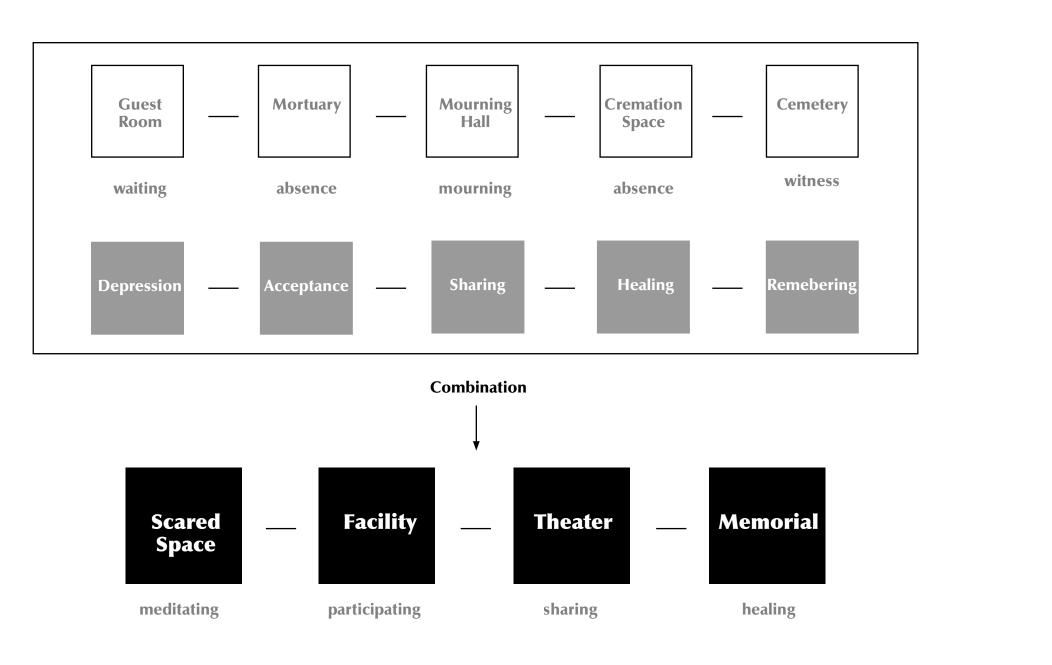
Fig.2.32

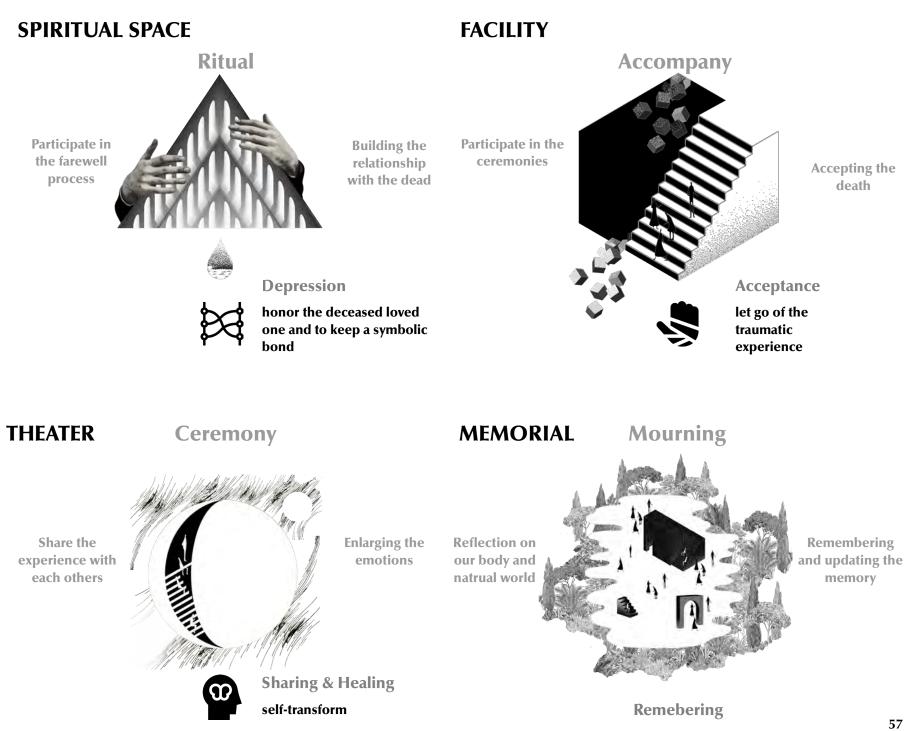
A unique new proposal introduced by Columbia University's DeathLab offers up an alternative way to honor the deceased by transforming the undercarriage of the Manhattan Bridge into a twinkling graveyard, where human remains decompose in biomass pods and emit lights that mimic

"Individual 'mourning lights', powered by the bio-energy latent within the corpse, materialize the ephemerality of remembrance. The aggregate glow of individual vessels generates a perpetual landscape honoring the

Semi-private, sheltered spaces are nested amidst communal processions and large ceremonial areas for diverse public functions. Here, the intimate and communal stages of grief are respected, but not cloistered. These spaces of death and remembrance are defined by and continually fortified within the cycles and energies of urban life."1

SPATIAL NARRTIVES





PROPOSED PROCESS







Carry the body

ij



Farewell ritual

,------



Take a boat

_



Plant the seeds / Mourning

60 **Site Analysis** III

Hong Kong

Star Ferry Pier

User Group

HONG KONG

Hong Kong is an almost 100% urbanized city with high density and a

rapidly aging population. This resulted in a serious shortage of cemeteries

and space.

Based on official 2019 census data, with a total population of about 7.5 million and with a density of 6,781 people per square kilometer, Hong Kong ranks third in terms of population density among cities in the world. For this reason, Hong Kong is almost a 100% urbanized city. Living costs are high, places are crowded, and housing is in short supply. Moreover, the city lacks greenery due to the high costs of land.



in 2021. 1

1. Hong Kong Census and Statistics Department, "Table 1A : Population by Sex and Age Group." 2. Lee, "Hong Kong's public space problem."



Urban Problems

Aging Population

Projections have estimated that the number of elderly people in Hong Kong will rise from 15% in 2014 to 25% in 2024, and similarly, the annual death population will also rise from 42,700 in 2010 to 50,300

Land Shortage



The per capita living area in Hong Kong is less than 14 square meters. Moreover, Hong Kong's urban public space is only 2.7 square meters per capita, only slightly larger than a coffin or toilet cubicle.²

Less Access to Green Space

	CONTRACTOR OF THE OWNER			tite and an entrant	THE PARTY NAMES IN COLUMN
	THE REAL PROPERTY AND INCOME.	11 24 독일 24 -		COLUMN ST .	THE A PROPERTY OF
	IN STREET, LODING			States and a later	A DESCRIPTION OF A DESC
	TRANSPORT OF	HI MARPIT		BIRLE BERRY	
	A DESCRIPTION IN A REAL			angun a mauna a	THE REPORT OF THE PARTY OF
	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O			titeter mintellt	
	COURSES CONTRACTOR			State and state	1 THE R OF THE REAL PROPERTY.
	COLUMN STOR			DOLLAR DATE OF 1	1 TANK A REAL PROPERTY.
and the state of the state of the	REAL OF			State and a little	THE REPORT OF
	THE NEW YORK	M. ALL MORE		114 III - 2 3494	CONTRACTOR OF TAXABLE PARTY OF TAXABLE P
	THE REAL PROPERTY AND A DECK	1 1 1 1		Bigan margi	
	arrange and		100 10	Rigter an man Pill	1 No. of the second second
	CONTRACTOR OF A DECISION OF A DECISIONO OF			terater an an and a line	
	A DESCRIPTION OF A DESC			COLUMN TRANSPORT	I THE REPORT OF A
	· CONTRACTOR OF CONTRACTOR	日間日日		STATE STATE	1 13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	A CONTRACTOR OF A CONTRACTOR OFONO				THE REPORT OF LEVELS
	A REPORT OF A R		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	1 12 H 42	세계 문 문 .		Tinter anterer B	
	ta transmission / 1			Balanter mit mantel # !	1.45
	TR AMON AND A			Bratm margiff #1 !	
	CONTRACTOR AND A DECK			COLUMN DESCRIPTION OF	
	Contraction of the local division of the loc			COLUMN TWO IS	THE REPORT
	A COMPANY OF A COMPANY				
	* H (FRICE ARE)			TITAL	THE REPORT OF
	* 14 U-14 H H H H H H	케이브(티)	100 11	Billater a magnit at 1	
	· ** (1423a april / P * P	1000		and the second state	A REAL PROPERTY OF A
	TO DESCRIPTION OF THE PARTY OF			times and a large state	THE REPORT OF THE PARTY OF

In Hong Kong, public green space actually accounts for 40% of the total land area, a large percentage when compared to London and New York. However, most residents live on only a quarter of the city's land, and it takes residents an hour on average to reach the large country park.



Fig.3.1-2

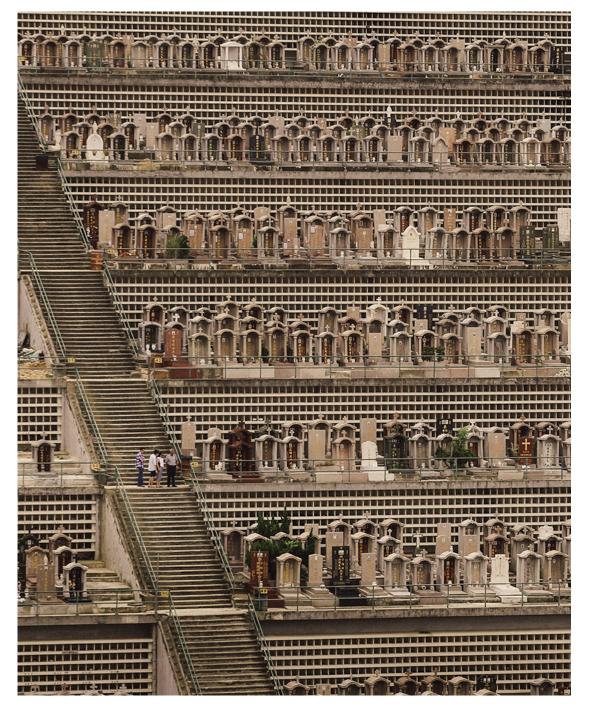


Fig.3.3



Shortage of Cemetery

Due to the serious aging of Hong Kong and other problems, Hong Kong has not been approved for new cemetery land for a long time. The number of deaths in Hong Kong increases gradually each year, with the number of registered deaths increasing from 33,305 in 2001 to 51,536 in 2021, with the number of deaths in the older age group of 65 and above reaching as high as 42,406 in 2021, accounting for 82% of the total deaths in 2021.¹ The shortage will only increase and become more and more serious.



Fig.3.4



1. Hong Kong Census and Statistics Department, "Table 1A : Population by Sex and Age Group."

Abnormal Phenomena

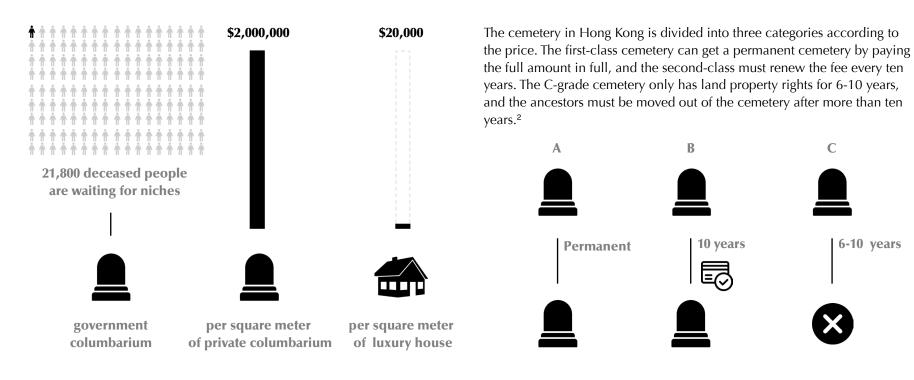
High Cost and Short Term

It can take up to five years to obtain a government columbarium niche at more than HK\$3,000 per niche. According to official figures, there are more than 21,800 deceased people waiting in line for a government columbarium niche. Those who can't wait will have to pay up to \$129,000 for a niche the size of an A4 sheet of paper at a private columbarium. Luxury homes in Hong Kong cost about HK\$151,389 per square meter, which means cemeteries are more expensive than houses.¹

TOUGH AND CONSUMING **AFTER-LIFE**

The 'Dead' Snap Up Property With The Living

The plight of most people has become an opportunity for some businesses. The Chinese media has exposed that some foreigners have been found to be buying homes in the community under the guise of "buying a house and placing the account", but actually placing the ashes in the community. However, it is worth pondering that the "columbarium community" has "filled up" the shortage of public funeral resources in some places in an illegal way.³



The supply of cemeteries in Hong Kong is seriously insufficient, and more and more Hong Kong people are going north to buy cemeteries for their ancestors in recent years. Unable to afford the high price of cemeteries, Hong Kong people have turned to Shantou, Huidong and other overseas Chinese areas along the Xiamen-Shenzhen Railway and Guangzhou-Shenzhen High-Speed Rail to buy cemeteries. At present, nearly 1,000 new remains of Hong Kong people are buried in Guangdong every year, and it is believed that the annual increase will be at least 10% in the future.⁵

Funeral Industry.'



2. Xu, "Cemetery estate World."



UNFAIR DISTRIBUTION **OF RESOURCES**

Annual Grave Sweeping Traffic Jam



Regular traffic is disrupted every year during the tomb-sweeping period of the Qingming Festival and Chung Yeung Festival. So people had to avoid the festival day and go to worship a week earlier or later. But things haven't gotten much better. Every year during the festival, hundreds of people wait in line for the bus, and some people wait for 3 hours to get on the bus, making the original 10-minute drive take 10 times longer to arrive.⁴

High-speed Rail Line Cemetery



AWAY FROM HOMETOWN

3. China Funeral Association, "Cosmic Funeral: The Future Trend of Carbon Neutrality in the

5. Xu, "Cemetery estate World."

4. Wood, "A tomb in Hong Kong is hard to find. Can the sea cemetery change the burial for peace?".

Hong Kong Fung Shui Woods

The symbolic importance of plants and specific trees can be traced across a wide range of different cultures, and the traditions associated with them may have endured for hundreds, and in some cases thousands, of years.

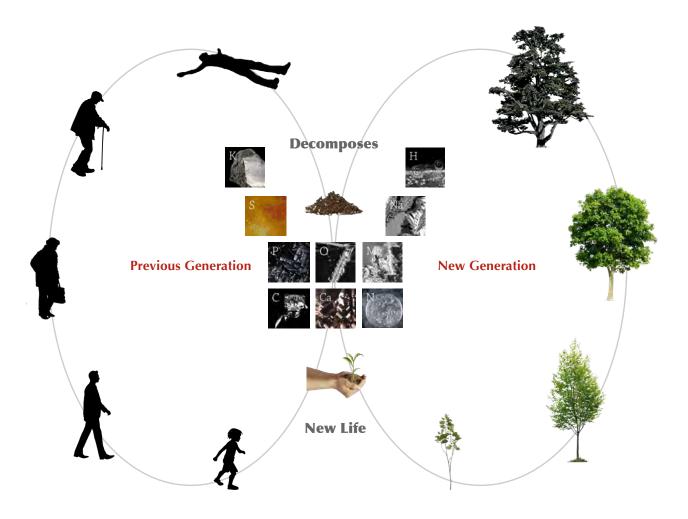
Fung Shui Wood originated from the Chinese traditional value of harmony between man and nature. Likewise, proximity to the woodlands would be of primary preference in choosing village-building sites—not only in the belief that the woods can block the evil spirit—but also in the aim to provide an array of benefits, such as hillsides consolidation, wind blockage, micro-climate regulation and source of fruits.



The trees are seen as individual memorialization. They represent life as opposed to death, permanency as opposed to transience, and provide a vehicle for continuing family relationships following a loss.

Planting Tree When a Child is Born

Chinese folks have a tradition of planting trees when a child is born. In the past, people had the custom of planting commemorative trees in front of their homes or on mountains after giving birth. This is due to the commonly held belief that their children will thrive just like the tree.



The predecessors turned into soil and nutrients can nourish the new generation. It echos the essential of Chinese Ancestor Worship.

Star Ferry Pier

The elderly of this generation are generally people who grew up in pier

culture. For them, the Star Ferry Pier holds solid communal memories.

Pier Culture in Hong Kong

The rise of Hong Kong is inseparable from the wharf, inseparable from a boat of immigrants landing from the wharf, and inseparable from the boxes of goods that stay and travel far away. In other words, the story of Hong Kong is almost equivalent to the vicissitudes of the Hong Kong wharf.



Renovation Purposes



Reactivate the pier culture

In the last century, Hong Kong arose because of the wharf. But in this century the wharf has gradually declined, so the wharf has also witnessed the rise and fall of Hong Kong. Moreover, the marina culture was neglected during the economic transformation of Hong Kong.



Combine with more burial methods

Using the pier as a reuse site, this method would also take advantage of its seaside possibilities and combine additional funeral methods related to water and the ocean, like ocean burial and resomation.



Nostalgic narrative

The elderly of this generation are generally people who grew up in dock culture. Crucially, I think the nostalgic story can inform the narrative. The dock is a place of memory for the community.

Hong Kong's iconic Star Pier

Star Ferry Pier in 1920



Fig.3.5



Fig.3.6

Star Ferry Pier or Tsim Sha Tsui Ferry Pier, is a pier located on reclaimed land at the southernmost tip of Tsim Sha Tsui on Kowloon Peninsula in Hong Kong. It is commonly known as Star Ferry Pier in Tsim Sha Tsui. Star Ferry operates the pedestrian ferry service across Victoria Harbour to Wan Chai and to Central on Hong Kong Island.¹

The old Hong Kong-side Star Ferry Pier, facing the elegant Edwardian buildings that then lined Victoria Harbour. A pre-war Star Ferry is berthing or departing, its engines belching diesel smoke. In the middle distance the General Post Office offers - CABLES. To the right a new-fangled neon light announces – COCA COLA.²

In 2006, a government decision to demolish the pier in Central, close to the city's main financial buildings, triggered sit-ins and hunger strikes. The movement is widely credited with sparking renewed interest in local identity and a new generation of protesters. Many continue to bemoan the site of the new pier in Central as being inconvenient for pedestrians and gaudy in its aesthetics.³



Protect Star Pier Event





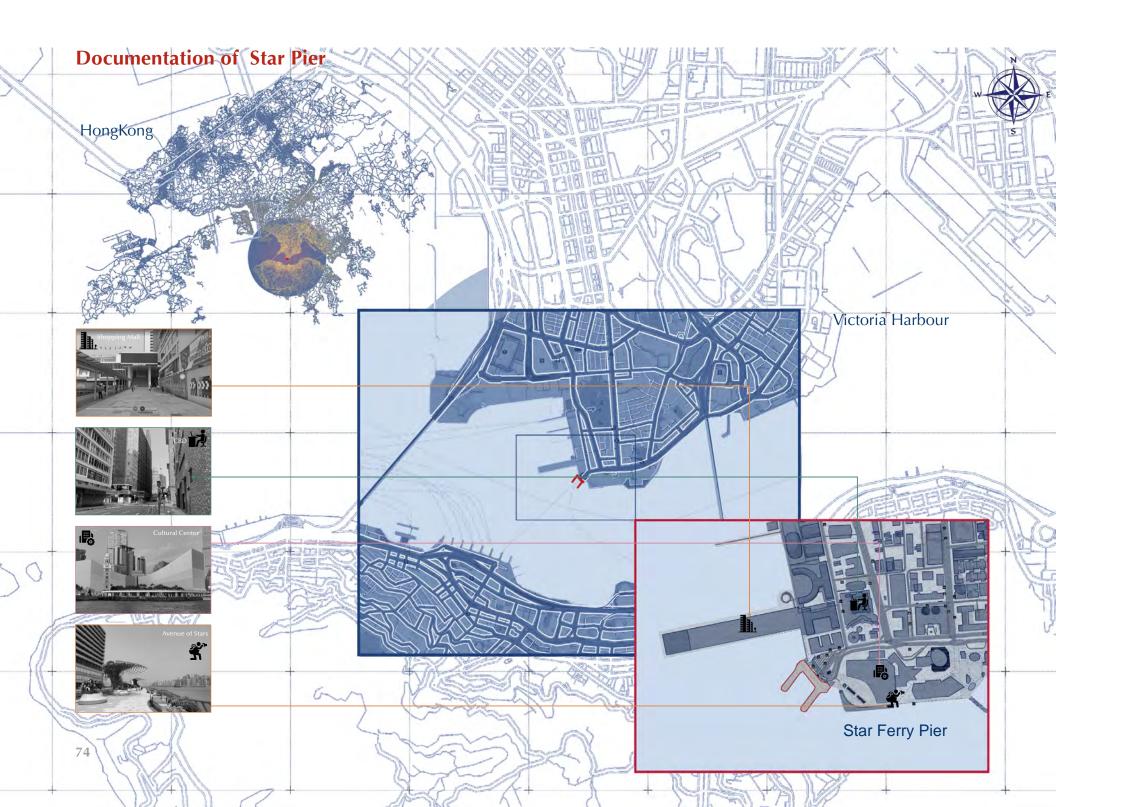
Fig.3.7-8

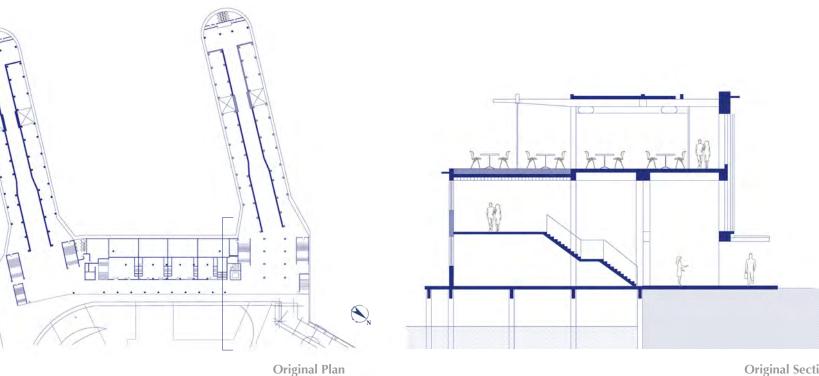


Falling into Difficulties

The 142-year-old ferry, which transports passengers across Victoria Harbour from Hong Kong island to the Kowloon mainland, is seriously indebted. The Star Ferry Company saw a loss of more than HK\$70 million (\$8.9 million) since mid-2019 when mass protests erupted in the city, according to a company statement in March. Its two ferry routes recorded 1 million passengers in the first two months of the year — which was 27% of what was accomplished in 2019.

Covid restrictions caused tourism to remain at a standstill — and looks like it will stay that way for some time. Before the pandemic, almost half of its passengers were tourists.4





Original Section

The pier is close to Star House, . Ocean Terminal, Hong Kong Cultural Centre, and the Clock Tower of former KCR Kowloon Station. The Five Flag Poles between the pier and Star House are a popular meeting place. The Kowloon Public Pier is located south-east.

There are a few retail shops at the Pier, including newsstands, a shop selling Star Ferry merchandise (models of ferries), an HSBC branch, and a Hong Kong Tourism Board information center.¹



View From Horbour City Fig.3.10

Religion

No Religio

Catholicis Christiani

Buddhisn Other Re

from 2006 to 2018.

No Religi

Christian

Catholici

Other Religions

User Group

Throughout history, specific cultural contexts have always played a crucial

role in how people perceived death. Different societies have held widely

diverging views on the "breath of life" and on "how the soul left the body"

at the time of death.

Diversity in Hong Kong

		All Group
gion		54.4% - 64.6%
cism& nism	24.1% - 31.0%	
m& eligions	10.7% - 16.3%	

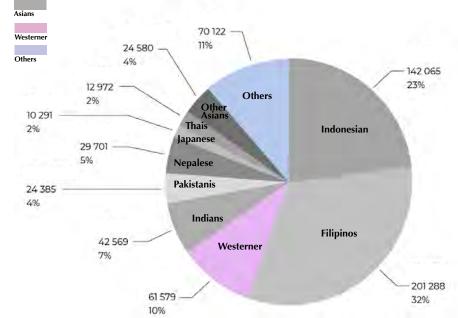
Figure #: Information sourced from: Data on academic research articles published in Hong Kong

Younger Group (15-24 years-old)

_		
		79.2%
	16.7%	
	2%	
	2.1%	

Information sourced from: Hong Kong Annual Report 2016 and the fact sheet "Religious Facilities in Hong Kong" of the Legislative Council Secretariat Information Research Group

Ethnic group



According to the results of the 2021 Population Census, about 619,552 people in Hong Kong reported as non-Chinese, accounting for about 8.4% of the population.

Based on the data, Hong Kong seems to be a culturally diverse society. Regarding itself as a cultural diversity and not regard any one culture as the dominant culture. There are also some social developments in Hong Kong, like the proportion of no religion in the new generation increased. To create an equal afterlife and respect for all citizens of Hong Kong one will have to address multiculturalism and current social developments. This kind of cemetery has to be **secular** and **sacred** for **all religious** and non-religious individuals from all nationalities and ethnicities.

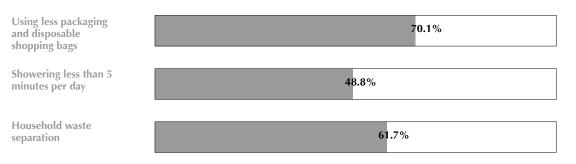
For The Deceased

Embrace An Earth-Friendly Afterlife

• Nature Lovers

A representative sample of 1,017 Cantonese-speaking local residents of 15 years or older was selected based on the distribution of Hong Kong population in terms of age, gender, and district.

CARBON-REDUCING **BEHAVIOURS**



A territory-wide large scale study by the Collaborating Centre for Oxford University and CUHK for Disaster and Medical Humanitarian Response (CCOUC) in 2016 found that **Higher proportion of people of** older age groups frequently practise carbon-reduction behaviours, in contrast to the general impression that younger generations adopt environmental-friendly behaviours more readily.

The rise and fall of the **Star Ferry**



The growth of one generation

• Traditional Chinese

Green burial not only seeks to ensure a balance between humanity and nature but also reflects another sentiment deeply rooted in Chinese tradition - what we might call today our footprint.' As the early twentieth-century poet Xu Zhimo (1897-1931) wrote, "Very quietly I take my leave, as guietly I came here; Quietly I wave good-bye, to the rosy clouds in the western sky".

The resource-saving and environmentally-friendly funeral activities and practices of green burial allow people to return to nature unobtrusively.

The Chinese saying "Tian Ren He Yi" – "天人合一" – Nature and human beings combine into an integral whole."Ecological funerals and interments reflect this "Combining Into An Integral Whole."1



"天人合一"

Return Back To The Memories

• Nostalgic Elderly Group

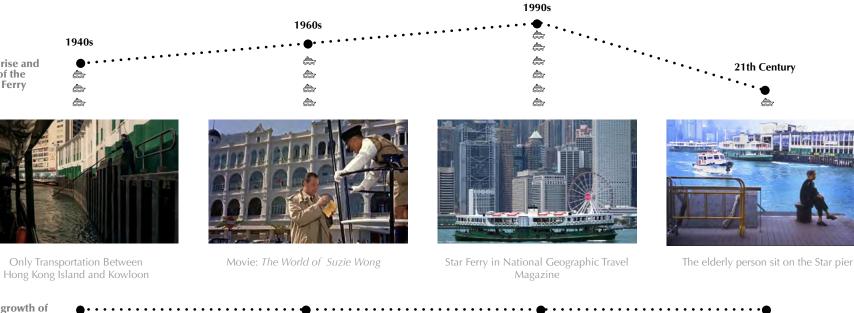
The elderly between the ages of 70 to 80 were generally people who grew up in the ferry culture. Star Pier has the emotional value and memorial value for this generation. The collective memory can be the intention for returning to this place.

Back then, the Star Ferry shuttled individuals across the waters of Victoria Harbour, was the only means of transport for residents of Hong Kong Island and Kowloon to travel between the two places.

The Star Ferry has been featured in many movies during the 19th century. The ferry itself is a symbol of Hong Kong. In 1999, National Geographic

Travel Magazine listed the Star Ferry as one of the "50 Must-Visit Attractions in Life", and the Society of American Travel Writers selected it as one of the "Top 10 Places in the World". Best Ferry".

However, According to the Hong Kong Maritime Port Authority, the number of ships arriving in Hong Kong has sharply declined since 2020 citing arriving cargo ships fell by 9.2% year-on-year and the number of passenger ships fell by 90.4% year-on-year. In 2021, the data continued to show a downward trend.







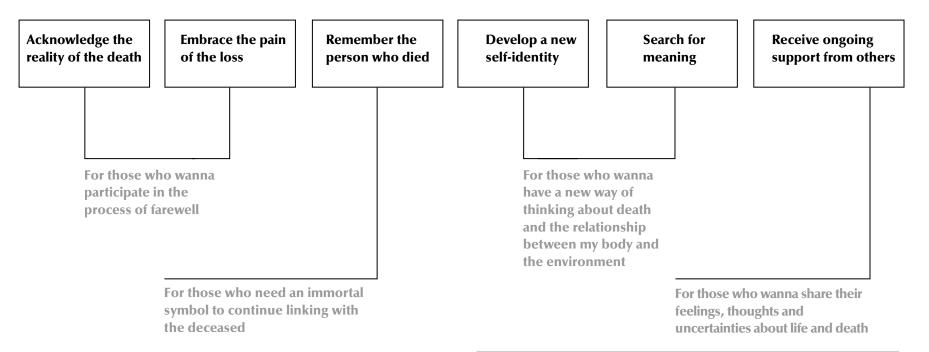
For The Living

Hong Kong's green space coverage rate is 70%, and residents only have access to 35%. The two greenery in this area needs to support a population density of 44,458 per square kilometer.

• Family and Friends of the Dead

Dr. Alan D. Wolfelt, PhD, has defined the Six Needs of Mourning. His research shows that all grievers need to do these six things at some point along their grief journey if they are to heal.¹ Green burial offers a chance for symbolic immortality by re-entering nature via a process of decomposition while also offering shared activism with family or friends. People are engaged in every step, which helps meet the six reconciliation needs of mourning.

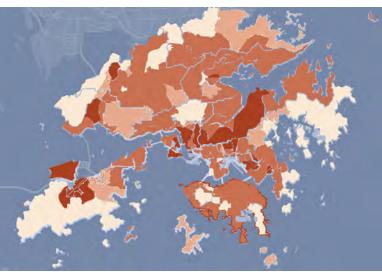
SIX RECONCILIATION NEEDS OF MOURNING



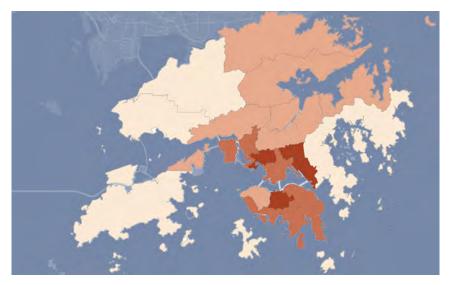
^{1.} Alan. "Why Is the Funeral Ritual Important?"

• The Public

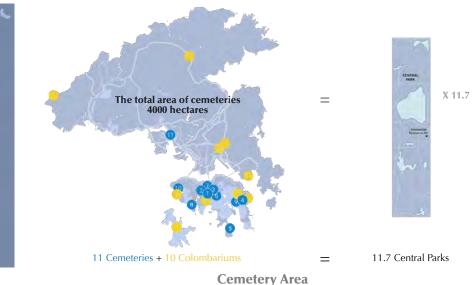
Create A Green Public Space to Acess



Population Densities



Senior Population





Open Green Space

82 **Design Proposal**

IV

Context Conclusion

Spatial Arrangements

Narratives

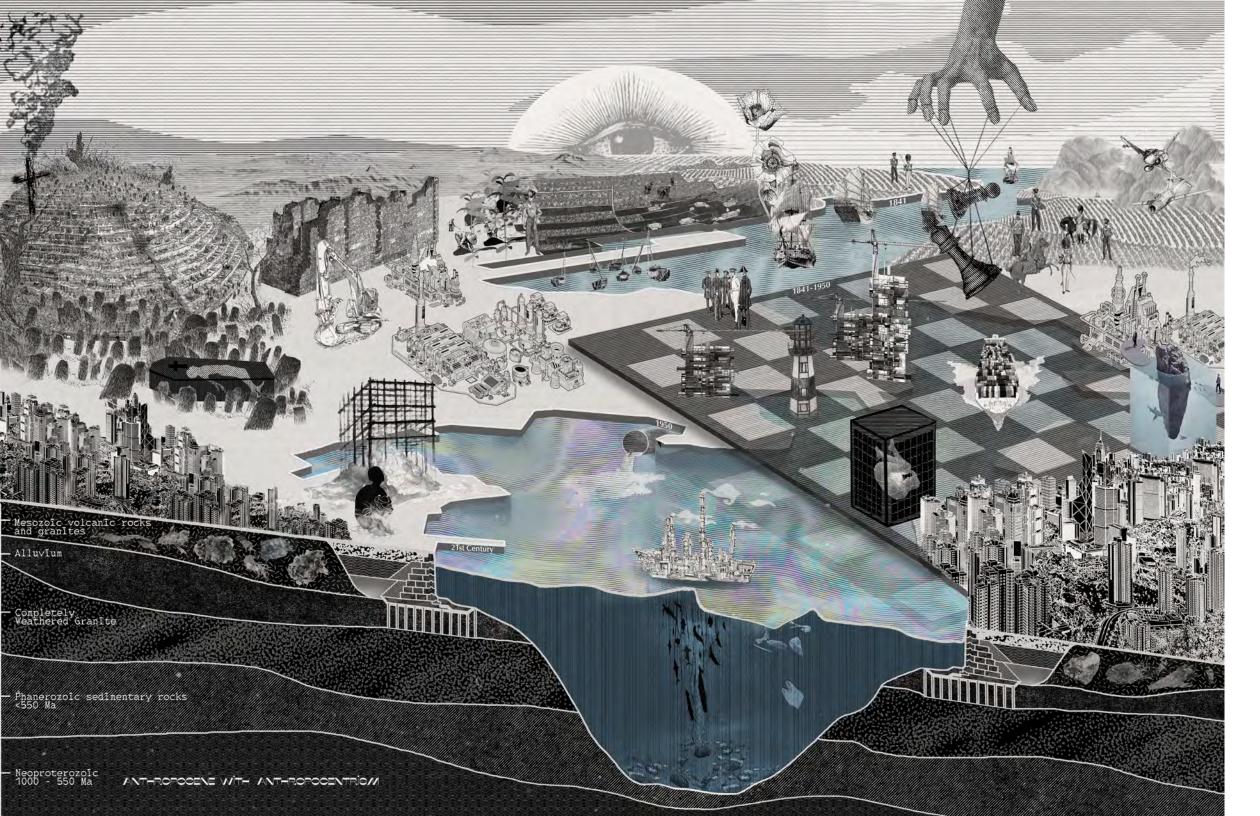
Epilogue



Context Conclusion

With-Nature

Burial and Funeral culture are the product of human self-awareness reaching a high degree. This collage shows before civilization's emergence, the original burial methods from nature. From ancient times to the present, the earth has hosted about 107 billion human beings. As scary as it may sound, the truth is that the earth has reabsorbed the dead into its elements for so many millions upon millions of years. The book named The Dominion of the Dead said: "Through the action of fire, the corpse gives itself up to air; through inhumation or simple putrefaction it returns its composite substance to the earth; through the force of gravity, it sinks into the sea's underworlds. Whatever biomass it receives after the extinction of life becomes part of the planet's receiving matter-matter from which life, its imponderable origins, in turn, emerges." If we are in the background of de-anthropocentrism, people are just the same as other species rather than higher than other species. The human body has essentially the same chemical basis as the earth itself, making it suitable to contribute to natural ecology. Human bodies, when they perish, share in this organic afterlife of the dead. They are rolled round in the earth from day to night, with rocks, stones, and trees.

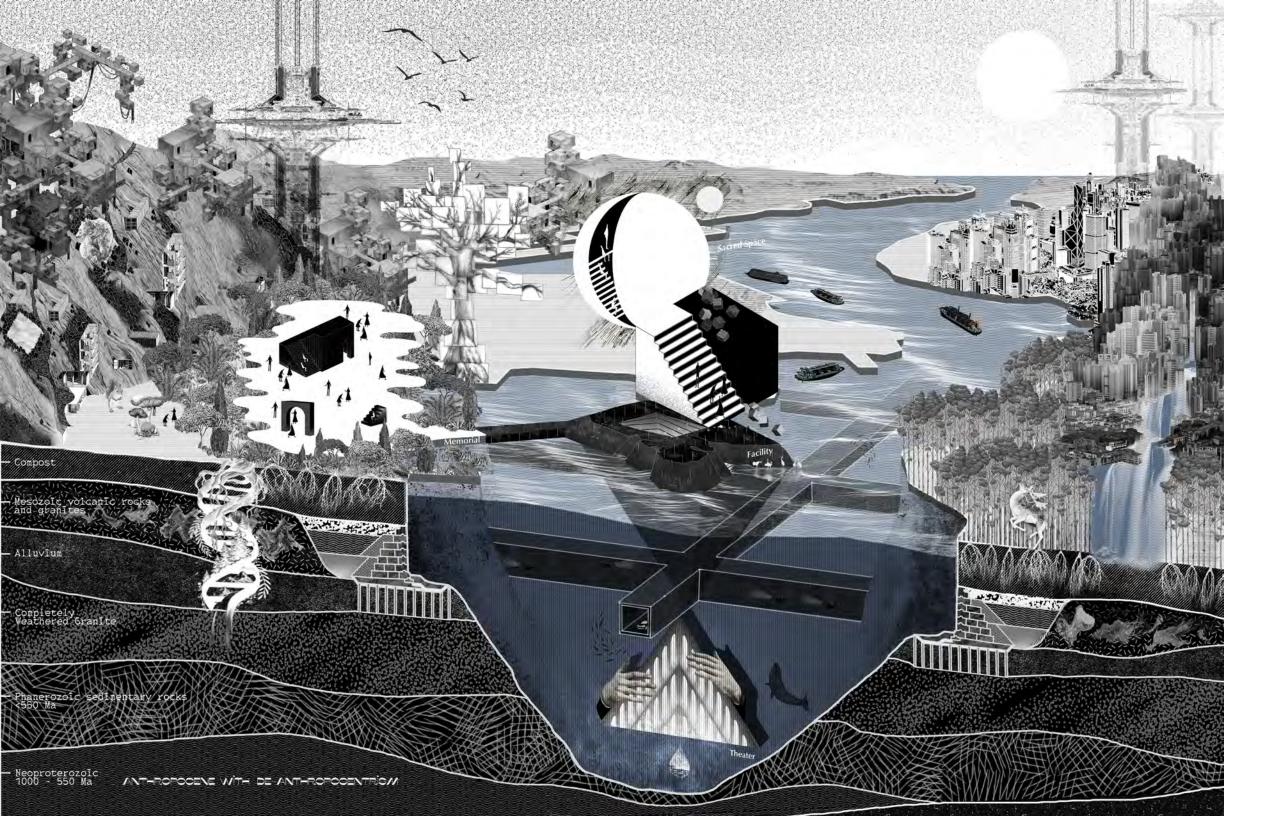


Against-Nature

The drawing takes Hong Kong's urbanization as a clue and the river as the timeline because the rise and fall of the pier echo the history of Hong Kong's development. Hong Kong is a city that relied on the piers to rise, it is the hub for connecting the west and east in the war period, so it also echoes the history of being invaded and colonized. So I have divided its development into four stages - invasion - colonization - capital intervention and saturation.

In 1841, Hong Kong was ceded to Britain. And become the military outpost. The British bring the opium to the land and then make money. Then in colonization history, Hong Kong's harbor was an important trading port to output and input resources from East to West. Hong Kong's harbor is like a chessboard controlled by different powers in modern history. The human connection and entanglement with nature gradually weakened during urbanization and the pollution still increased leading to the urban texture continuously changing. Hong Kong's urbanization has led to a series of problems: overpopulation, plastic pollution, air pollution, and ocean pollution.

We are in the background of anthropocentrism, the funeral industry is multi-billion-dollar, and its economic model is based on the principle of protection, sanitation, and beautification of the corpse. cremation and earthen burial, there is a lot of pollution in the land and air. We are trapped in the building when we are alive. After we die, we will still be trapped in the nondegradable coffin or the urn, so we cannot return to nature.

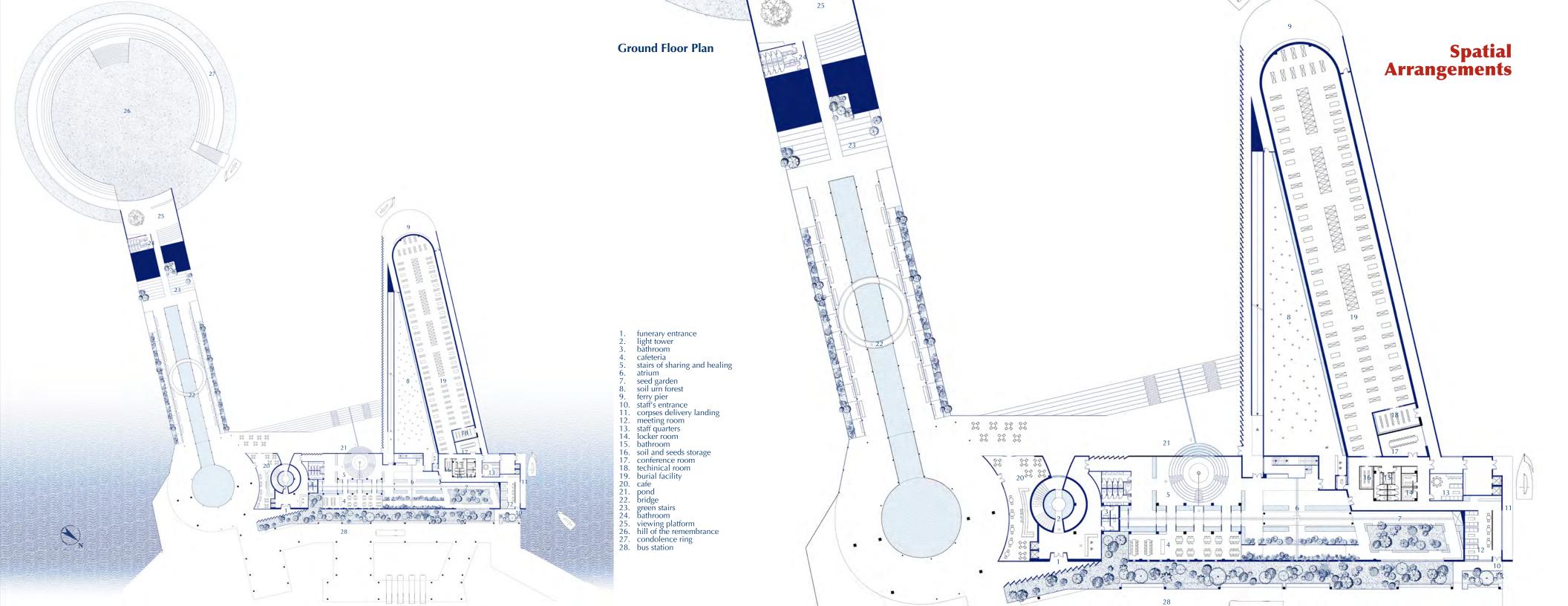


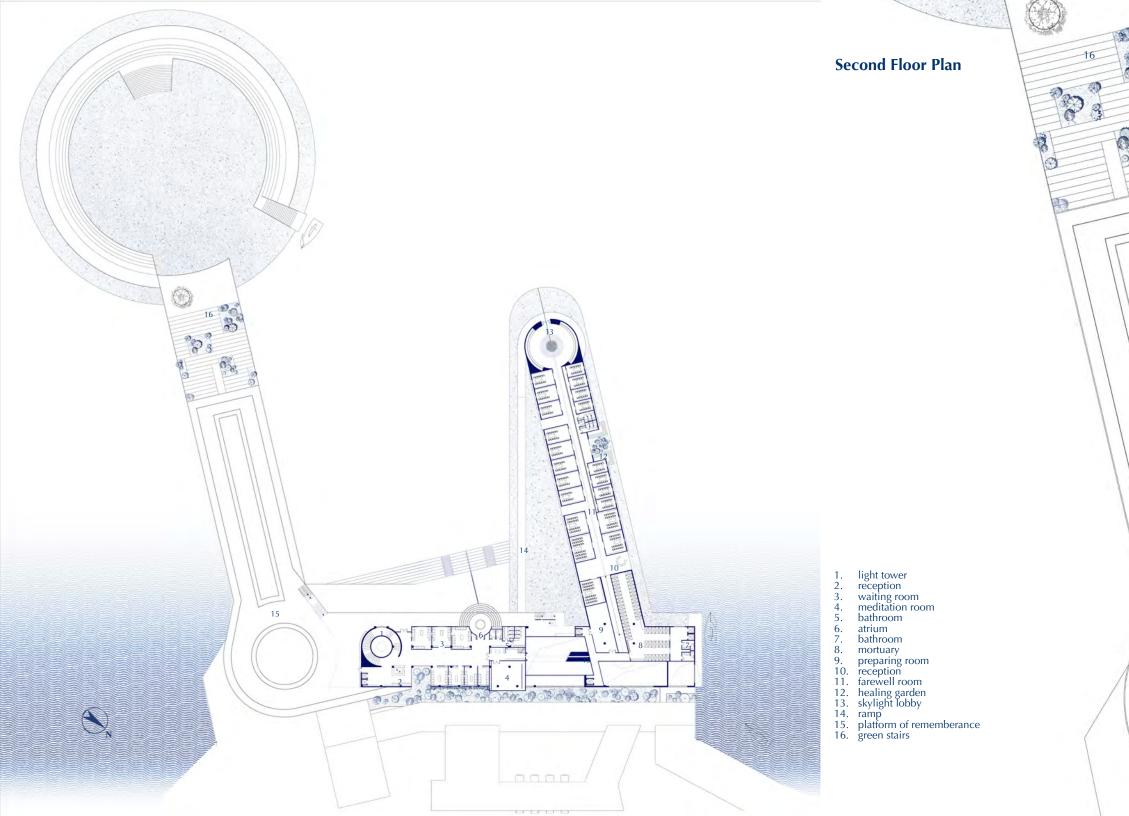
Relink to Nature

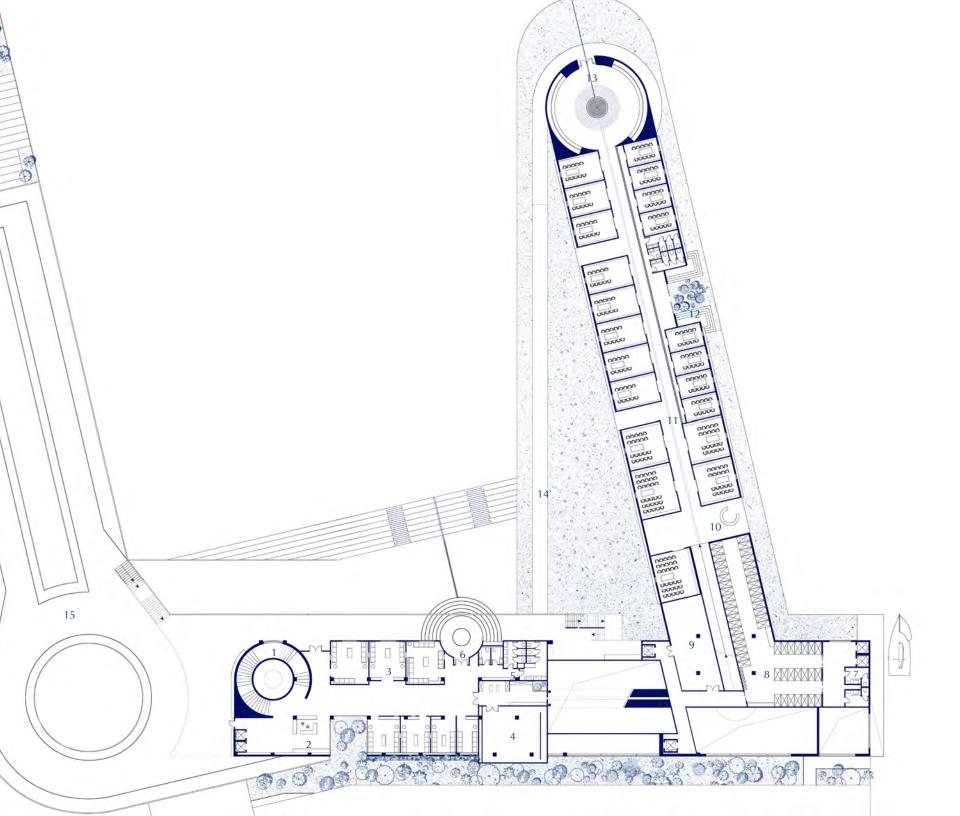
The CHARACTER of the Farewell Architecture fluctuates between that of a factory, that of a sacred space, that of a theatre, and that of a memorial. In the drawing, I have symbolized these four characteristic spaces and combined them as conceptual architecture.

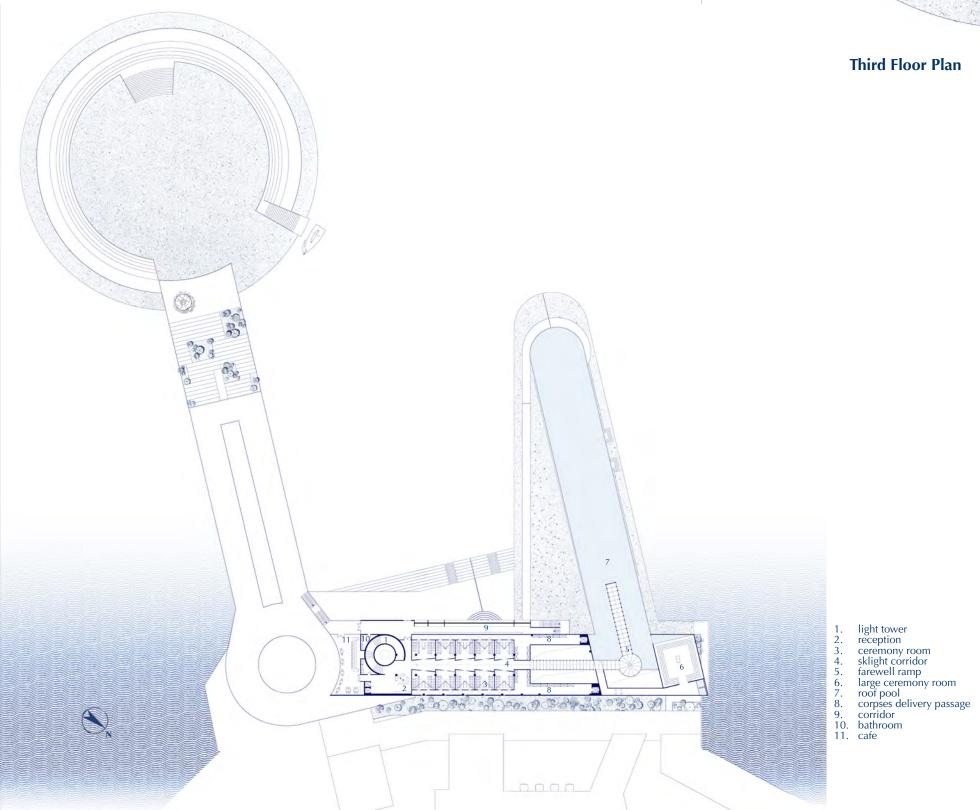
The farewell architecture features all kinds of expressions of the metaphysical. Some are ecclesiastical in character, for example by including some spiritual space. Expressing grandeur as that which is larger than (human) life, is often charged with symbolism. It provides a ritual to let people participate in the farewell process to build a relationship with the dead. Facility is part of the burial space. It provides the functionality and technic for the burial. The farewell spaces are also the theatres of the final farewell, especially when ceremonies are held there. The building can dramatize this moment, it can also be a space for a 'performance'. The memorial is something that keeps remembrance alive. After the whole farewell process, people need spaces with symbolic meaning to mourn and capture special memories of their loved ones.

After the green burial, You become a tree, as the growing memory. The whole forest could be the collective memory of loved ones.



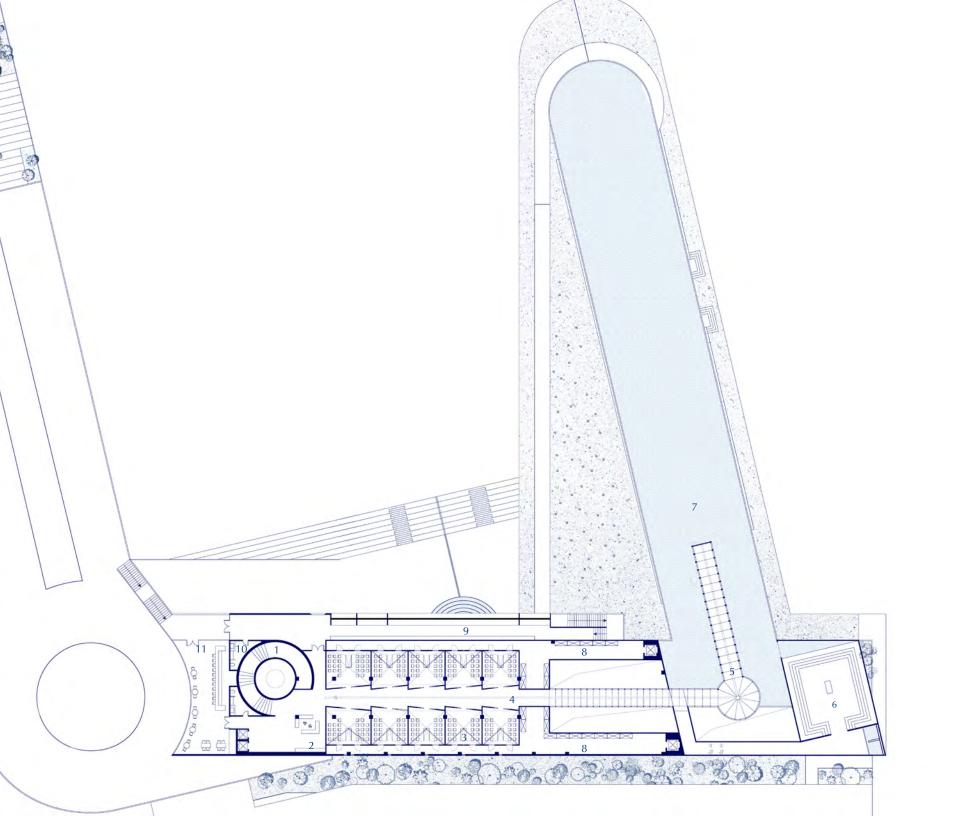


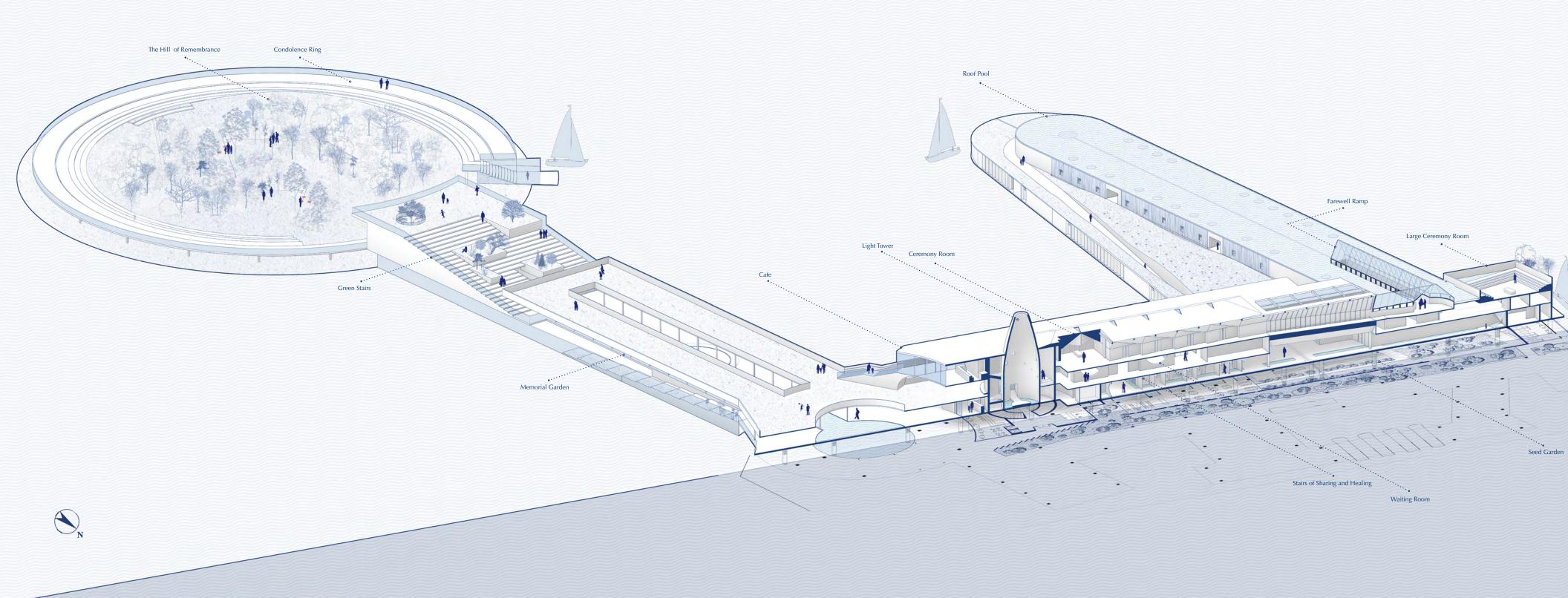


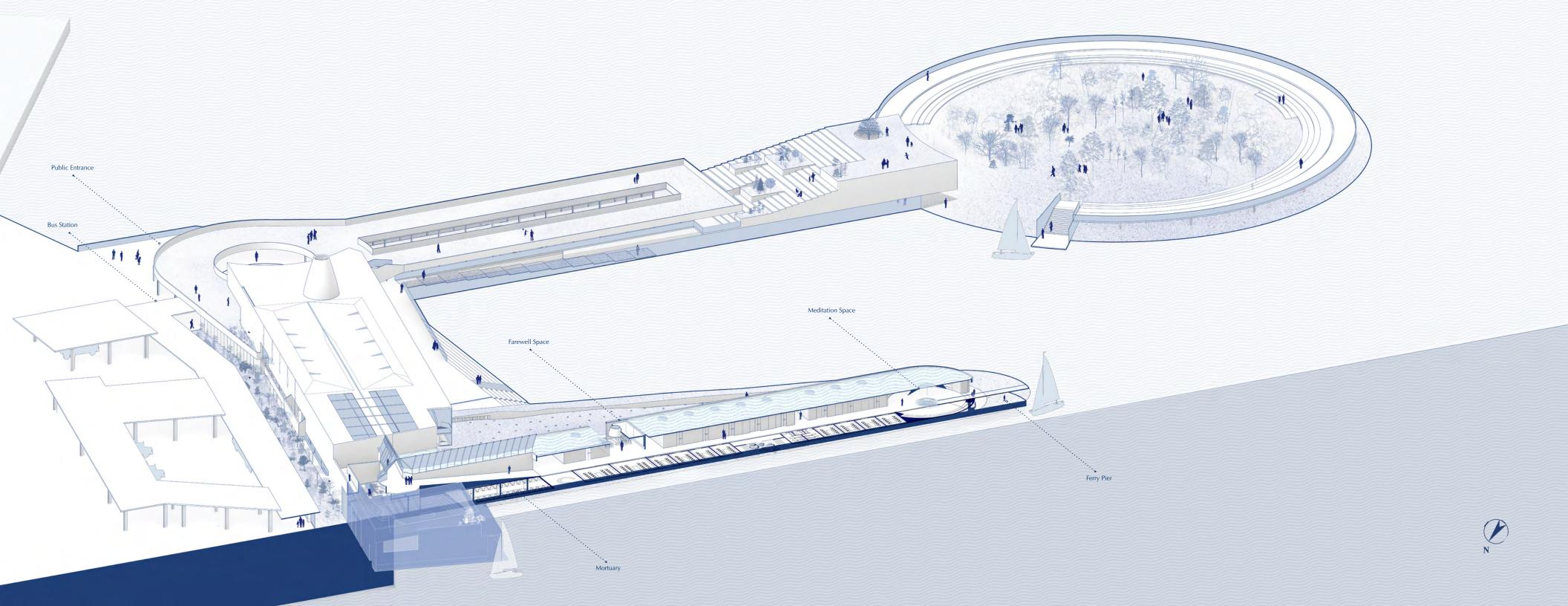


* 1 XXX

200

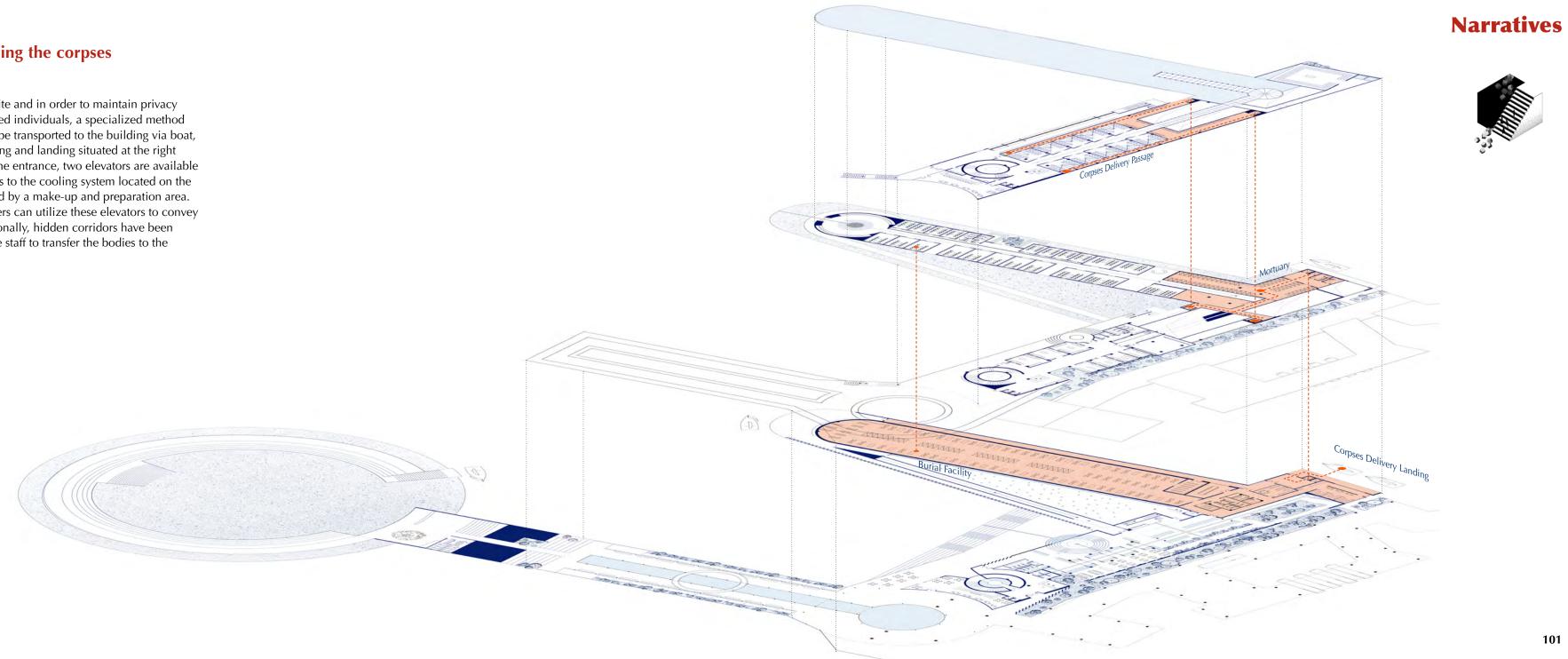






1. FACILITY for storing and decompsing the corpses

Due to the central location of the site and in order to maintain privacy during the transportation of deceased individuals, a specialized method has been adopted. The bodies will be transported to the building via boat, with the designated point of handling and landing situated at the right edge of the first floor. Adjacent to the entrance, two elevators are available to facilitate the movement of bodies to the cooling system located on the second floor, which is accompanied by a make-up and preparation area. For further procedures, staff members can utilize these elevators to convey the bodies to the third floor. Additionally, hidden corridors have been constructed on both sides to enable staff to transfer the bodies to the respective ceremony rooms.



2. SPIRITUAL SPACE for new ritual of farewell



Meditation





Carry the body

1252

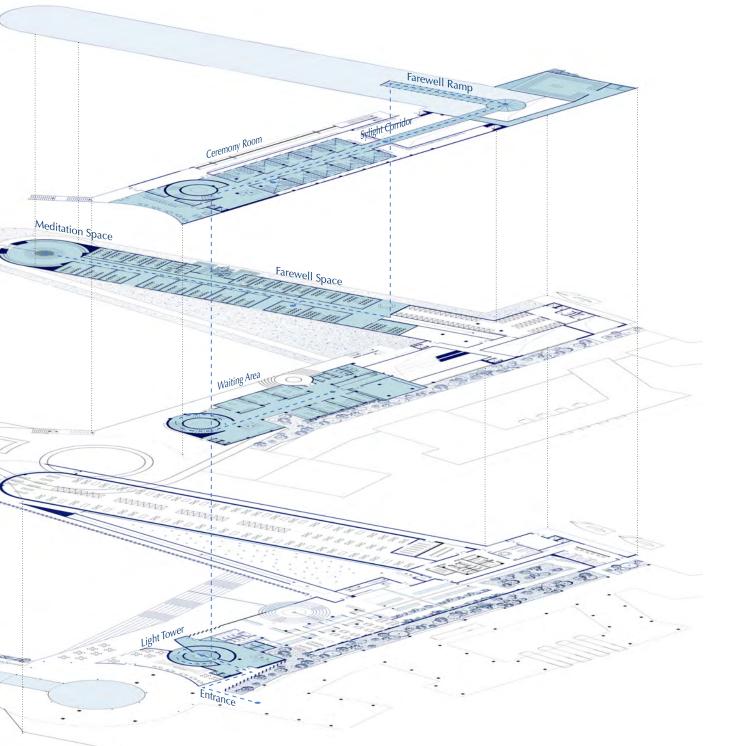


Farewell ritual

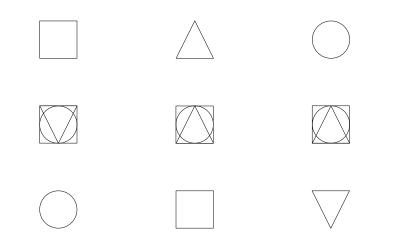
(-D-)

The central building holds significance within the premises. To establish a seamless circulation, the incorporated ramps connecting the central and right buildings, forming a triangular loop encompassing the Facility, Spiritual Space and Theater. Considering the proximity to a crucial bus hub, the funerary entrance has been situated on the left side. The roof, previously linking the pier and bus station, has been transformed into a half-covered, half-garden structure, shielding citizens from view and creating a serene and uninterrupted entrance.

102









Light Tower

Upon entering the main entrance, mourners proceed along a corridor that leads them to a dimly lit space, except for the radiant "light tower," serving as a central hub connecting the three stories. Upon reaching the light tower, a breathtaking panorama of the open ocean unfolds before their eyes. Ascending the spiral staircase discreetly located behind a wall to the second floor. This experience allows people to quickly isolate themselves from the hustle and bustle to better recall back memories.

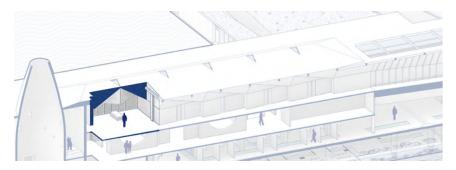




Ceremony Space

In the ceremony room, mourners encounter the departed, with the body being discreetly transported by staff via the hidden corridors previously mentioned. The structure connects the roof opening allows the skylight to be concentrated at the forefront of the platform, ensuring the focus remains on the face of the deceased.

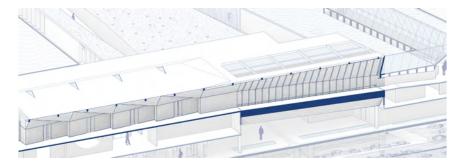
Furthermore, this architectural design embraces and respects all religions, creating an inclusive environment for diverse spiritual beliefs. The "Spiritual Space" embodies an absence of explicit or emblematic religious elements, instead emphasizing the utilization of natural elements such as water, sky, and light. Within the ceremony room and meditation area on the second floor, adherents of various religious traditions are free to engage in their unique rituals, as no restrictions or prohibitions are imposed. The space exists to accommodate their religious practices, serving as a support rather than a constraint.

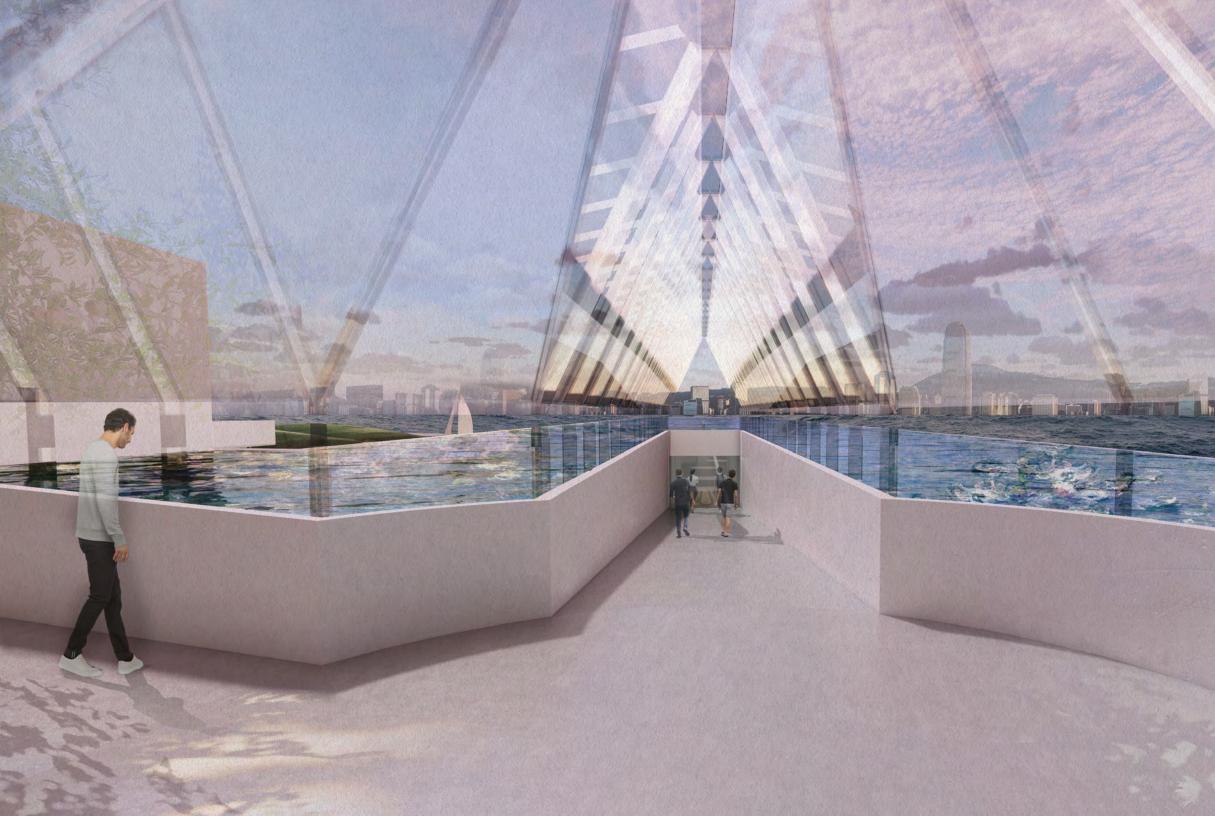




Skylight Corridor

Following a brief ceremony, relatives accompany the body to the farewell space through an overhead ramp leading to the roof ramp. This symbolic journey mirrors the companionship experienced during life's final journey. By fostering a secure and open interaction with death and the deceased, individuals find solace and purpose, unburdening their grief and embarking on a path of healing.

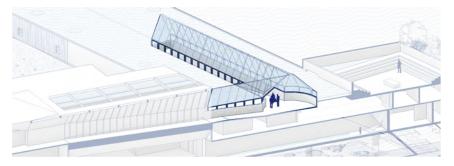






Farewell Ramp

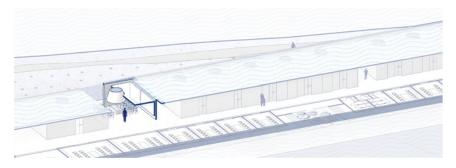
During this process, individuals transition from the interior to the exterior. The journey leads to the bottom of the lotus pond, where an intriguing play of water reflections mirrors the sky with gentle waves. The rectangular entrance slit guides the eye downwards to darkness. People carry the body and pass through this expanse of water into the space beneath the water's surface.

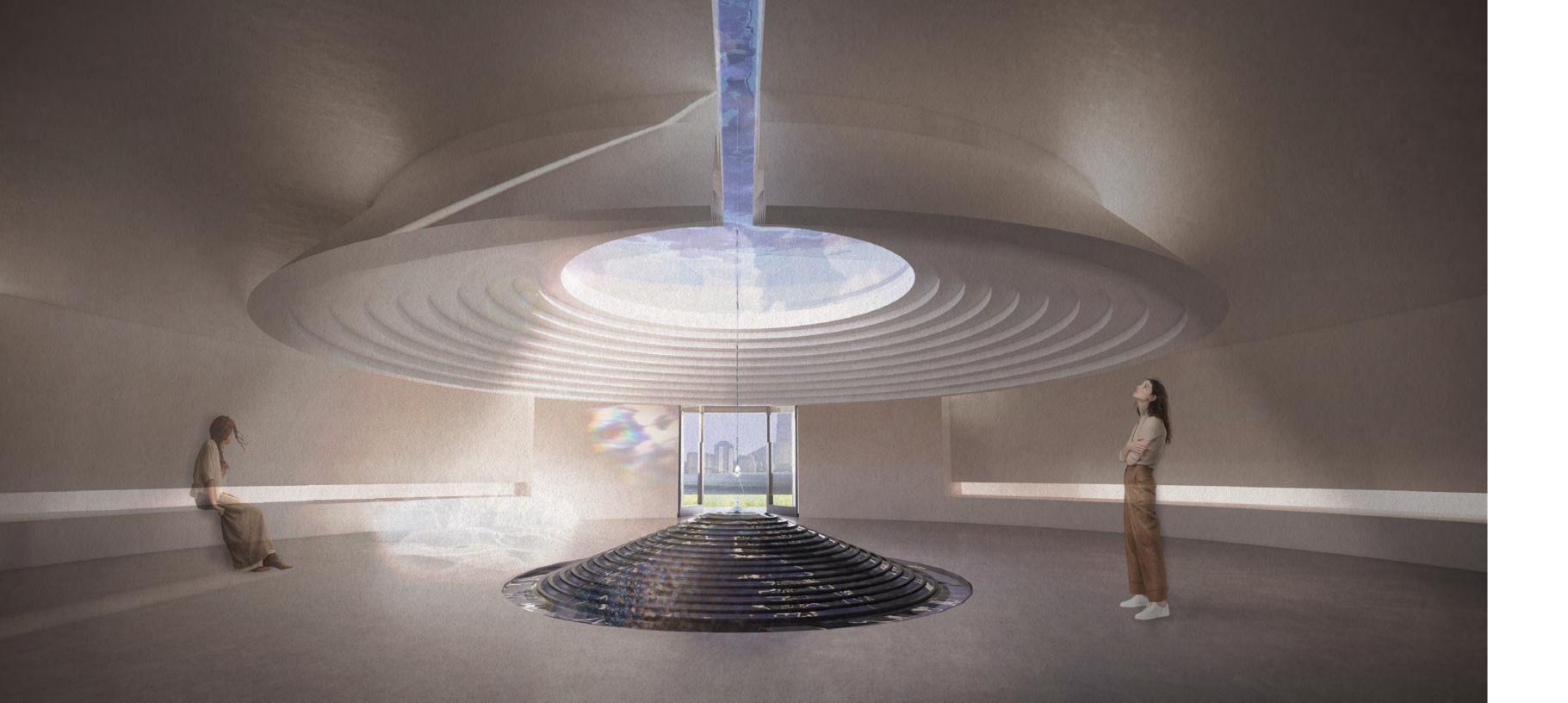




Farewell Space

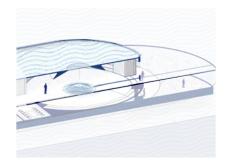
In the farewell space, relatives sprinkle a mixture of sawdust, purple clover, and straw onto the body, aiding in the natural decomposition into soil. By pressing a button, the body gently descends to the first floor via an elevator. Bamboo plantings shield the view from the bustling city while cascading water from the roof flows down to create a curtain outside the window. The skylight above allows light to filter in, casting shimmering water reflections on the deceased.





Meditation Space

The meditation area features a tiny opening on the ceiling, with a crystal pendant reflecting rainbow shadows and guiding water drops from the roof pool into a pond.



3. THEATER for gathering and healing





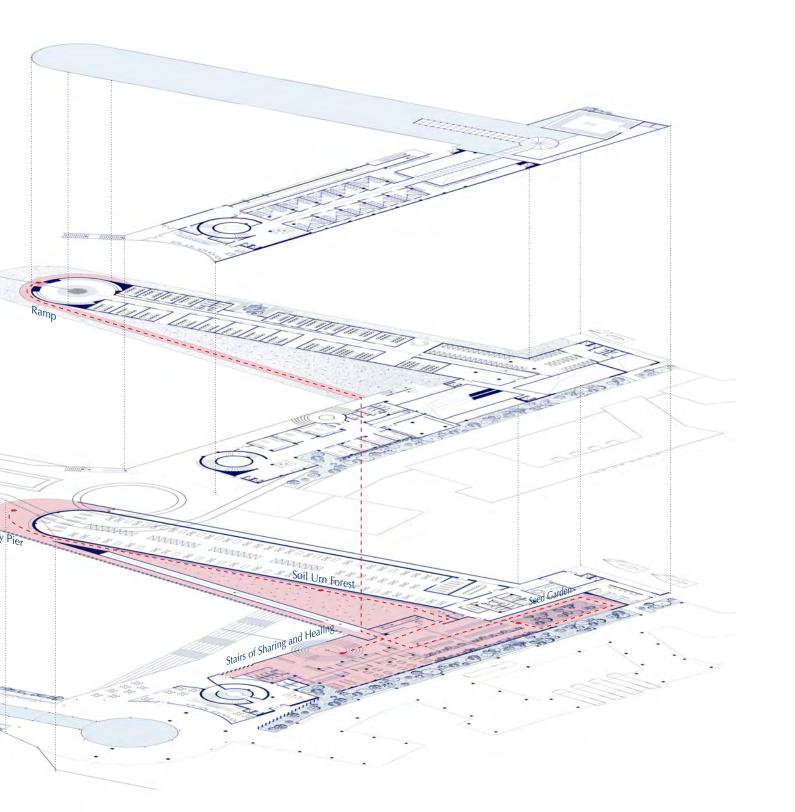
Pick up the ashes



Take a boat

1000

The theater serves as a stage to depict the post-farewell moment, providing individuals with a space to engage in specific activities that serve as an anchor for releasing their grief. Through the utilization of symbolic objects and actions, individuals have the opportunity to transform their emotions into ritualistic expressions. While the irreparable loss remains unchanged, these behaviors offer a means to articulate and enact the depths of their painful emotions.







Stairs of Sharing and Healing

Descending from the grassy slope, individuals return to the first floor of the main building, entering the theater section. A staircase space facilitates communication among different families, allowing for the sharing of emotions and stories, providing solace and mutual healing.



Seed Garden Entrance

Additionally, while waiting, families can select seeds for their loved ones, symbolizing the potential to become any chosen plant after death.

Each plant species is assigned a unique number, and the render depicts the entrance to the interior seed garden. Behind the entrance lies a skylight atrium, bathing the garden in sunlight, with its three-story height creating a vibrant and flourishing space.





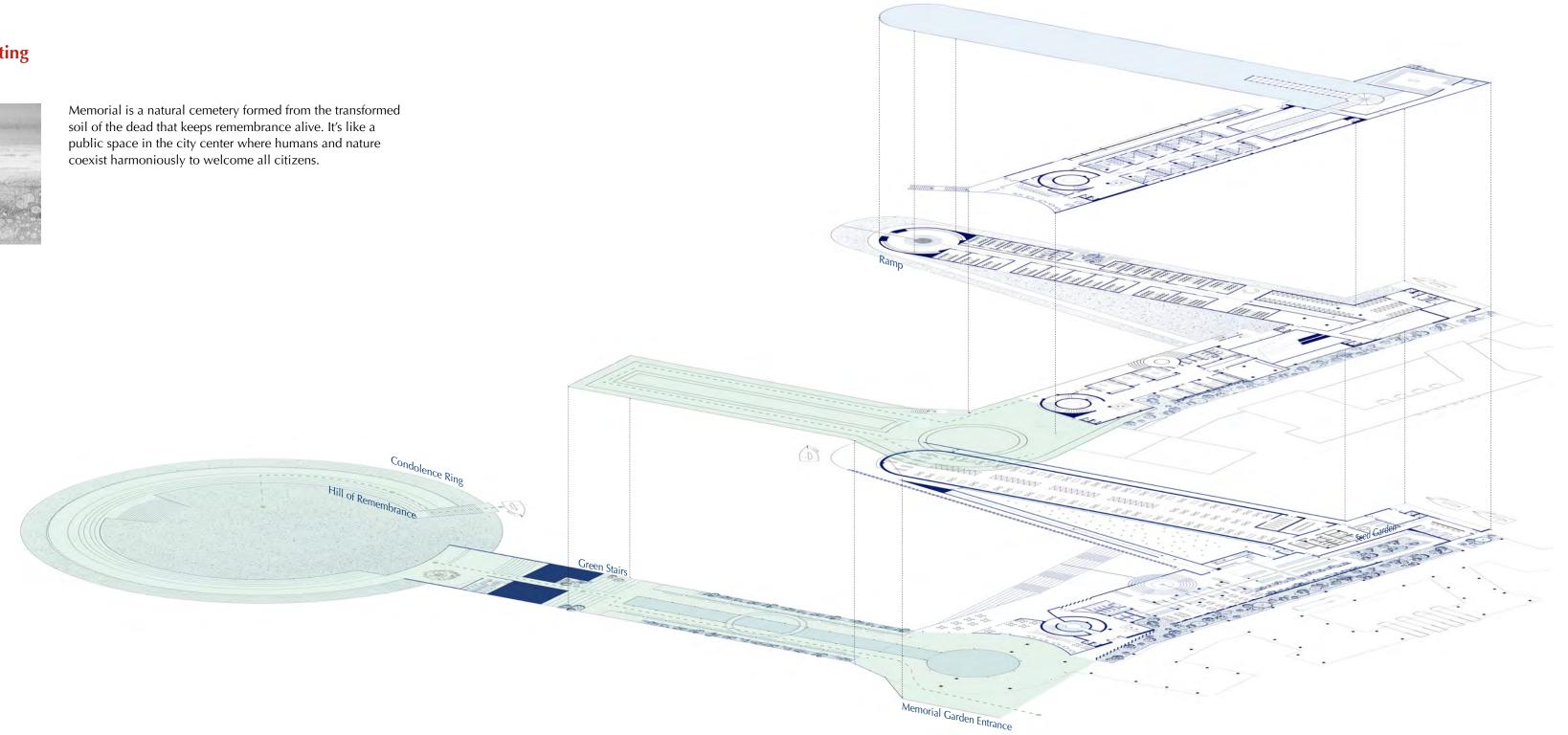
Soil Urn Forest

Subsequently, upon choosing the seeds, family proceed to an area concealed beneath the grassland, where numerous openings are created. These apertures, positioned contribute to the formation of a luminous forest through the implementation of light-guiding materials within the columns. Within this ethereal space, urns are elegantly showcased, symbolizing a profound reconnection with nature and the prospect of rebirth. Towards the right side, a gap allows the water curtain from the farewell scpace to cascade into this realm, forging a fluid link between the farewell space and the domain of soil urns. Progressing through these columns akin to light-filled trees, individuals traverse towards the conclusion of this space to arrive at a pier, where a boat awaits to transport them to a small hill floating upon the ocean's surface.

4. MEMORIAL for mourning and reflecting



Plant the seeds / Mourning

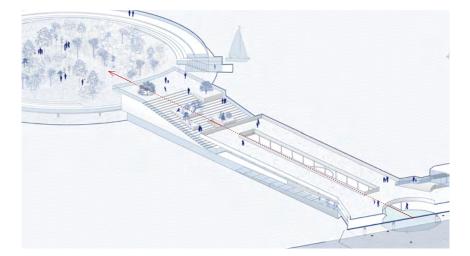






Memorial Garden Entrance

The entrance to the memorial is accessible to all citizens, featuring a central elongated pond that guides a direct line of sight. Upon entering, individuals can immediately behold the distant hill at the end of the space. An arch bridge connects the flow of people on both sides of the slender central pond.

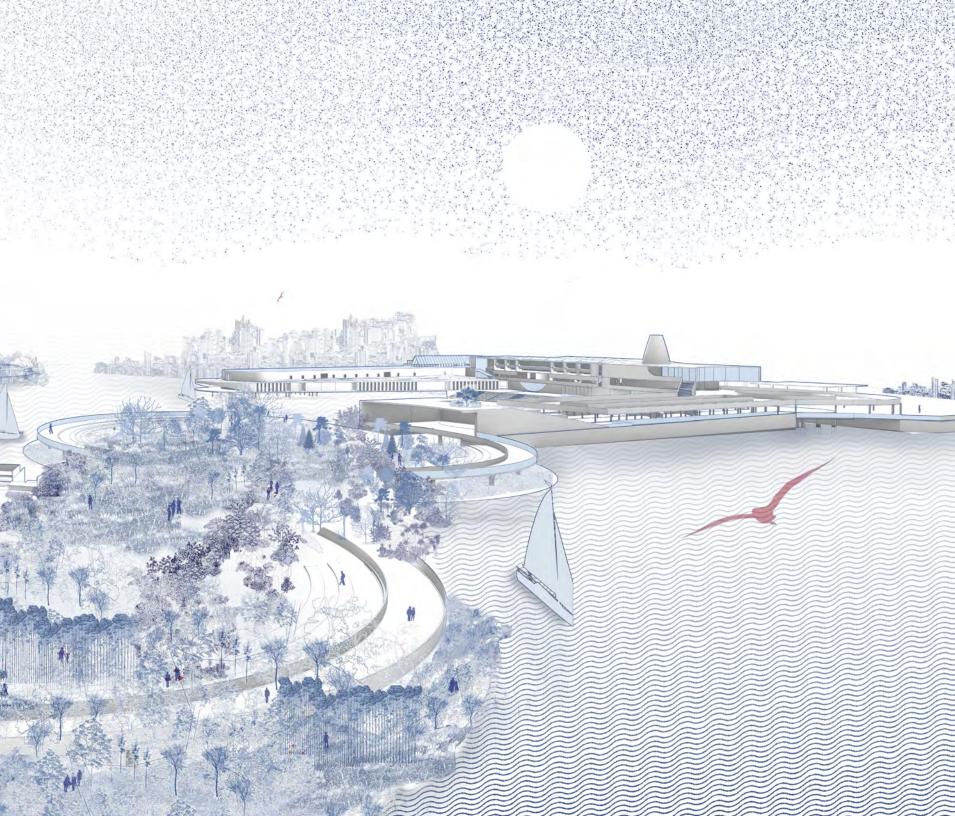




Hill of Remembrance

Positioned beneath the green stairs, a viewing platform allows citizens to witness people planting soil and seeds upon the hill of remembrance. This space fosters an expansive horizontal view, facilitating introspection and an escape from the urban milieu, offering a panorama of serene forests rather than a skyline crowded with towering skyscrapers. With the passage of time, as countless souls intertwine with the fertile soil and embrace the earth's embrace, a symphony of memorial islands emerges upon this vast ocean. These islands, born from the convergence of planned circles, evolve organically, reaching towards a more harmonious and natural shape, forever connected in their ethereal growth.







This proposal stands as an exemplary showcase, illustrating one of the potential approaches for this novel cemetery typology. The four constituent elements, along with their accompanying ritual processes, are adaptable and transferrable to diverse architectural settings and renovation projects.

List of Figures

134

Π

1.01: "The Elements of	ife." Envisioning Chemistry. https://www.envisioningchemistry.com/
the-elements-of-life.	

1.02: Behance. "Acres- Tree of Life." Behance. https://www.behance.net/gallery/18576103/ ACRES-Tree-Of-Life.

1.03: "Chinese Has Their Own Halloween- Chinese Summer Camp." 2019 Teens Chinese Summer Camp in China | RISH Mandarin Program, November 8, 2019. https://www.realinshanghai.com/ chinese-has-their-own-halloween/.

1.04: The index project. "Capsula Mundi: Organic Burial Pods." Photograph. The index project, 2015. https://theindexproject.org/award/nominees/984.

1.05: "Garments for the Grave." Photograph. Pia Interlandi Garments for the Grave Comments. Accessed December 11, 2022. http://www.piainterlandi.com/prototype/.

1.06: Cogley, Bridget. "Olson Kundig Unveils Recompose Facility for Composting Human Bodies." Photograph. Dezeen. November 20, 2019. https://www.dezeen.com/2019/11/20/ recompose-seattle-human-composting-olson-kundig/

1.07: Lee, Jae Rhim. Screenshot of "My Mushroom Burial Suit." Jae Rhim Lee: My mushroom burial suit | TED Talk. Accessed December 11, 2022. https://www.ted.com/talks/

1.08: Death Lab, "Anaerobic Bio-Conversion," GSAPP, http://deathlab.org/anaerobic-bio-coversion/

2.01: Wikipedia. 2022. "Woking Crematorium." Wikimedia Foundation. Last modified September 22, 2022. https://en.wikipedia.org/wiki/Woking_Crematorium.	2.10: Tadao Ando
	2.11: Shigeo Oga
2.02: Hamrén, Mattias. "Crematorium Baumschulenweg / Shultes Frank Architeckten." Photograph.	
ArchDaily. ArchDaily, November 10, 2020. https://www.archdaily.com/322464/	2.12-13: Samuel
crematorium-baumschulenweg-shultes-frank-architeckten.	
	2.14,16: Peter Zu
2.03: Marinescu, Ioana, and Erik Hugoson. "The New Crematorium, the Woodland Cemetery /	
Johan Celsing Arkitektkontor." Photograph. ArchDaily. ArchDaily, September 22, 2014. https://www.	2.15: Phaidon. "S
archdaily.com/547748/	agenda/architect
the-new-crematorium-the-woodland-cemetery-johan-celsing-arkitektkontor?ad_	
source=search&ad_medium=projects_tab.	2.17: Tianzhou Ya
2.04. Dans Anders Current (Commentations / Hansing Langer, "Dhate south Anthonis	archiposition.cor
2.04: Berg, Anders Sune. "Communal Crematorium / Henning Larsen." Photograph. ArchDaily. ArchDaily, May 29, 2015. https://www.archdaily.com/634054/	2 10 21. [#] The LL
communal-crematorium-henning-larsen-architects?ad_source=search&ad_medium=projects	2.18- 21: "The U November 3, 202
tab.	the-urban-death
tab.	the di ball-death
2.05: "Urban Death Infrastructure – GSAPP." DeathLAB. http://deathlab.org/	2.22, 23: Yuka Yo
urban-death-infrastructure/.	Drawing.The Tow
	lined-final-restin
2.06: Davoli, Mauro. "Crematory in Parma / Studio Zermani e Associati." Photograph. ArchDaily.	
ArchDaily, December 23, 2012. https://www.archdaily.com/308976/	2.24, 25: Sam Co
$crematory\-in-parma-studio\-zermani\-e\-associati\?ad_source\-search\&\;ad_medium\-projects_tab.$	https://samcoult
2.07: CreatAR Images. "The Satori Harbor / Wutopia Lab." Photograph. ArchDaily. ArchDaily,	2.26, 27: Song Do
December 23, 2020. https://www.archdaily.com/953765/the-satori-harbor-wutopia-lab.	News/detail/id/6
2.08: "Berlin Memorial to the Murdered Jews of Europe 2005- Eisenman Architects." Photograph.	2.28, 29: Angelo
EISENMAN ARCHITECTS. https://eisenmanarchitects.com/	memorial." Draw
Berlin-Memorial-to-the-Murdered-Jews-of-Europe-2005.	san-siro-coronav

2.09: Anders Sune Berg. "Fog assembly." Photograph. Olafur Eliasson. 2016, https://olafureliasson. net/archive/artwork/WEK110139/fog-assembly

2.30- 32: DeathLAB, "Constellation Park," GSAPP DeathLAB, 2021, http://deathlab.org/ constellation-park/

${\rm III}$

Ando. "The Hill of the Buddha." Sketch.Domus Magazine1006, April 13, 2016

Ogawa. "The Hill of the Buddha." Photograph.Domus Magazine1006, April 13, 2016

nuel Ludwig, Thomas Mayer. " Bruder Klaus Field Chapel / Peter Zumthor." Photograph.

ter Zumthor. " Bruder Klaus Field Chapel / Peter Zumthor." Sketch. ArchDaily.

on. "Sacred Stories- Bruder Klaus Field Chapel." Photograph. https://www.phaidon.com/ hitecture/articles/2015/february/04/sacred-stories-bruder-klaus-field-chapel/

ou Yang. "Senses and Narratives." Photograph. Position. March 17, 2020, https://www. n.com/items/2516a791ec

he Urban Death Project: Laying Our Loved Ones to Rest." Drawing. Kickstarter, 3, 2016. https://www.kickstarter.com/projects/546469190/ leath-project-laying-our-loved-ones-to-r.

ka Yoneda, "Vertical Cemetery is a Greenery Clad Final Resting Place for Mumbai," e Tower Info, Sptember 28,2010,https://inhabitat.com/vertical-cemetery-is-a-greenesting-place-for-mumbai/moksha-tower-vertical-cemetery-6/

m Coulton, "London Physic Gardens: A New Necropolis," Drawing. Sam Coulton, 2018, coulton.wixsite.com/sgcarch/copy-of-4th-year-p1

ng Dong, "Touching My Father." Video. RMCA, 1997-2011, http://www.rmcart.org/ /id/68.html

gelo Renna. "Angelo Renna proposes turning San Siro into tree-covered coronavirus Drawing. Dezeen, July, 2020, https://www.dezeen.com/2020/07/17/ onavirus-memorial-angelo-renna/ 3.01- 3: "Dead Space (Series)." 'Dead Space': Photographer captures Hong Kong's dense hillside cemeteries, CNN style, 2019, accessed 17th September, 2019, https://edition.cnn.com/style/article/hong-kong-cemetery-intl-hnk-scli/index.html.

3.04: Kin Cheung / AP, " The Dizzying Cityscape of Hong Kong." Photograph. The Atlantic. November
22, 2015, https://www.theatlantic.com/photo/2016/03/
the-dizzying-cityscape-of-hong-kong/472575/
3.05: Wikipedia, "Star Ferry Pier, Tsim Sha Tsui," Photograph. https://en.wikipedia.org/wiki/
Star Ferry_Pier, Tsim_Sha_Tsui.

3.06: The Estate of Lee Fook Chee. "Loved Then Abandoned." Photograph. Asia Society. December 5, 2022, https://asiasociety.org/past-exhibitions/16414

3.07, 8: Wikipedia, "Preserve the Old Star Ferry Pier." Photograph.

3.09: Alexandra Stevenson. "Star Ferry, 'Emblem of Hong Kong,' May Sail Into History After 142 Years." Photograph. The New York Times, April 20, 2022, https://cn.nytimes.com/china/20220420/ hong-kong-star-ferry/

3.10: Wikipedia, "Star Ferry Pier, Tsim Sha Tsui," Photograph. https://en.wikipedia.org/wiki/ Star_Ferry_Pier,_Tsim_Sha_Tsui.

Addison, James Thayer. "The Modern Chinese Cult of Ancestors." The Journal of Religion 4, no. 5 (1924): 492–503. http://www.jstor.org/stable/1195559.

Qinzhong Yang, "Lecture: Talking about Chinese Ancestor Worship,"Chinese National Library, November 25, 2017, http://www.nlc.cn/sjwhbb/sjjcjz/201711/t20171113_160759.htm.

Xue, Yifeng, Hezhong Tian, Jing Yan, Chengcheng Xiong, Tao Pan, Lei Nie, Xiaoqing Wu, et al. "Present and Future Emissions of Haps from Crematories in China." Atmospheric Environment 124 (2016): 28-36.

DeathLAB, "HUMAN BODY COMPOSITION-EARTHEN BURIAL," Columbia GSAPP DeathLAB, http:// deathlab.org/funerary-processes/

DeathLAB, "HUMAN BODY COMPOSITION-CREMATION," Columbia GSAPP DeathLAB, http:// deathlab.org/funerary-processes/

Envisioning Chemistry, "Elements of Life," Xinzhi Digital Media, 2019, https://www. envisioningchemistry.cn/elementsoflife.

Harrison, Robert Pogue. *The Dominion of the Dead*. University of Chicago Press, 2010.

Crinnion, Walter J. "The Cdc Fourth National Report on Human Exposure to Environmental Chemicals: What It Tells Us About Our Toxic Burden and How It Assists Environmental Medicine Physicians." Alternative medicine review 15, no. 2 (2010).

Caitlin Doughty, "Why You Should Spend Time With A Dead Body," End Well, Apr 22, 2020, https:// endwellproject.org/watch/caitlin-doughty-why-you-should-spend-time-with-a-dead-body/

Alan D. Wolfelt, Why Is the Funeral Ritual Important?, Center for Loss, Dec 16, 2016, https://www. centerforloss.com/2016/12/funeral-ritual-important/

Nicole Archer, "Funerals are expensive, broken and exploitative, They have to change," CNET, May 25, https://www.cnet.com/culture/features/ funerals-are-expensive-broken-exploitative-they-have-to-change/

The order of the good death, "Everthing you need to get started,"https://www. orderofthegooddeath.com/start-here/

Wojtkowiak, Joanna, Jonna Lind, and Geert E Smid. "Ritual in Therapy for Prolonged Grief: A Scoping Review of Ritual Elements in Evidence-Informed Grief Interventions." Frontiers in psychiatry 11 (2021): 623835.

Gire, James. "How Death Imitates Life: Cultural Influences on Conceptions of Death and Dying." Online Readings in Psychology and Culture 6, no. 2 (2014): 3.

Clayden, Andrew, and Katie Dixon. "Woodland Burial: Memorial Arboretum Versus Natural Native Woodland?". Mortality 12, no. 3 (2007): 240-60.

Ellen Newman, "11 Environmentally Friendly Burial Options," Talk Death, Jan 7, 2018, https://www. talkdeath.com/environmentally-friendly-burial-options/.

Katrina Spade. "When I die, recompose me." TED, Jun. 2017. https://www.ted.com/talks/ katrina_spade_when_i_die_recompose_me

Lee, Jaeryeong. "Dying with 'Infinity Mushrooms' – Mortuary Rituals, Mycoremediation and Multispecies Legacies." (2019).

Alexander Sullivan, "Disposal of human remains," Google Patents, Oct 5,2017, https://patents. google.com/patent/US20100213292A1/en.

Death Lab, "Anaerobic Bio-Conversion," GSAPP, http://deathlab.org/anaerobic-bio-coversion/ The Crenation Society, "History of modern cremation in the United Kingdom 1847-1974," https:// www.cremation.org.uk/history-of-cremation-in-the-united-kingdom.

Visschers, Jeroen, Laura Cramwinckel, and Kris Coenengrachts. Goodbye Architecture: The Architecture of Crematoria in Europe. Rotterdam: nai010 uitgevers, 2018.

Megan Sveiven, "Bruder Klaus Field Chapel / Peter Zumthor," Archdaily, Jan 27, 2011, https://www. archdaily.com/106352/bruder-klaus-field-chapel-peter-zumthor.

Hong Kong Census and Statistics Department, "Table 1A : Population by Sex and Age Group," https://www.censtatd.gov.hk/tc/web_table.html?id=1A.

Chermaine Lee, "Hong Kong's public space problem,"BBC News, September 1, 2020, https://www. bbc.com/worklife/article/20200831-hong-kong-public-space-problem-social-distance

Andrew Wood, "A tomb in Hong Kong is hard to find. Can the sea cemetery change the burial for peace?", BBC News, April 5, 2018, https://www.bbc.com/zhongwen/simp/chinese-news-43615642.

Yimou Lee, "Focus: Land shortage prompts sky-high priced cemeteries in Hong Kong," Reuters, June 5, 2014, https://www.reuters.com/article/hongkong-death-idCNKBS0EG0XK20140605.

post/279915.

Phaidon, "Sacred Stories- Bruder Klaus Field Chapel," https://www.phaidon.com/agenda/ architecture/articles/2015/february/04/sacred-stories-bruder-klaus-field-chapel/ Spade, Katrina M. "Of Dirt and Decomposition: Proposing a Place for the Urban Dead." (2013).

Yuka Yoneda, "Vertical Cemetery is a Greenery Clad Final Resting Place for Mumbai," The Tower Info, Sptember 28,2010,https://inhabitat.com/vertical-cemetery-is-a-green-lined-final-resting-placefor-mumbai/moksha-tower-vertical-cemetery-6/

Sam Coulton, "London Physic Gardens: A New Necropolis," SAM COULTON, 2018, https:// samcoulton.wixsite.com/sgcarch/copy-of-4th-year-p1

Dong, "Song Dong: Art as My Life," Youtube, https://www.youtube.com/ watch?v=l0J_ot7SkKU&ab_channel=MaDAsiaChannel

Tom Ravenscroft, "Angelo Renna proposes turning San Siro into tree-covered coronavirus memorial," Dezeen, July, 2020, https://www.dezeen.com/2020/07/17/ san-siro-coronavirus-memorial-angelo-renna/

DeathLAB, "Constellation Park," GSAPP DeathLAB, 2021, http://deathlab.org/constellation-park/

Hui Xu, "Cemetery estate World," Time WeeklyApril 2, 2021, https://www.time-weekly.com/

China Funeral Association, "Cosmic Funeral: The Future Trend of Carbon Neutrality in the Funeral Industry."Ministry of Civil Affairs of the People's Republic of China, Spetember 22,2022,https:// www.mca.gov.cn/article/wh/whbq/lsqm/whjz/202209/20220900043967.shtml.

Wikipedia, "Star Ferry Pier, Tsim Sha Tsui," https://en.wikipedia.org/wiki/ Star Ferry Pier, Tsim Sha Tsui.

Lee Fook Chee. "Loved Then Abandoned." Asia Society. December 5, 2022, https://asiasociety.org/ past-exhibitions/16414

VOC, "Demolition of Hong Kong's Star Ferry Pier sparks cultural heritage controversy," VOC, January 9, 2007, https://www.voachinese.com/a/a-21-w2007-01-09-voa35-63142737/1055413.html.

Alexandra Stevenson, "Star Ferry, 'Emblem of Hong Kong,' May Sail Into History After 142 Years," The New York Times, April 20, 2022, https://cn.nytimes.com/china/20220420/hong-kong-star-ferry/

Zeng, Chen, William Sweet, and Qian Cheng. "Ecological Citizenship and Green Burial in China." Journal of Agricultural and Environmental Ethics 29, no. 6 (2016): 985-1001.

Wolfelt, Alan D. "Why Is the Funeral Ritual Important?" Center for Loss & amp; Life Transition, December 16, 2016. https://www.centerforloss.com/2016/12/funeral-ritual-important/.



