

IPOH URBAN HERITAGE VILLAGE: CONSERVE AND REVITALISE KAMPUNG **KEPAYANG THROUGH AN ECO-VILLAGE APPROACH**

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ABSTRACT

This project is about conserving the Malay urban heritage village of Kampung Kepayang, Ipoh that being neglected and might loss its heritage elements that are very valuable which are heritage tombs of Kinta's ruler and Gunung Matsurat the oldest limestone cave in Ipoh. Other than that, this village is needed to be improved for the quality of life of the local people that live at the centre of urbanization. Therefore, the aim of this project is to conserve the historical elements and transforming the village into a sustainable urban heritage village for the local community benefits. The Malay characteristic of this village will be enhanced and preserve in order to ensure the heritage will flourish and not be affected by the new development.

Keywords: Urban village, Urban heritage, Malay identity, Conservation, Eco-village Corresponding author: norhanisdivana@iium.edu.mv

INTRODUCTION

The purpose of this project is to preserve the settlement's identity and heritage values while improving the quality of life of local people in an urban environment through eco-village approach. This is to ensure that the Malay urban heritage village will be preserved and can be one of the tourist attractions in Ipoh City where people can visit and acknowledge the heritage village. Therefore this village will not be neglected and might be one of the contributing factors for Ipoh to be declared as a UNESCO site. The cultural and natural heritage of this village will be preserved and conserved for future generations. The objectives of this project are as follows:

1. MALAY IDENTITY

To retain the Malay's identity and heritage values in preserving and improving the local distinctiveness of Kampung Kepayang.

2. HERITAGE VALUES

To conserve and restore the tangible and intangible heritage values of Kampung Kepayang.

3. QUALITY OF LIFE

To rehabilitate the natural setting of the village for a healthy and livable community.

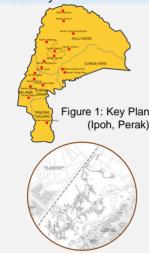


Figure 2: Location Plan (Kampung Kepayang, Kinta, (hogl

Issues Heritage values

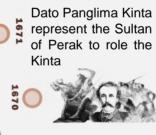
Neglected urban heritage village that is rich with heritage elements of an early Malay settlement and being pressured by rapid urbanisation



Tun Kelalang opened the village, origin name from Kepayang tree



The involvement of certain Kinta's rulers with assassination of J.W.W Birch







Goal and approach

Conservation cultural and natural heritage

A cultural village that preserves the heritage values and provides sustainable living for local people.

Revitalize Kg Kepayang into a sustainable village



Heritage tombs

Kinta river

Settlement

area

LITERATURE REVIEW

Conservation means the act of conserve and urban conservation means concern with built environment and architectural. There are six importance of conservation which are scientific and **educational**, **environmental**, **revenue generation**, **nationalism**, nostalgia and lastly for functional use.

Eco-village means community that seeks to live in a healthy environment while **eco-village approach** means achieving sustainability, design that are enabling and sustainable (ecological design)



Figure 4: Eco-village framework

Case studies

There are four total precedent studies to assist and adapt to this project. The first precedent study is Xiasha village located in Shenzen City, Shanghai. It is a neglected urban heritage village that is being transformed into an urban tourism icon.

The second precedent study is Morten village at Malacca. Morten village is being transformed into a tourism icon as well. The third precedent study is Khuan Niang ecovillage at Songkhla, Thailand. The precedent study highlighted how the people transformed their village into an eco-village that sustain the well-being of the community in terms of economic, social, cultural and environmental aspects.

Lastly, Felda Taib Andak, Johor. It is the first low-carbon village(eco-village) in Malaysia to aim at reducing carbon footprint in their village by adopting sustainable ways in reducing carbon such as encouraging cycling, recycling, and others.

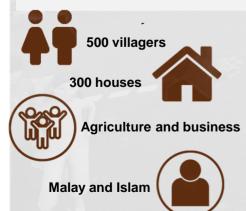
METHOD/ PROCEDURE

For the data collection method in this project, two methods are used in order to collect information which are observation checklist and document analysis from secondary data. The observation checklist is an inventory process at the site to gain more information regarding the site's potentials and constraints and the data will be analyzed and synthesized to produce alternatives or solutions for the site, while document analysis is to provide additional supporting information of the site.

Site inventory and analysis

1. Community profile

A total of 500 villagers living at Kampung Kepayang and there are 300 houses. Certain communities are doing an agriculture activities and small business. Majority of the community are Malay and Islam.



2. Site context

There are six types of land uses at Kinta District which are recreational, hydrology, industrial, transportation, residential and agriculture (Figure 3)



Figure 5: Landuses map

3. Site appraisal

Figure 4: Heritage tombs of Kinta's

Heritage resources diversity

There are three heritage resources inside Kampung Kepayang which are heritage tombs, Malay traditional houses and landscape settings.



Figure 6: Malay traditional houses

4. Microclimate

Microclimate details at Kampung Kepayang



5. Vegetation

There are varieties of vegetation species at Kampung Kepayang with various respective functions and uses.



Figure 6: Common plant species

6. Wildlife

Three wildlife settings were identified during the inventory process which are natural, semi-natural, and urban wildlife settings shown in Figure 7.



Figure 7: Wildlife settings

6. Topography and Hydrology

For topography attribute, landform profile is shown to present the landform of Kampung Kepayang at certain areas. And for hydrology, Kinta river that located beside Kampung Kepayang is identified as polluted (class III).



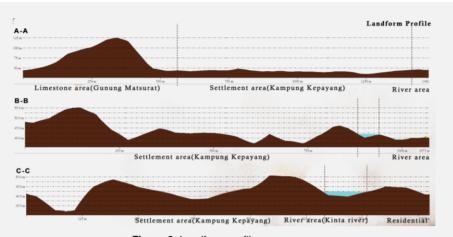


Figure 8: Landform profile

7. Circulation

Three types of circulation at Kampung Kepayang which are primary and secondary road.

Primary road



Cross analysis

All attributes will be crossed with another attribute to retrieve detailed analysis

	LAND USE AND SITE CONTEXT	HERITAGE RESOURCES	MICROCLIMATE, VEGETATION AND WILDLIFE	TOPOGRAPHY AND HYDROLOGY	CIRCULATION AND VISUAL SENSE	FACILITIES AND SAFETY SECURITY	COMMUNITY DEMOGRAPHY
LAND USE AND SITE CONTEXT		Lack of conservation at Kampung Kepayang attract developers to develop and the heritage values might be dissapear,	Urban pollution from the surrounding disturb the biodiversity ecosystem.	Future and current development destroyed the current landform and exposed to the eroision and landslide.	Connecttivity of the circulation to the whole area in the city and provide visual scenery of the urbanscape and naturescape.	More facilities will be provided in order to meet the demand of the users at the city.	other development increase the urban
HERITAGE RESOURCES	The demand of the new development from the surrounding the village will destruct the natural heritage and slowly vanish the Malay identity.		Kepayang tree needed to be replanted in order to bring back the identity of the village which is Kampung Kepayang.	Gunung Matsurat might exposed to the ersoion and collapsed because of the illegal crystal mining activities.	The roads name should be changed into a identical name that reflects the heritage in order to embrace and increase the heritage values.	More facilities should be provided in order to secure the cultural and natural heritage at Kampung kepayang.	The lack of awareness and participation from the community to conserve and protect the heritage values.
MICROCLIMATE VEGETATION AND WILDLIFE	domesti and organic	area play a vital role in biodiversity ecosystem in order		Water ecosystem that is polluted decrease the water quality index for the irrigation and consumption purposes.	Unclear entrance to Kampung Kepayang will decrease the attraction to the recerational area.	Lack of maintenance to the bushes area and open space will attract hazardous wildlife to inhabit.	pollution cause the community's quality
TOPOGRAPHY AND HYDROLOGY	Kampung Kepayang is exposed to new development because of the strategic location in the centre of Ipoh.	Kinta river is potential for recreational area in order to add attraction elements for visitors to visit the heritage village.	Cement dust from the industrial area contribute to the slow growth for the vegetation and decrease air quality index for wildlife.		Ambiance scenery of the Kinta river and natural karst landscape to the visitors.	have a sustainable water treatment	Lack of water consumption from the natural resources.
CIRCULATION AND VISUAL SENSE	from the Gunung Lang area that located beside Kampung Kepayang	Heritage tombs and the surrounding area not being maintained and give a bad view to the vistors	Scenic view of the rural setting at Kampung Kepayang and its vicinity attract the vistors to visit.	Not clear entrance to the Gunung Matsurat degrade the values of attraction elements.		Primary road at Kampung Kepayang is potential for heritage spine road and increase the natural access control at the village.	Air and water pollution cause the community's quality of life become decrease.
FACILITIES AND SAFETY SECURITY	Facilities such as restaurant, cafe should be increased for natural surveillance at Kampung Kepayang.	the Kampung Kepayang in order to increase research	Increase street 1 i g h t i n g , maintenance to the bushes area in order to prevent crime activities and hazardous wildlife.	No security elements at the Gunung Matsurat exposed to the tresspasser to do illegal activities that will disturb the nature elements.	Lack of drainage maintenance contribute to the stagnant, clogged and dirty drainage that gives an unpleasant view.		More faciloties to be provided in order to meet the community demand.
COMMUNITY DEMOGRAPHY		still remain the traditiona houses structure to maintain the	Existing organic gardening may be polluted by the air pollution and impact the community health.	Stagnant waterflow and clogged drainage will cause dengue disease to the community.	view for the community to enjoy	Lack of safety factors at the village will attract crime activities and disturb the activities of the community.	

SITE SYNTHESIS

The last stage of data collection method where all the inventory and analysis data will be synthesized to produce and come out with a solution or proposed design (Figure 9).

- 1. Lack of conservation to the Malay traditional houses
- Abandoned Malay traditional houses
- Certain Malay traditional houses can be found at Kampung Kepayang.

Solution

Implement Malay landscape

Existing area Abandoned Malay traditional house

Malay traditional house







Figure 9: Site synthesis

Roof standardization

2. Lack of conservation to the heritage tombs

- The tombs will not be recognized if no conservation been made to the tombs.
- The cultural heritage of Kampung Kepayang will decrease.

Solution

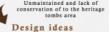
Maintain and enhance the tombs area by built a fence or signage around the heritage tombs.

A memorial signage to show the name of the Kinta's ruler tombs.

Act enforcement to protect the heritage tombs by the local authorities.

Existing area







3. Potential area for heritage centre

- Abandoned mosque at Kampung Kepayang.
 (Old Masjid Al-Khairiah
- Potential for heritage centre that display heritage elements in Kampung Kepayang and reserach area.

Solution

Transform into a heritage centre/gallery/museum to display the heritage elements

Abandoned mosuge which is old mosque

Design ideas

Malay traditional house style for

DESIGN DEVELOPMENT

The aim of the project is to transform Kampung Kepayang as a sustainable urban heritage village that retains its historical elements and consists of a healthy environment for a healthy community

Design concept

The design concept of this project is 'Oasis Treasure' which means a pleasant place that keeps wonderful treasures to be explored. The word oasis represents village. It is a metaphor that indicates village that has contrasting surroundings with an urban development. Treasure represents the heritage elements inside Kepayang village that are to be conserved and preserved.

Functional diagrams

Conservation of Heritage

Heritage nodes

Objectives

conserve improve the historical area that will retain the Malay's identity and for public attraction

To cater the environmental issues water air and pollution for a healthy environment

To develop the potential area for recreational activities that sustain the well-being of a local community

DESIGN PROCESS Space programming

Eight main spaces proposed at Kepayang village.

- 01. Laman Tiba
- 02. Kepayang Riverine
- 03. Medan Warisan
- 04. Kepayang Lane
- 05. Laman Kepayang
- 06. Green Centre
- 07. Vista Retreat
- 08. Teratak Kepayang

Design strategies

Three strategies proposed and each strategies reflect each objectives.







HERITAGE ENVIRONMENT **IDENTITY REHABILITATION SUSTAINABILITY**

- gallery Increase green
- Heritage Green technology Community park and farm
- Heritage trail

Figure 10 shows the five (5) functional diagrams that will assists in developing

Green technology area

Sustainable village

environmental

Environment rehabilitation

a design on the next stage which is preliminary plan.

N.T.S

n Heritage

exploration O Cultural

appreciation activities Recreational activities

Activities

COMMUNITY

Accessibility connectivity

Accessibility

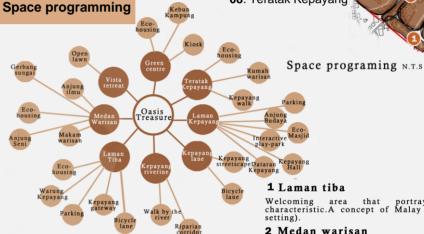
Accessible
by all users
Connectivity
between

area

Community sustainability

Recreational area

Recreational activities for healthy community
 Encourage engagement
 Accesible by all



1 Laman tiba

Welcoming area that portray Malay characteristic. A concept of Malay landscape

2 Medan warisan

Portray Malay concept with a Malay landscape

3 Kepayang riverine

Soothing ambiance for users to experience the nature retreat. Fills with malay elements such as 'jeti', 'pelita', 'pangkin' and 'sampan'.

4 Kepayang lane

An oasis streetscape combine with Malay concept. A memory lane

5 Laman Kepayang

Interactive and fun area. Users will experience the Malay culture of the traditional games, dances and others.

6 Green Centre Modern farming concept. Users can experience and learn about the farming activities.

7 Vista Retreat

Experience of vista retreat for users to see the natural heritage of Gunung Matsurat. 8 Teratak Kepayang

Users can enjoy to see the Malay traditional houses and have a walk around the village,

Laman Kepayang

Green Centre

Figure 10: Functional diagrams

Reduce

Design alternatives

N.T.S

History of

History of Kampung
 Kepayang
 Heritage tombs Malay heritage (Traditional houses)

All the functional diagrams will be layered and produced three types of alternatives plan before proceeding to the preliminary plan.



Figure 11: Design alternatives

Schematic plan

Conceptual plan

Conceptual plan

Laman Tiba

An entrance place to welcome the visitors outside Kepayang village as well as an exit

Kepayang Lane

A street of memory to show the historical values of Kampung Kepayang and a primary

Medan Warisan

A place of heritage centre to govern the heritage of Kampung Kepayang and for attraction purpose. It is also a place of heritage tombs

Kepayang Riverine

A river walk of Sungai Kinta beside Kepayang village for recreational purpose.

Nodes

Pedestri

A farming area for community as well as

leisure purpose.

visitors to experience farming activities.

recreational area for community

gathering and engagement as well as

Vista Retreat

Vista towards Gunung Matsurat a natural heritage which is one of the oldest Aimestone cave that have a historical charcoal drawing inside the cave.

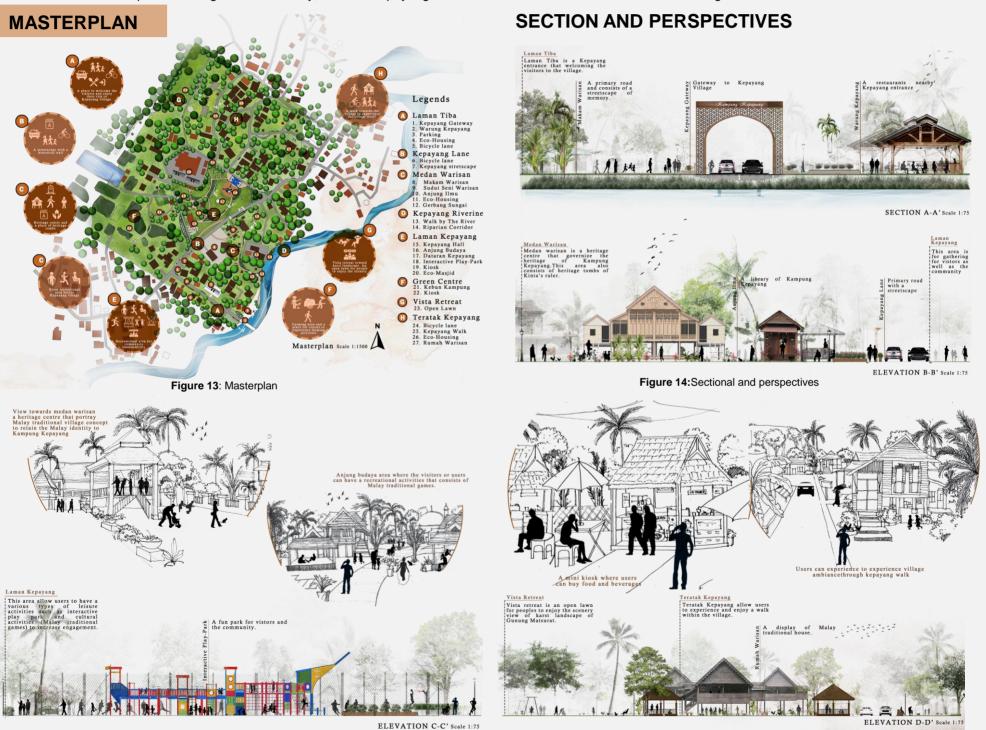
Teratak Kepayang

NKepayang heritage trail. This a place for visitors to experience a walk inside the illage and to see a traditional house.

Figure 12: Design process

Finalised preliminary masterplan is shown in Figure 9. It consists of eight main spaces with a total of 27 sub-spaces. The first space is Laman Tiba the entrance or gateway to the Kepayang village, there will be a restaurant, eco-housing, parking, and others. The second space is Kepayang lane, it is a primary road and a streetscape of memory. The third space is Medan Warisan, where the heritage centre is located. Medan Warisan allows users to explore, experience heritage activities inside Kepayang village. The fourth space is Kepayang riverine, a water recreational space for water recreational activities.

The fifth space is Laman Kepayang, it is an open space for recreational activities such as interactive play-park and laman budaya which allow users to experience Malay traditional games such as *ting-ting* and *congkak*. Other than that, it has a kiosk, community hall, and others. The fifth space is Green Centre that allows users experience farming activities handled by the community itself. The sixth space is Vista Retreat an open lawn area to enjoy leisure activities while having a view towards karst landscape of Gunung Matsurat. Lastly, Teratak Kepayang that allows users to have a walk around the village.





DETAIL DEVELOPMENT PLAN

'MEDAN WARISAN KHAZANAH KAMPUNG KEPAYANG'

Kampung Kepayang is an urban heritage village in Ipoh City where the majority of the community is of Malay ethnicity. The place is rich with a heritage value that has been overlooked by the government.

Inside Kampung Kepayang, Medan Warisan area has been proposed as a cultural heritage center in order to govern and protect the heritage values. Medan Warisan provided various cultural heritage activities for users to explore the culture while the issues on the heritage tombs are not being properly preserved and there is an abandoned space (mosque) that leads to a negative view.

DESIGN CONCEPT

En Route 'In journey to memories

A memories to be kept and a remembrance of memories (nostalgia of past life) Implement traditional concept and a modern design.

SPACE PROGRAMMI NG

Figure 15 shows the space programming for eight main sub To develop interactive areas for the area and each space have its community sustainability. own functions and activities

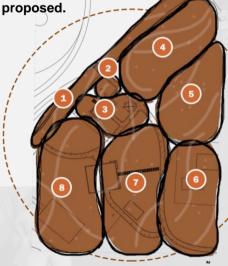


Figure 15: Space programming

AIM

Sustaining Medan Warisan area as a cultural heritage centre by retaining the heritage values and Malay identity for public attraction

OBJECTIVES

To conserve and enhance the historical elements especially the heritage tombs area

To implement the Malay landscape elements in order to extend the longevity of Malay cultural heritage while educating the people.

spaces inside Medan Warisan community to engage and improve

Space description

First space is Kepayang Lane for transportation and pedestrian access it consists of memory streetscape design.

Second space is an entrance to Medan Warisan with a ticket booth. A clothes rent booth also provided for users to rent Malay traditional clothes such as sampin, kain pelikat and batik.

Third space is Laman Tamu area and it consists of Malay traditional house with landscape setting, instagrammable area, night cinema called 'wayang pacak' and traditional games area.

Forth space is Anjung Ilmu with an indoor and outdoor natural setting library.

DESIGN STRATEGIES

Heritage Idenitty

Implementing Malay architecture landscape. Focusing on Perak's heritage identity (Rumah Kutai) and focusing on culture appreciation activities (games, music, art and craft, clothing etc.

Conservation

Conserve the heritage tombs of Kinta's rulers and retain the culture identity while educating people

Community sustainability

Enhancing and providing recreational areas for community and educating about cultural heritage preservations. Involve the community as well.



03

Safety Security

Improve the safety security of the areas and protect heritage through CPTED (Natural access control and natural surveillance)

Fifth space is Anjung Budaya where the area will have cultural activities such as art and craft and a traditional games area.

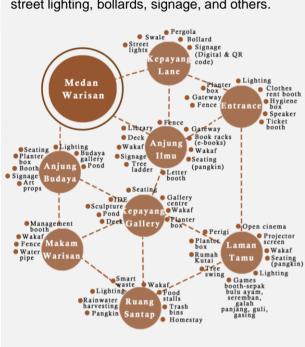
Sixth space is Ruang Santap & Rehat. This space have traditional stall to demonstrate and sell traditional cuisine of Perak such as 'rendang tok' the famous one in Perak. Other than that, there will be a traditional homestay nearby to provide opportunities for people to experience daily life in a village and learn Malay culture.

Seventh space is Kepayang Gallery for displaying and providing information regarding Kampung Kepayang heritage.

Last space is Makam Warisan as designated heritage tombs area that consist of heritage tombs of Kinta's rulers.

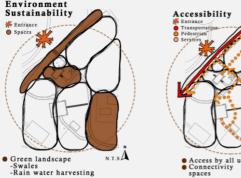
SPACE ELEMENTS

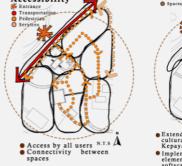
Each consists of various space For design elements. example, inside Kepayang Lane there will be a pergola, street lighting, bollards, signage, and others.



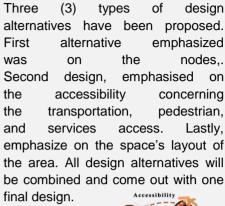
FUNTIONAL DIAGRAMS

There are totaled of 6 different functional diagrams for Medan Warisan area.



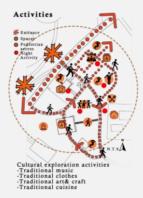


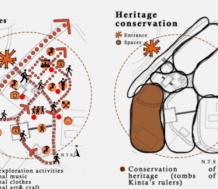


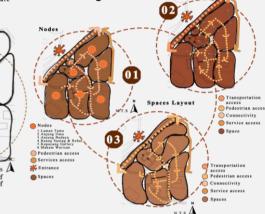


DESIGN ALTERNATIVES



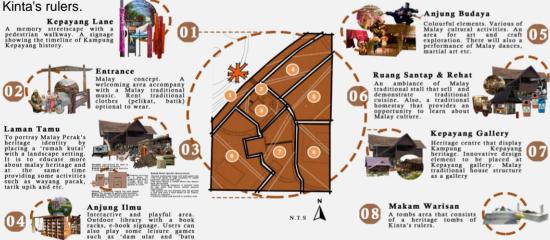






CONCEPTUAL PLAN

Each space has its own concept that has been emphasized. First Kepayang Lane, the concept is a memory streetscape with pedestrian and transportation access. Second is an entrance, a welcoming landscape accompanied by Malay traditional music. Third is Laman Tamu, a Malay traditional house (rumah Kutai) to portray Malay Perak's heritage identity and its landscape setting. Fourth is Anjung Ilmu, an indoor library and outdoor setting library. Fifth is Anjung Budaya with colorful art elements and various cultural exploration activities. Sixth is, Ruang Santap & Rehat will have an ambiance of the traditional stall. Seventh is Kepayang Gallery, a heritage center that governs the heritage of Kampung Kepayang. Lastly, Makam Warisan is a tombs area that consists of heritage tombs of



PLANTING CONCEPT



SCHEMATIC DIAGRAM

A schematic diagram showing the 8 sub spaces inside Medan Warisan and its function.



DETAIL DEVELOPMENT PLAN OF MEDAN WARISAN

Medan Warisan that consists of eight (8) subspaces. The first space provides pedestrian access inside Kampung Kepayang to go to Medan Warisan which is Kepayang Lane area, and signage showing the historical timeline of Kampung Kepayang will be displayed along the route. Second the entrance, users will enter the area accompanied with Malay traditional music to welcome visitors. Next, the third space is Laman Tamu area, a display of rumah kutai and Malay landscape. Cultural activities such traditional games open as called "wayang pacak" during night on every weekend.

Fourth is **Anjung Ilmu**, an indoor and outdoor library setting to portray Malay learning environment back then. There will be a physical and digital book by scanning a QR code to access the books. Fifth is, Anjung Budaya, a cultural activities area. Various activities such as 'traditional dance performance', 'batik art', and carving at the booth provided. Sixth is, Ruang Santap dan Rehat, a traditional homestay and food stall. The homestay is to provide an experience of Malay culture in a village.



A traditional stall area at Ruang and Santap area. Selling and cooking demonstration of traditional Malay cuisine especially 'rendang tok'.

> A-Kepayang gallery centre to governs the heritage inside Kampung Kepayang and consists of innovative design element.

KEPAYANG GALLERY

A natural setting outdoor library that consists of physical and digital book. It is an area for users to retrieve various information regarding
-----Malay literature etc.

ANJUNG ILMU

Various cultural activities

LAMAN TAMU

are provided at Anjung Budaya for users to experience and learn such as batik art, carving, traditional dances and etc.

An open cinema called 'wayang pacak' during every weekend on night for the community to gather and watch movies /documentary together to increase social bonding.

KEPAYANG GALLERY

Kepayang gallery inside Medan Warisan area. There will be a heritage display regarding Kampung Kepayang ar historical information at the gallery for people to use and visit

SECTION AND ELEVATION

Section A-A' showing the area of Laman Tamu and the activities inside the area, and then second space is Kepayang Lane a pedestrian and transportation access route



SECTION A-A' SCALE 1:100

Elevation B-B' showing the area of an entrance and the second space is Anjung Ilmu an indoor and natural setting outdoor library.



ELEVATION B-B' SCALE 1:10

Elevation C-C' showing Anjung Budaya area and second space of Ruang Santap dan Rehat showing the homestay and traditional food stall area.



ELEVATION C-C' SCALE 1:100

Elevation D-D' showing kepayang gallery area and makam warisan area.



Figure 17: Section and elevation

Planting palette HARDSCAPE PLAN Hardscape pallete SOFTSCAPE PLAN **Trees** To show the use of hardscape at Medan Warisan area Perfomance stage Artocarpus heterophyllus Averhoa Singapore graveyard Tree diameter- 75mm Tree height- 2m Shrubs **Palms** Cyrtotachys renda Bougainvillea Cymbopogo Begonia Red begonia



INNOVATIVE DESIGN ELEMENT

Proposed design is an innovative gazebo named Wakaf Kepayang. Complement with an installation of screen projector to provide a multipurpose function to the users as well as *rumah Kutai* features to enhance the gazebo. The gazebo can be used as a seating area and also a mini cinema to watch documentary regarding heritage of Kampung Kepayang and Ipoh.. The aim of this design is to represent the uniqueness of Malay hardscape element which is 'wakaf' and the design have been implement with a technology to suit with current modern design.

occupy more than

4 users.



Design elements

Screen projector to display documentary of Kampung Kepayang and Ipoh city heritage.

Screen projector



Aesthetic features of rumah Kutai being implemented at wakaf kepayang to portray Perak's Malay heritage bamboo matting (kelarai)

Elevated seating An elevated seating that can

Spectator inside wakaf kepayang

CCTV (Closed-Circuit Television Camera)

For safety security and crime or vandalism prevention.



Electric roller shutter

Shrub diameter- 15mm Shrub height- 300mm

Installation of electric roller shutter to block the light from entering the gazebo structure.



Projector and screen

Bamboo matting (kelarai bertam) to allow natural ventilation and

identity fascia wood and



camera Allow natural ventilation Maximum wind circulation from below, middle, and upper level

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