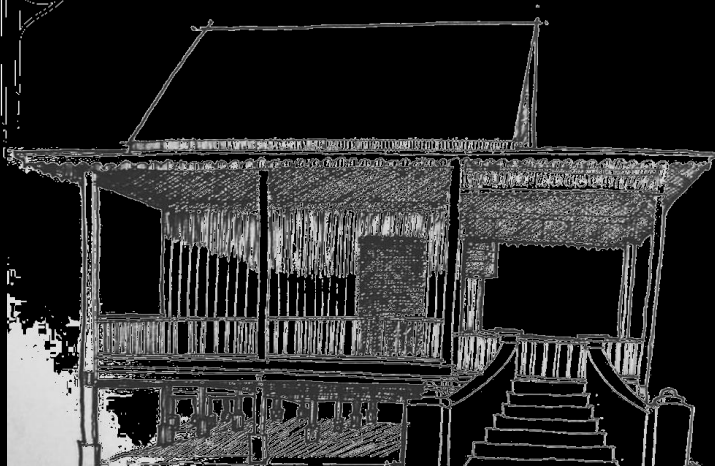


Serambi Warisan 2018

Dewan CREaTE, Alor Gajah, Melaka

19 – 20 September 2018



NORA LIZA BINTI MOHD KHALID

. Arkitek Kanan J48 . Unit Konservasi, Bah. Kepakaran Seni Bina .

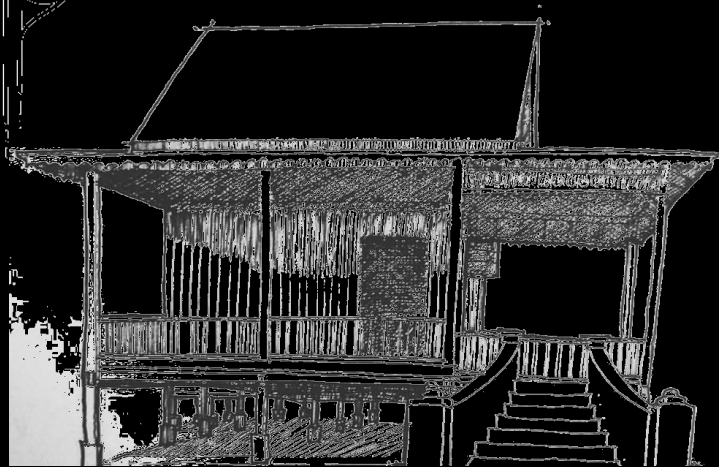
. Cawangan Arkitek, IP JKR Malaysia .

. MSc Conservation & Heritage Management, UiTM . B.Arch(Hons) UiTM .

. Registered Conservator . ICOMOS .



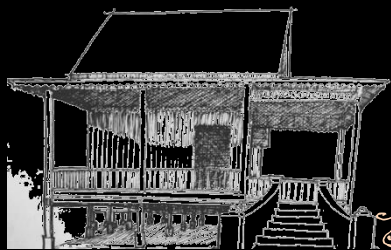
Warisan Kita...



*"Our PAST that been preserved for the PRESENT and will be inherited
for the FUTURE generations"*

S.N Harun (2011)

Secret Recipe To Building Conservation



Serambi Warisan 2018 - "Warisan Kita"

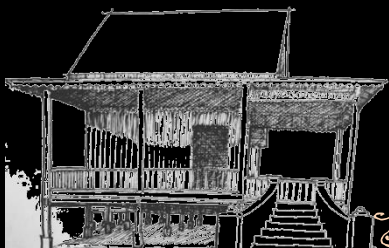
Secret Recipe®

Secret Recipe®



THE INGREDIENTS...

- What is BUILDING CONSERVATION?
- Why conserve?
- Basic Principles
- Along the Process...
- Good Practice
- Conclusion









What is CONSERVATION?



DEFINITIONS

NATIONAL HERITAGE ACT 2005 (ACT 645)

'includes preservation, restoration, reconstruction, rehabilitation and adaptation or any combination'

Preservation



Restoration



Rehabilitation



Adaptation



Reconstruction



Pemeliharaan

*Maintain original condition,
prevent dilapidation*

Pembaikpulihan

*Bring back the authenticity,
reinstate/revitalise the original.
-removing latter work
- Replace the missing*

Pemulihan

*Return to condition of usability
through repair or alteration,
Allow efficient contemporary use,
while maintaining authenticity*

Penyesuaian

*Involve change of function and
usage, but preserving the form &
characteristic of original*

Pembinaan semula

*Rebuilding by new construction
lost or damaged part beyond
repair (fully or partial)*

DEFINITIONS

BURRA CHARTER (2013)

*'All the processes of looking after a **place** so as to retain its **cultural significance**'*



Source:
<http://penangshophouse.com.my>

DEFINITIONS

BURRA CHARTER (2013)

place

'Site, area, land, landscape, building or other work, group of buildings and may include components, contents, spaces and views'

cultural significance

'aesthetic, historic, scientific, social or spiritual value for past, present or future generations. Embodied in the place itself, its fabric, setting, use, associations, meaning, records, related places and related objects'



Source:
<http://bettyandlingshing.blogspot.my>



Source: <http://4.bp.blogspot.com>



BUILDING CONSERVATION is a technical activity taken to prolong the life of heritage buildings.



Why conserve?



antiquities?

Historical evidence?



Old building?

Heritage building?

Old fashion?



world heritage site?



PERCEPTION

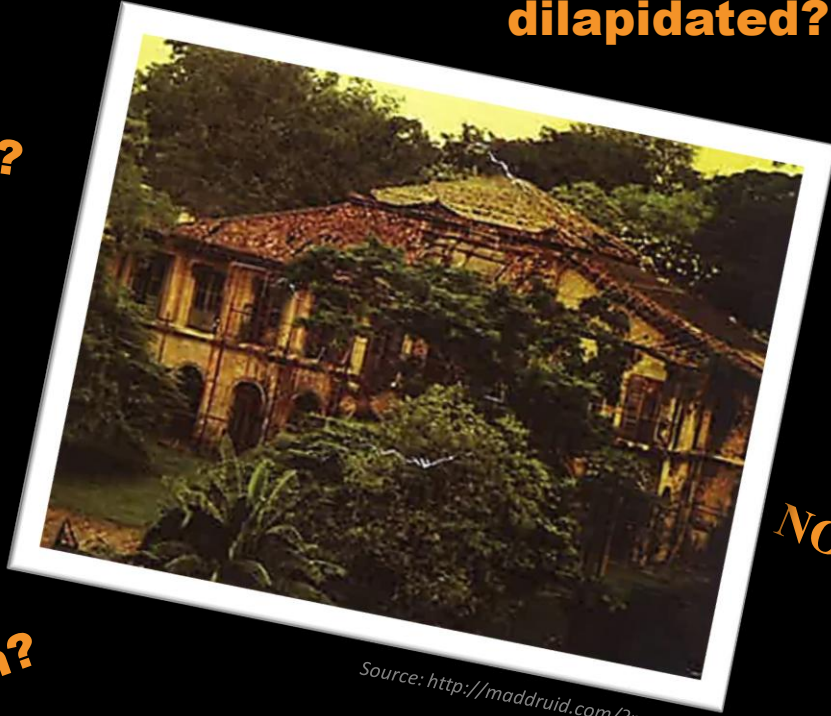
dilapidated?

DEMOLISH?

High cost?

ADAPTIVE REUSE?

NO COMMERCIAL VALUE?



Old fashion?

Source: <http://maddruid.com/?p=1009>





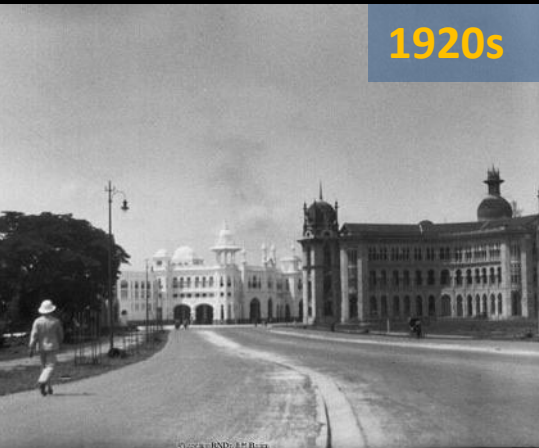
Source: <https://www.tripadvisor.com.my>



VALUE

- Historical value
- Cultural value
- Value to the owner
- Community value
- Environmental value
- Economic value





1920s



1950s



1960s

Source: <https://anakwilayah.wordpress.com>

***“A town without heritage building
is like a man without memory”***

Parfect, M. and Power, G., (2014)



2000s

Source: <http://www.backpackingmalaysia.com>

MISCONCEPTION...



CONSERVATION sometimes can be portrayed wrongly as being about *resisting change* and *focusing on the past*.
CONSERVATION is not about resisting change, but *about positive management of change*



Basic Principles



The Athens Charter (1931)

Venice Charter (1964)

UNESCO Word Heritage Convention (1972)

Nara Document on Authenticity (1994)

Burra Charter (1999)




Hoi An Protocols (2003)

China Principles (2004)

Bangkok Charter


Indonesian Charter



“Early Penang” Style 1790s-1850s	“Southern Chinese” Eclectic Style 1840s-1900s	“Early Straits” Eclectic Style 1890s-1910s	“Late Straits” Eclectic Style 1910s-1930s	Art Deco Style 1930s-1960s	Early Modern Style 1950s-1970s
					

Straits Eclectic Substyles

Source: <http://penangshophouse.com.my>



Terra cotta U-shaped roof tiles

Wooden louvred shutter windows

Low wall with Chinese ceramic air vents

Butterfly-shaped Chinese air vents

Timber windows with iron bars

Carved timber ventilated door

Brick wall

Terracotta floor tiles

Granite edge block & granite step

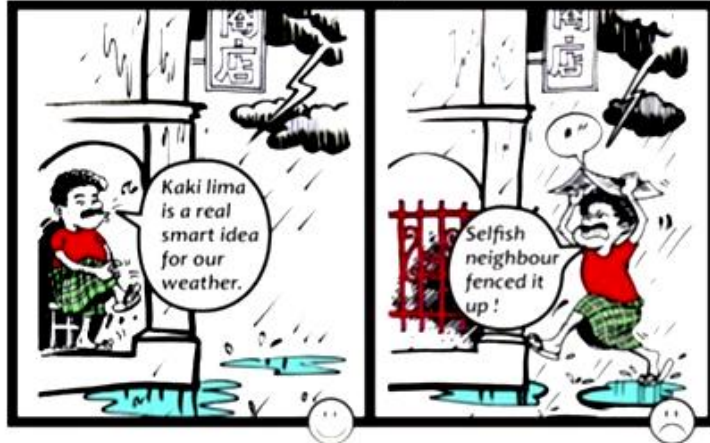
Photo: Tan Yew Woon Culture & Research Studio

Respect the *history and intrinsic quality* of the property

Louvre Shutters



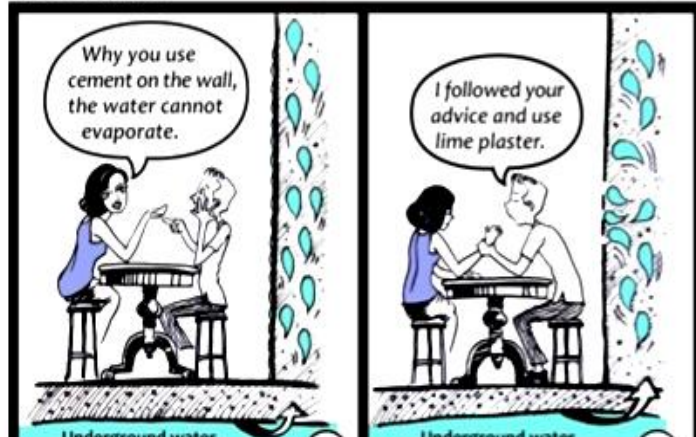
Five Foot Way (kaki lima)



Air Well



Lime Walls





*Prioritise **original** form, design, materials, craftsmanship*



Source: <http://butterworthguide.com.my/>

*Prioritise **original** form, design, materials, craftsmanship*



Sympathy in interpretation and use

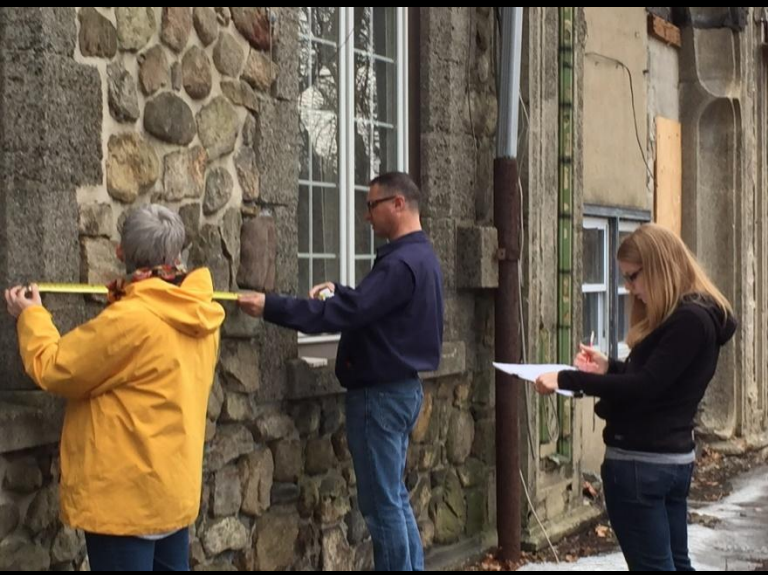


Figure 6.15: The carvings in the original colour and actual position of the *Serambi's* beam (facing inside) (left). The carvings were painted in timber colour and in the wrong position (facing outside) (right)

Source: Negeri Sembilan Museum (2015).

Source: Sulaiman (2017)



Research – Restoring the image

Chronology of change

1811	Open terraced garden house..	
1818	Verandahs & central jack roof ..	
1850	Pitch roof, side extensions added..	

Suffolk House

Careful and comprehensive *investigations and documentations* before intervention
- all conservation works should be based on sufficient historical research



Minimum intervention, maximum preservation

6) Painting

To enhance the kelai panel, a suitable coating material can be used. This includes oil-based paint. It's not only beauty the panel, it also acts as a protector for material surface from external threat.



7) Installing

After the painting process is done, the kelai panel is ready to be installed to the building structure according to the accurate frame size.



Narisan

'Patah tak tumbuh hilang tak berganti'

IHSANIAH ISKANDARIAH MOSQUE, KG KUALA DAL, PERAK



before conservation



after conservation

SUMMARY

In the effort to conserve kelai panel, the techniques and methods used are crucial in order to preserve the authenticity of a heritage building. It is also proven that bamboo is a durable material as it has long been used in of Kutai houses and palaces of Malay sultanate.



METHODS AND TECHNIQUES OF HERITAGE BUILDING CONSERVATION

KELARAI



APPLYING LIME PUTTY

For the purpose of construction, mortar and lime plaster is produced by mixing hydrated lime (lime putty) with sand according to the appropriate ratio.

The application of lime putty usually involves the mixing of pozzolan (clay, brick dust or volcanic ash) that will enable lime mortar to set rapidly, thus increasing the durability of mortar.

It is an added advantage that pozzolan contains silicates compound naturally.



Clay dust



Brick dust



Volcanic ash



The mixture of mortar and lime plaster is now ready to use.

The structure of which uses lime plaster protected from sunlight to from quickly called.

SUMMARY

The use of lime plaster in conserve to preserve the authenticity. Lime plaster has been proven material as can be found in Rome, Italy that is still in achieved more than hundred



METHODS AND TECHNIQUES OF HERITAGE BUILDING CONSERVATION

LIME PLASTER

Narisan

'Patah tak tumbuh hilang tak berganti'



Form Project: **BORANG REKODAN TATACARA KERJA**
KADANGAN KUTAI-KUTAI KERAJATAN (KONSERVASI) DAN
SELANGOR DARUL EHSAN

NO. REKODAN: **1171/2018**
TARIKH: **11/11/2018**
NAMA KERJA: **REKODAN KUTAI-KUTAI KERAJATAN (KONSERVASI) DAN SELANGOR DARUL EHSAN**

LENDANG KONSERVASI: **PERAKULAN**
Dibuat oleh (Konservator Perundangan): **DR. HJ. HANNAH BERNARD**
Dibuat oleh (Konservator Perundangan): **DR. HJ. HANNAH BERNARD**
Dibuat oleh (Konservator Perundangan): **DR. HJ. HANNAH BERNARD**

Uraian: **CONTOH**

Disetujui oleh (Pegawai Pengira): **DR. HJ. HANNAH BERNARD**

Minimal risk of significant loss, damage or uncertainty in performance through intervention
- apply only **proven conservation methods & techniques**



Source: Ahmad, A. G

Reversibility of interventions
- to reduce possible problems with future treatment, investigations and use






Distinguishable use of new and additional materials

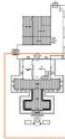
Document Requirements of National Heritage Department

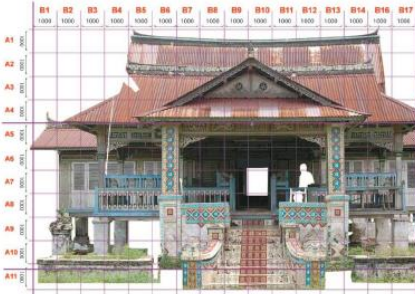
BEFORE	DURING	AFTER
<ul style="list-style-type: none">• Initial Study Report• Dilapidation Study Report & Proposal on Conservation Works• HABS 1• Video recording	<ul style="list-style-type: none">• HABS 2• Video recording	<ul style="list-style-type: none">• HABS 3• Final Report• Video recording


*Provides **documentation** before, during and after conservation works*


Gambar	Perincian Lukisan	Nota
 <p>[02], [07], [11]</p>	 <p>PANDANGAN HADAPAN Grid 2-3</p>	 <p>[01] Lepaan pecah/ retak (Broken plaster) [02] Cat mengelupas (Peeling of paint) [03] Kelembapan menaik (Rising damp) [04] Kelembapan dari atas (Falling damp) [05] Penggaraman (Salt contamination) [06] Tumbuhan renek (Harmful growth)/ tumbuhan parasit [07] Serangan kulat (Fungus) [08] Kayu reput (Timber rot/ decay) [09] Talang air bermasalah (Poor rainwater goods) [10] Serangan anai- anai (Termite infection) [11] Tompokan air (Watermark) [12] Genting bumbung pecah/ berkulat (Broken roof tile/ fungus)</p>
Disediakan untuk : Garlis Architect Sdn. Bhd.	Dihantar kepada : Jabatan Warisan Negara Tingkat 1, 2 dan 10, Menara Chulan, Jalan Conlay, 50450 Kuala Lumpur	No. tulisan : BCPH/02 Ditulis oleh : Aida Diperiksa oleh : Prof. Nadya Amran Abdul Rahman Skala : Tiada


NO. GRID KAWASAN	KETERANGAN
Permukaan Dinding Keseluruhan Fasad , Pandangan Hadapan (rujuk tunjuk arah)	Secara keseluruhannya, keadaan fizikal fasad perlu dibaki dengan tumpuan diberikan kepada kerja - kerja baik pulih dinding utama yang rosak dengan menggunakan teknik konservasi. Pemilihan jenis kayu hendaklah mengikut spesifikasi yang ditentukan. Pemasangan semula tingkap / pintu dengan mengambil kira rupabentuk asal tingkap / pintu tersebut.











TAJUK PROJEK :	DALUJUS OLEH :	DISEMANGKUT OLEH :	PERKARA :	SKALA :	NOTA :
KERAJAAN MALAYSIA RUJUKAN PENGHILU RIAT MATAR , MERLIMAU , MELAKA	IZAM		FOTOGRAFI BERSKALA	n.s.f	
UNTUK : JABATAN WARISAN KEMENTERIAN REJELDATAAN , KESENAN DAN WARISAN (KEKKWA)	DI SEMANGKUT : ROZANNA	ARKITEK ROZANNA BAHAROM	Pandangan Hadapan (rujuk tunjuk arah)		
	TARIKH : JUN 2007			NO. PAK : 2005 LP 00011102	

Source: Abdul Rahman, A

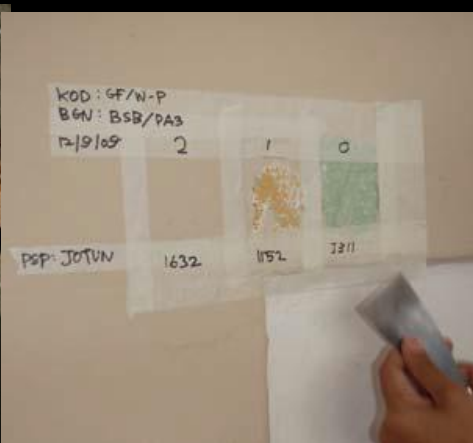
Provides **documentation** before, during and after conservation works



Be able to **extend the lifespan** of the building
- proper methods, choice of materials, scientific studies, 'top to down' approach



Be able to *extend the lifespan* of the building
- proper methods, choice of materials, scientific studies, 'top to down' approach



Source: Ahmad, A.G

- proper methods, choice of materials, scientific studies,



Along the process...



Setting

Design

AUTHENTICITY

Building materials

workmanship

Craftmanship

Aim : Preserve AUTHENTICITY

Not only the physical return, also emotion, memory & the resulting sense after conservation.

Avoid creating false historical appearance

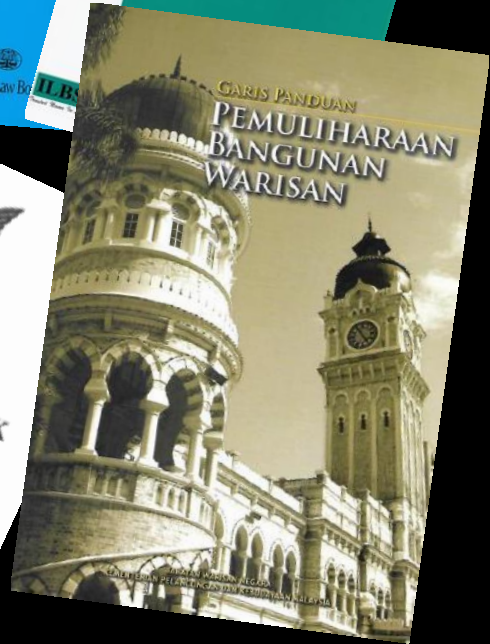
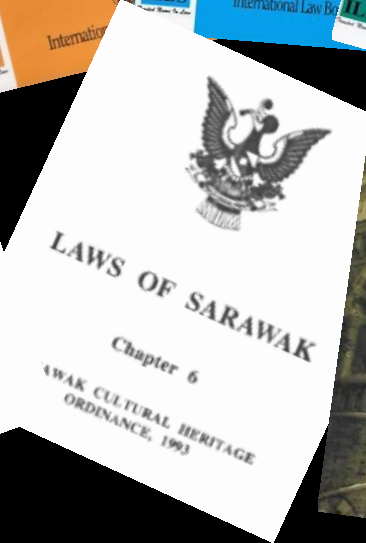
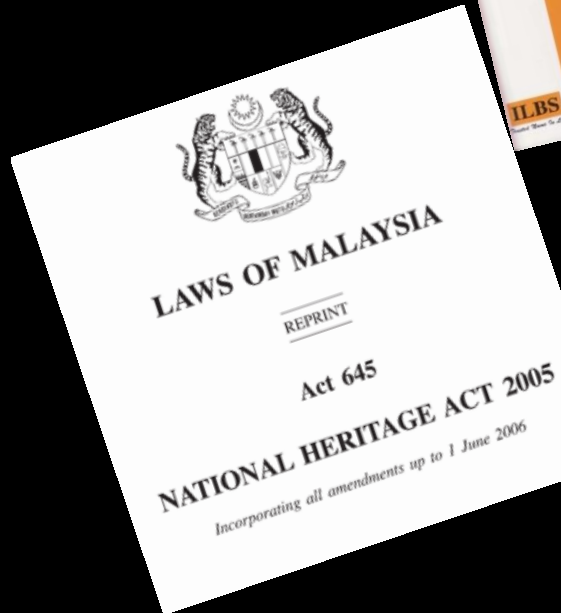
NORMAL PROJECT vs BUILDING CONSERVATION PROJECT

- Different scope of work
- Detail documentation and record
- Thorough research (Historical & Scientific)



Source: <http://heritage-malaysia2u.blogspot.my>

Knowledge and understanding





handled with great sensitivity and skills



Multidisciplinary field & teamwork : Inputs from various professionals & stakeholders

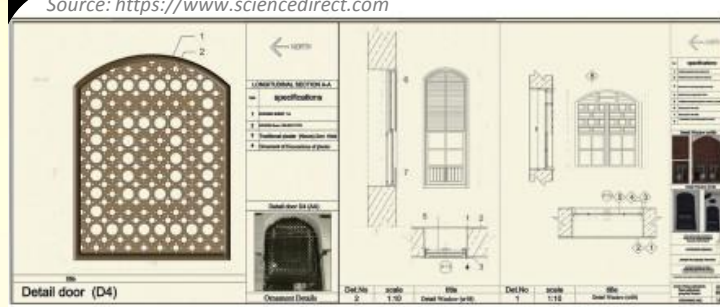
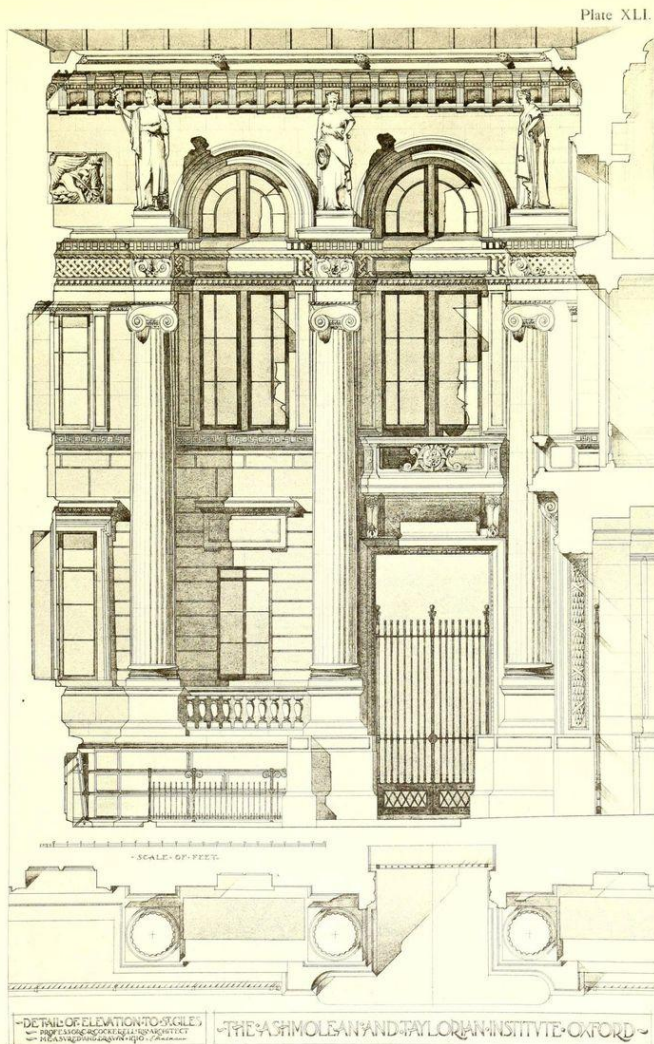


Good practice

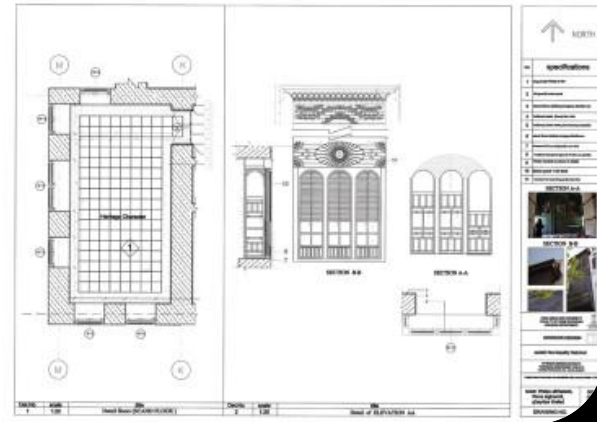
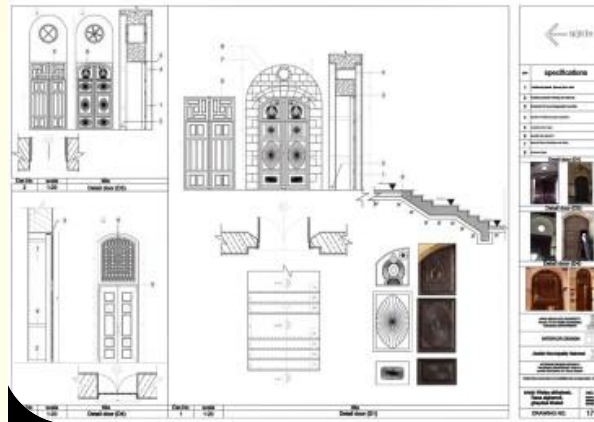




*Good forward **planning***



FRONT ELEVATION AA



Clear, concise **documentations**



Professional advice and skills





Source: <http://penangshophouse.com.my>

Trade skills



muzairi mustapa

Traditional materials and techniques



New technologies – when to use?

*Making **BALANCED** judgements...*



*Effective building conservation demands a balance between the **retention** of tested & valuable traditions & the **development** of new techniques to **meet changing circumstances** such as market forces & community expectations. Practice involves finding **creative solutions**, **negotiations**, & **compromise** in order to find **OPTIMUM OUTCOMES**.*



has the significance of the place been retained?

Has the job been done well?



will the work stand the test of time?

Measuring the quality of outcomes

Not to forget...



Proper **MAINTENANCE**

CONCLUSION

Building conservation is a **complex & creative** activity.

- ❖ about finding **creative solutions** to conserve
- ❖ guided by **principles, ethics** and **policies**
- ❖ ensure **prolong the life** of the building to meet their **full potential** as part of the fabric of our society today and the future



CONCLUSION

There is no specific or special formula to a
SUCCESSFUL BUILDING CONSERVATION.

All we can do :

GAIN

- KNOWLEDGE
 - SKILLS
- EXPERIENCES

LEARN FROM

- Experiences of others
- Various proven methodologies
 - Best practices
 - Guidelines

BALANCED JUDGEMENT



Serambi Warisan 2018 - "Warisan Kita"

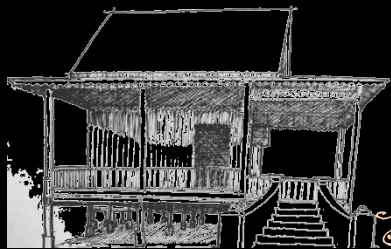
"Andai ku dibuang tak diterima..."

Andai aku disingkirkan..."



*If we do not try & don't take rightful action, we will not succeed in protecting
our valuable heritage for the present and the future*

Sekian Terima Kasih



Serambi Warisan 2018 - "Warisan Kita"