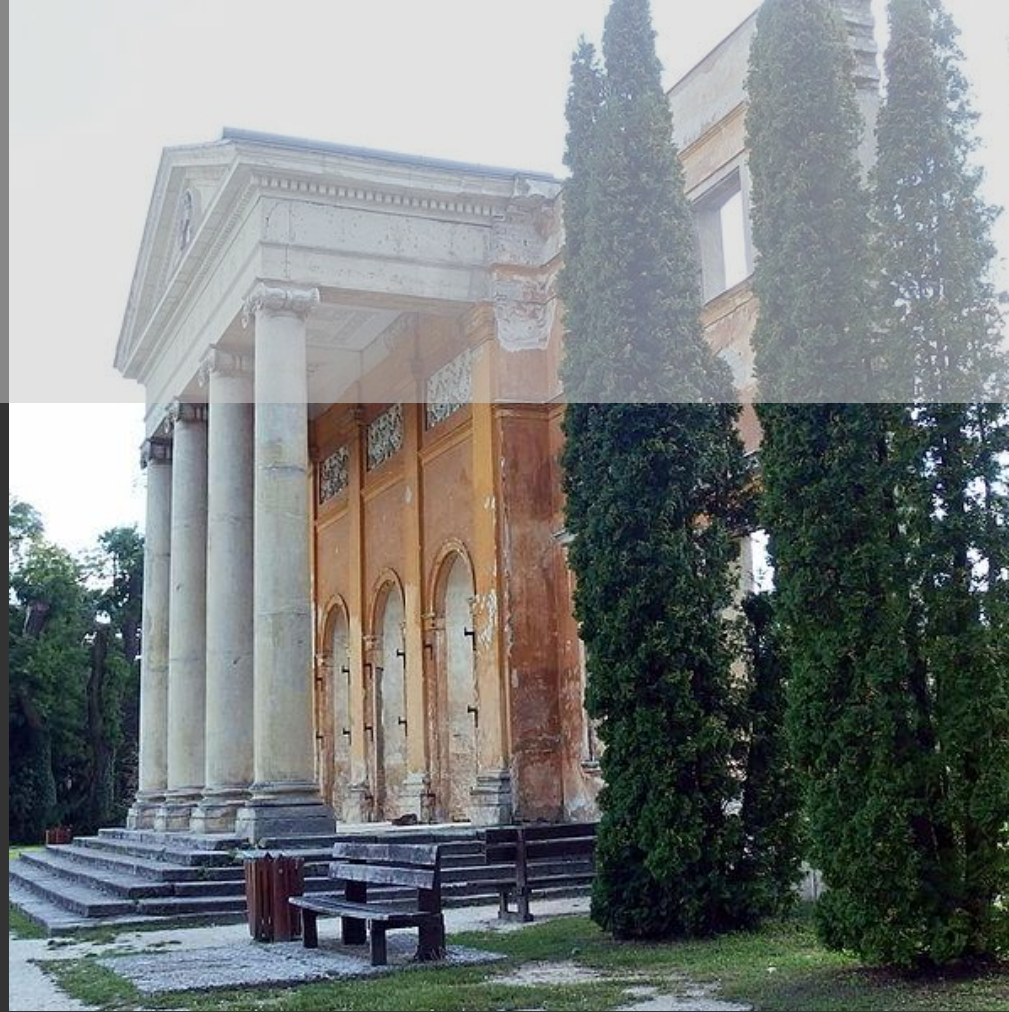


„REVITALIZATION”

INTERDISCIPLINARY DESIGN

Utilization of Historic Architectural Monuments

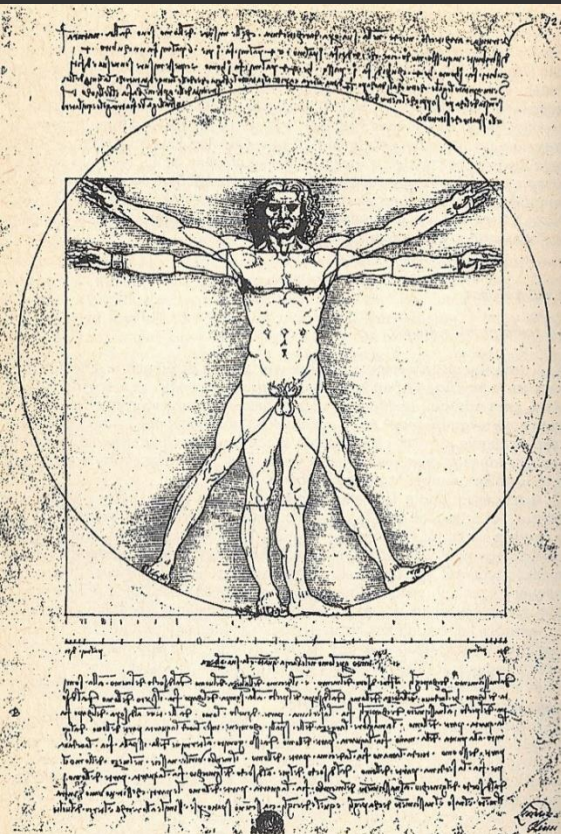


Specific Design Methodology
In case of Historic Monuments

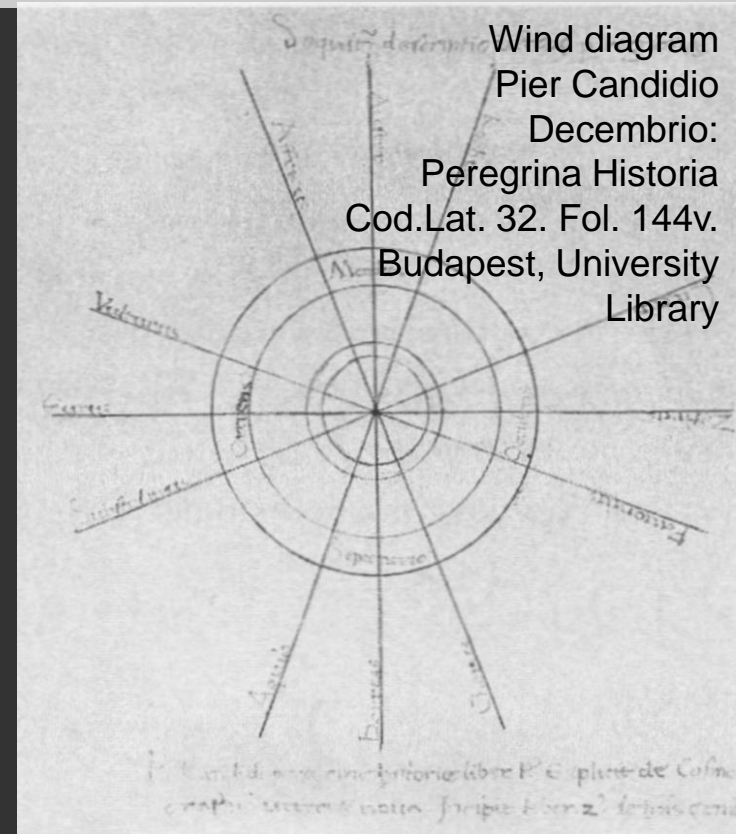
„Revitalization” – Utilization of Historic Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

- **Firmitas** - Solidity
- **Utilitas** - Utility
- **Venustas** - Beauty



Vitruvius (Marcus Vitruvius Pollio, 84 BC– 14. AD): De architectura libri decem (Ten books on Architecture) – about 33-14 BC.



Factors that Determine Architectural Form
According to Modernist Architects (The „Holy Trinity” of the Architecture of the Antiquity)

- Firmitas - Solidity
- Utilitas - Utility
- Venustas – Beauty = Aesthetical understanding

There are three aesthetic systems unfolded in early medieval times:

1. The aesthetic understanding of transcendence („intelligible beauty”)
2. Aesthetics of qualities („light-theory”)
3. Aesthetics of quantities („proportion-theory”)

„Revitalization” – Utilization of Historic Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

There are three aesthetic systems unfolded in early medieval times:

1. The aesthetic understanding of transcendence („intelligible beauty”)

Transformation of Platon's „ideas” into theology from Plotinos's theory of „emanation” – the understanding of the Material as a „pneumatic” substance – to St. Augustine's „internal beauty”: to his architectural theory determined by the space..

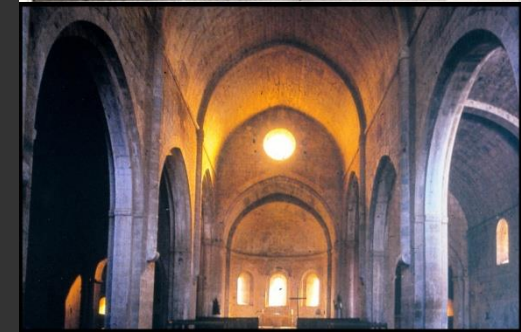
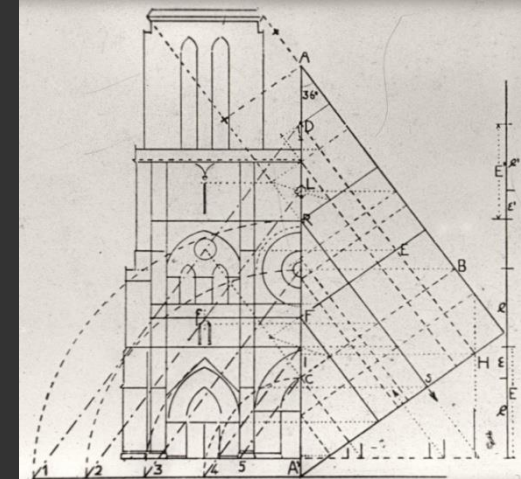
2. Aesthetics of qualities („light-theory”)

The light appears at Plotinos as an aesthetic phenomenon, but apart from the dualistic light-cults of the era it does not bears divine characters. It is Ambrosios who recognises its special characters, and handles it apart from proportional theories. It is Dionysios who determines its divine natur: its power that can enlighten human mind. This light symbolism is propagated the most effectively by the activity of Eurigena

3. Aesthetics of quantities („proportion-theory”)

From the Pythagorean mystical notion of the numbers the development leads through Aristotel and Platon to Galenos and to the commentaries of Polykleitos forming the quantitative aesthetics in which the central notion is: proportion.

On the basis of Cicero it was St Agustin who dealt with its notion, and it had a significant effect on the aesthetical approach of the medieval music, literature and architecture. The aesthetic rules and proportional theories of Vitruvio where known by Izidorus from Seville.



„Revitalization” – Utilization of Historic Architectural Monuments – Interdisciplinary Design
Specific Design Methodology in Case of Historic Monuments

- Material - Solidity and Utility
- Structure - Solidity and Utility
- Function - Utility
- ...where is Beauty...

...in all the three

„Form Follows Function...”

„Less is More...”

„Aesthetic value is hidden in the appropriaty of the form to structural perfection...”

„Honest surphaces, true-to material appearances...”

Factors that Determine Architectural Form
According to Modernist Architects (Beginning of 20th Century)

„Revitalization” – Utilization of Historic Architectural Monuments – Interdisciplinary Design
Specific Design Methodology in Case of Historic Monuments

- Material - Solidity – Utility - Beauty
- Structure - Solidity – Utility - Beauty
- Function - Utility – Beauty

(Correct modernist notion)

„Form Follows Function...”

„Less is More...”

„Aesthetic value is hidden in the appropriaty of the form to structural perfection...”

„Honest surphaces, true-to material appearances...”

Factors that Determine Architectural Form
According to Modernist Architects (Beginning of 20th Century)

„Revitalization” – Utilization of Historic Architectural Monuments – Interdisciplinary Design
Specific Design Methodology in Case of Historic Monuments

- Material - Solidity – Utility - Beauty
- Structure - Solidity – Utility - Beauty
- Function - Utility – Beauty
- Symbols - Beauty (Human factors and correspondencies...)
(Correct Post-modern notion)

„Form Follows Symbols...”

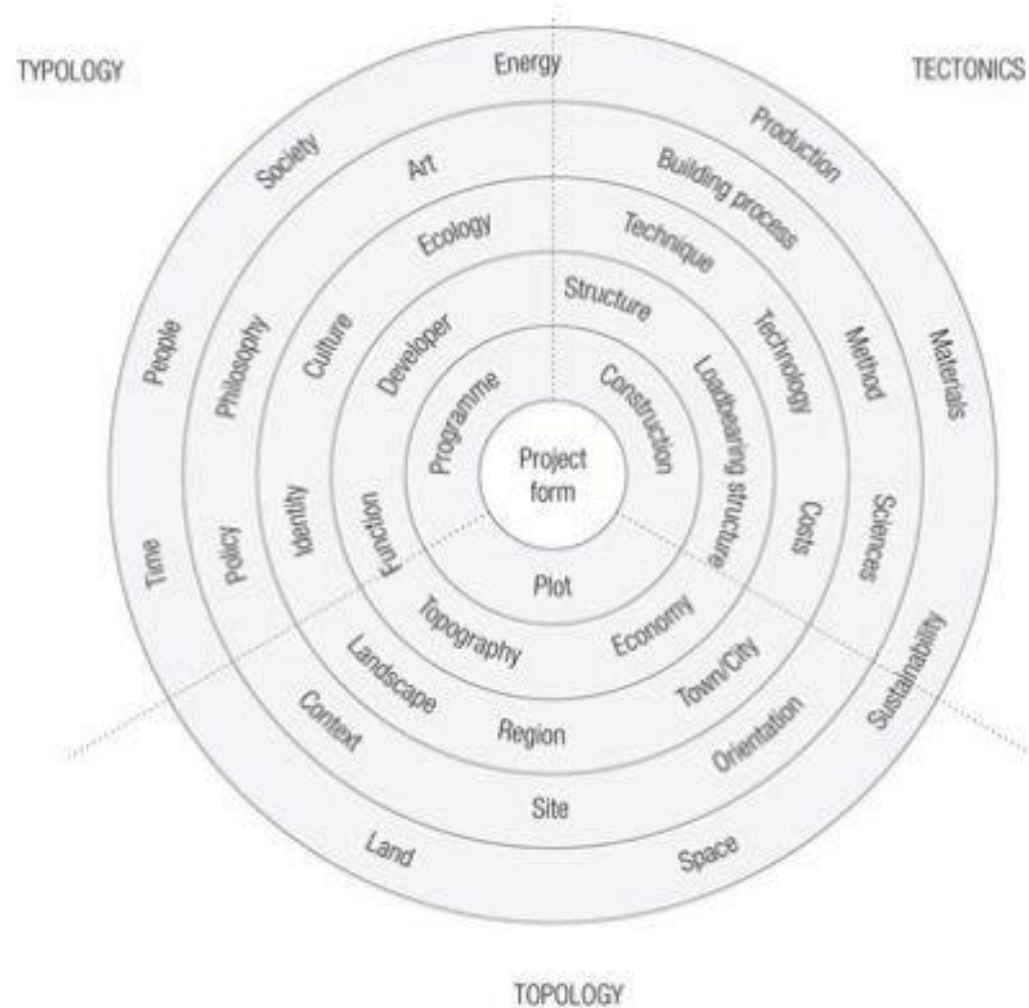
„Less is Bore...”

„Aesthetic value is hidden in the appropriaty of the form to structural perfection...”

Factors that Determine Architectural Form
According to Modernist Architects (Beginning of 20th Century)

„Revitalization” – Utilization of Historic Architectural Monuments – Interdisciplinary Design Specific Design Methodology in Case of Historic Monuments

Az építészeti tervezést meghatározó tényezők_Kenneth Frampton diagramja



Factors that Determine Architectural Form
According to Kenneth Frampton

„Where is tradition?”

... we are always
following traditions:
sometimes these
are contemporary and
sometimes these
are very old...

„Revitalization” – Utilization of Historic Architectural Monuments – Interdisciplinary Design
Specific Design Methodology in Case of Historic Monuments

„Where is tradition?”

*... we are always
following traditions:
sometimes these
are contemporary and
sometimes these
are very old...*

*„Is designing in a
monument
preservational
environment a
special case?”*

*... or the lack of the
historic
environment is a
special case...?*

*„How can we
approach the
historic
environment?”*

*How can we learn
the historic context?*

*What is „genius loci”
– spirit of the plot?*

Factors that Determine Architectural Form
According to Kenneth Frampton

„Revitalization” – Utilization of Historic Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

1. *Learning the historic morphology of the:*
 1. *plot,*
 2. *surrounding,*
 3. *district,*
 4. *town,*
 5. *country.*
2. *Evaluating the Historic context: producing the list of historic values.*
3. *Fixing the hierarchy of determining factors (that influence the architectural form)*
4. *Fixing the architectural concept on the basis of that hierarchic system*
5. *Monitoring the creation of forms while determining the details (sub-suytems)*

The historic values are allways the core of the concept, and all the decisions are subordinate to this values.

„REVITALIZATION” INTERDISCIPLINARY DESIGN Utilization of Historic Architectural Monuments

BUDAFOKI ÚTI EGYKORI LŐPORTÁR MŰEMLÉKVÉDELMI TUDOMÁNYOS DOKUMENTÁCIÓ

BUDAPEST XI. KER. BUDAFOKI ÚT 209-215.
HRSZ. 3995/5.



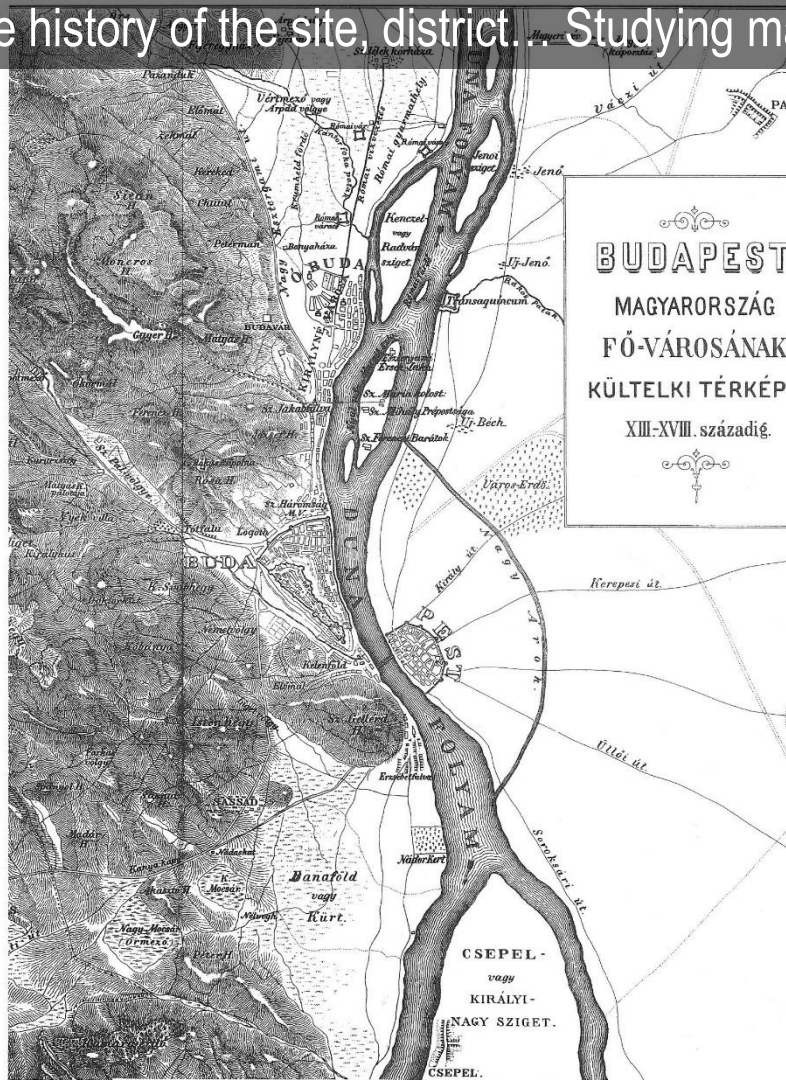
Determining Historic Values
of Historic Monuments
Case Study:
Baroque Gunpowder store
On a Southern Buda Site

BUDAPESTI MŰSZAKI ÉS GAZDASÁGTUDOMÁNYI EGYETEM
ÉPÍTÉSZETTÖRTÉNETI ÉS MŰEMLÉKI TANSZÉK
2003. SZEPTEMBER

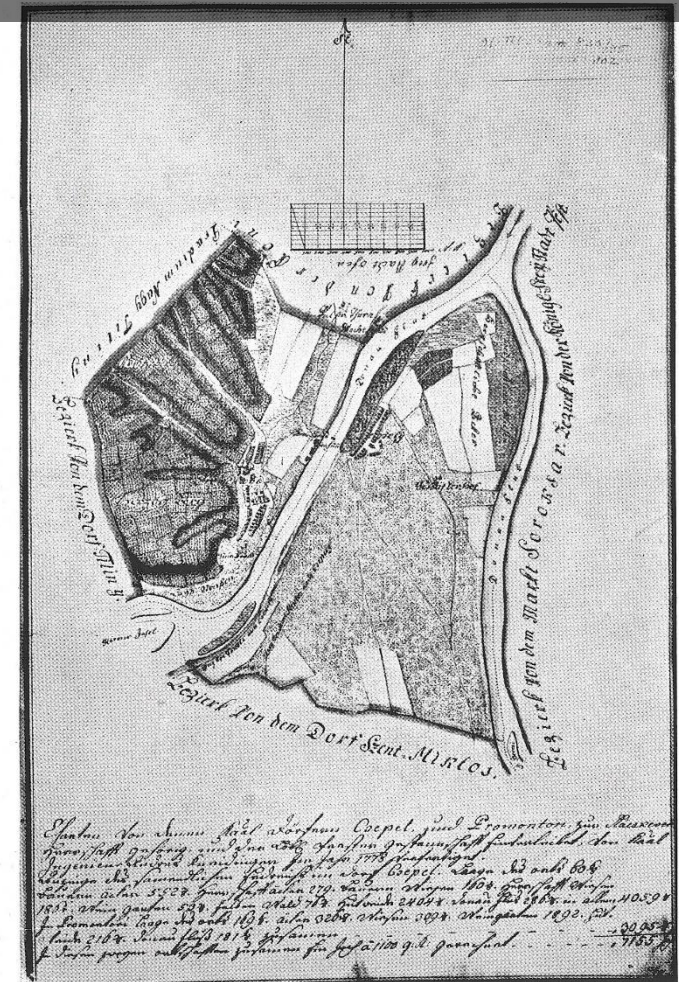
„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

1. Learning the history of the site, district. Studying maps



BUDAPEST MAGYARORSZÁG FŐ-VÁROSÁNAK KÜLTELKI TÉRKÉPE. XIII.-XVIII. SZÁZADIG
(In. RUPP 1868. II. TÁBLA, RÉSZLET)



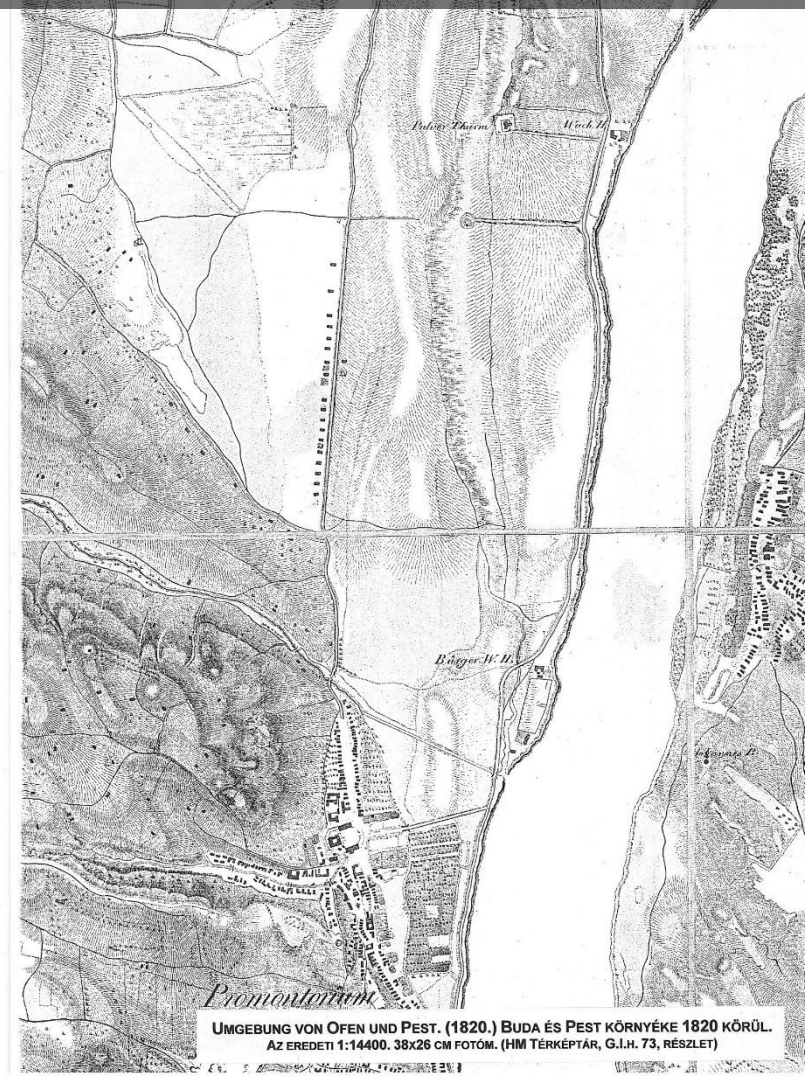
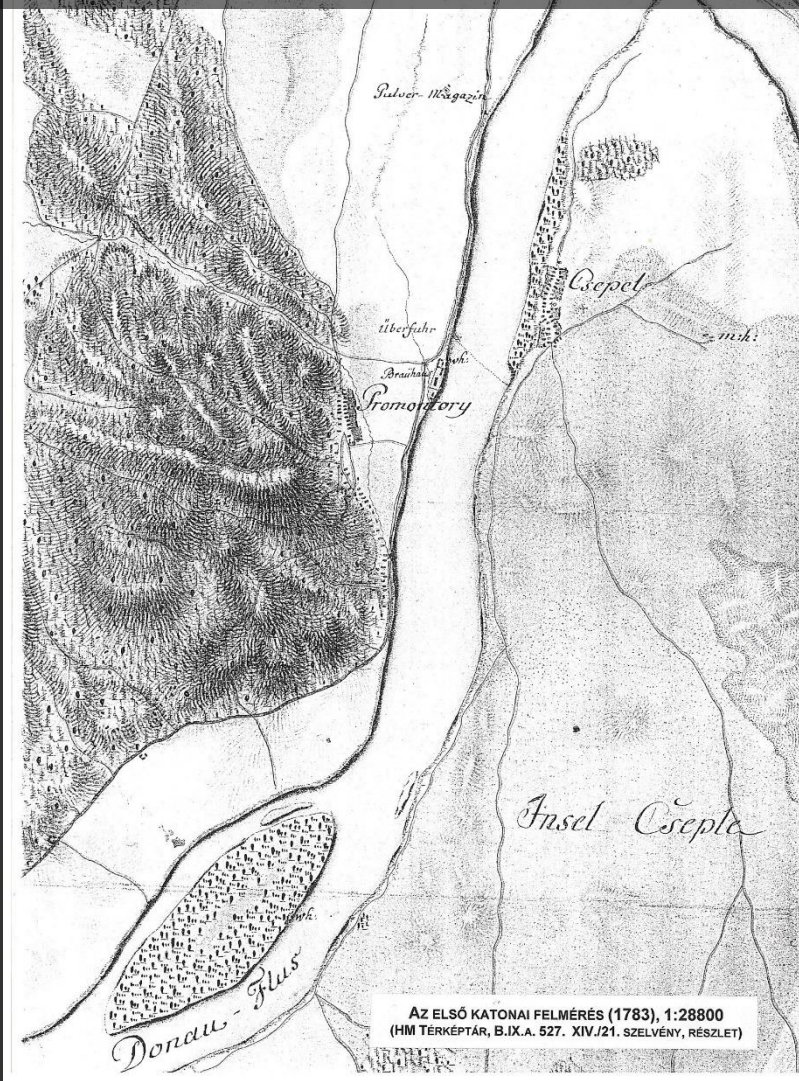
CSEPEL ÉS PROMONTOR (1778), KNEIDINGER ANDRÁS TÉRKÉPE.
KNEIDINGER ATLAS XCV.
(OL S11. KAMARAI TÉRKÉPEK, NR. 830/95.; KÖZLI: KUBINYI 1959. 4. KÉP, KUBINYI 1965. 21. O.)

Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

1. Learning the history of the site, district... Studying maps

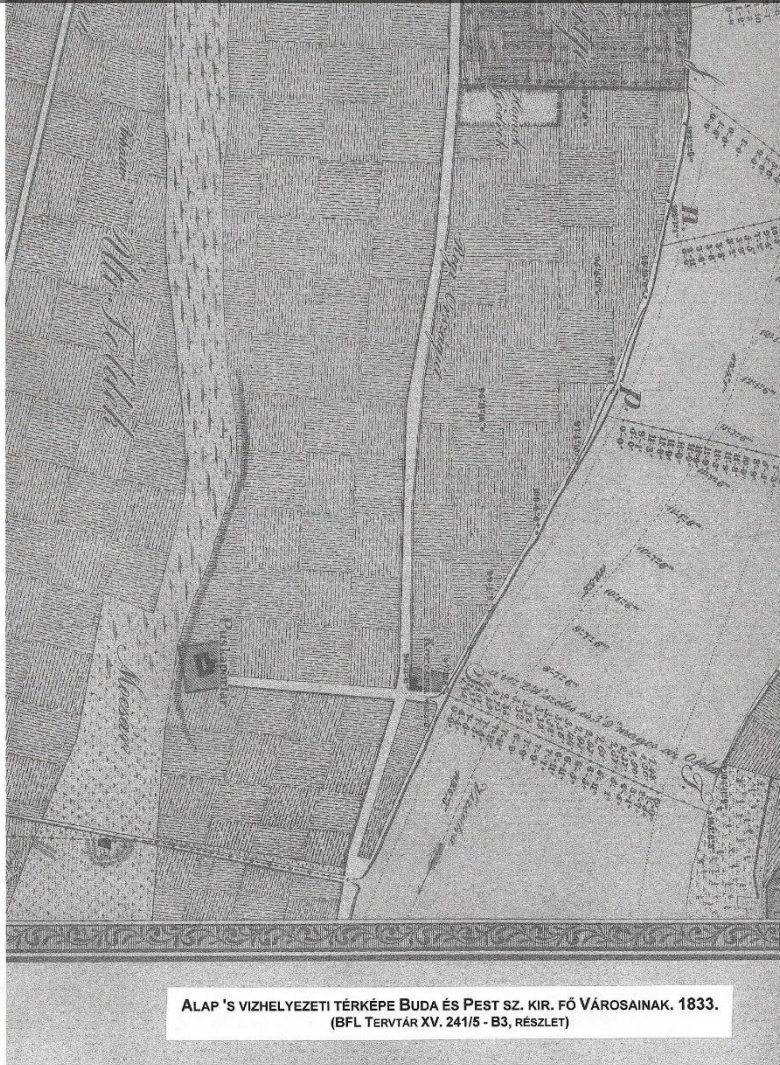


Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

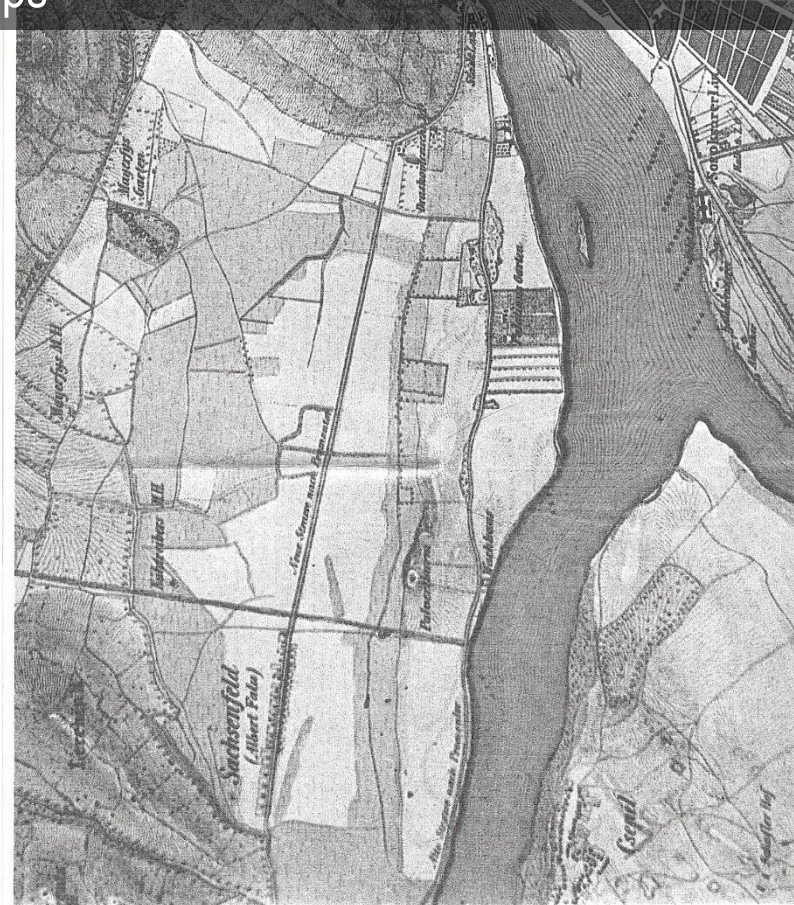
„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

1. Learning the history of the site, district... Studying maps



ALAP 'S VIZHELYEZETI TÉRKÉPE BUDA ÉS PEST SZ. KIR. FŐ VÁROSAINAK. 1833.
(BFL TERVTAR XV. 241/5 - B3, RÉSZLET)



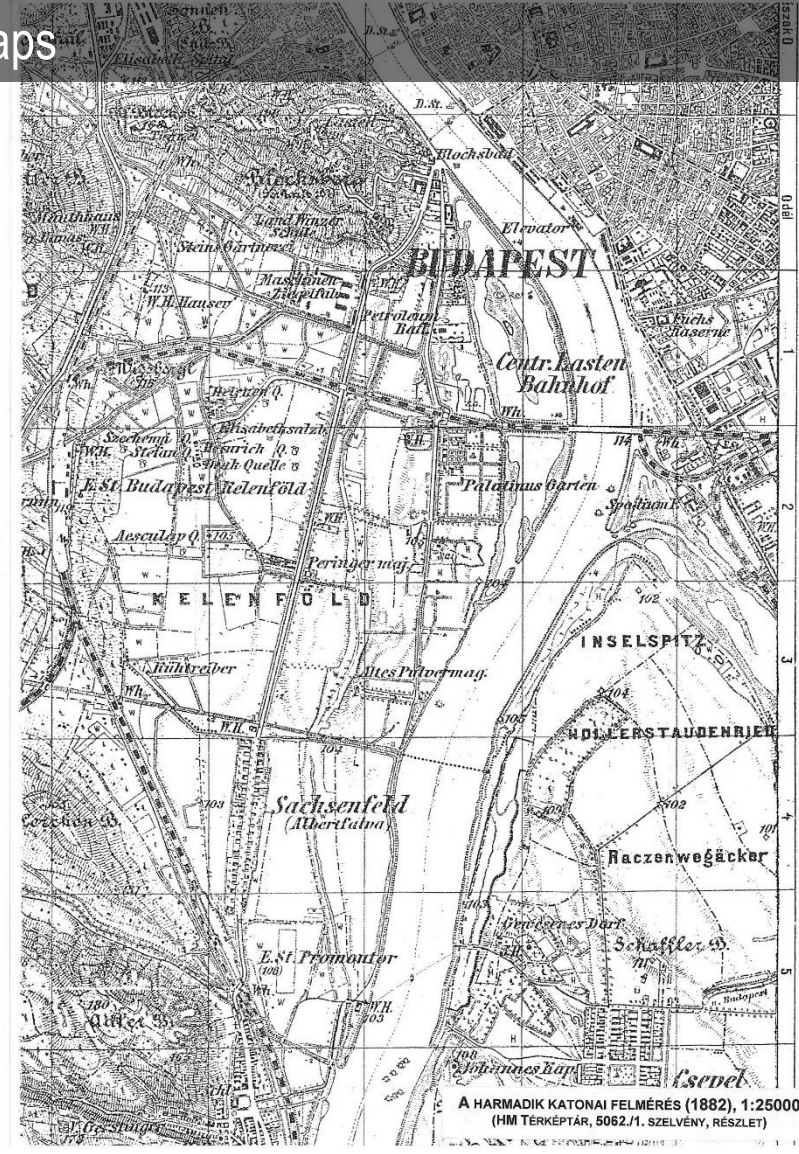
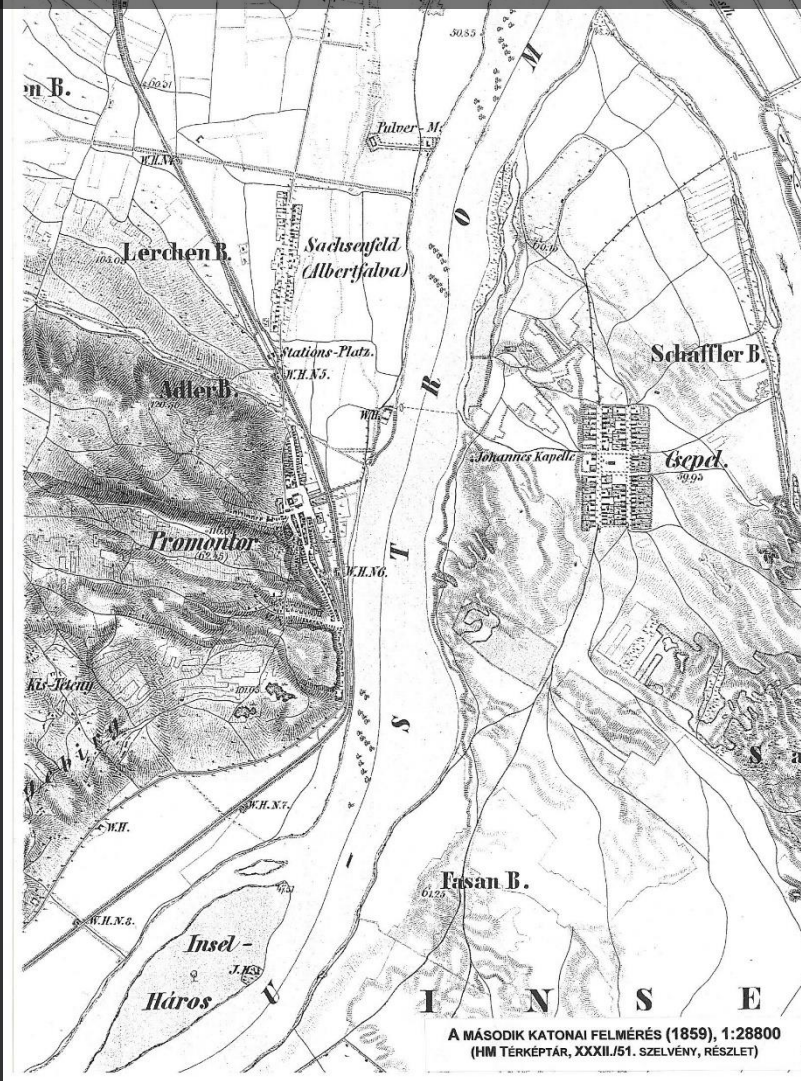
P. K. VASQUEZ: BUDA ÉS PEST SZABAD KIRÁLYI VÁROSAINAK TÁJLEÍRÁSA, 1838.
(KÖZLI: NAGY-BÓNIS 1975, I. MELLÉKLET - FELÍRATA TÉVESEN 1760,
FELCSERÉLVÉ A III. MELLÉKLET FELÍRATÁVAL)

Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

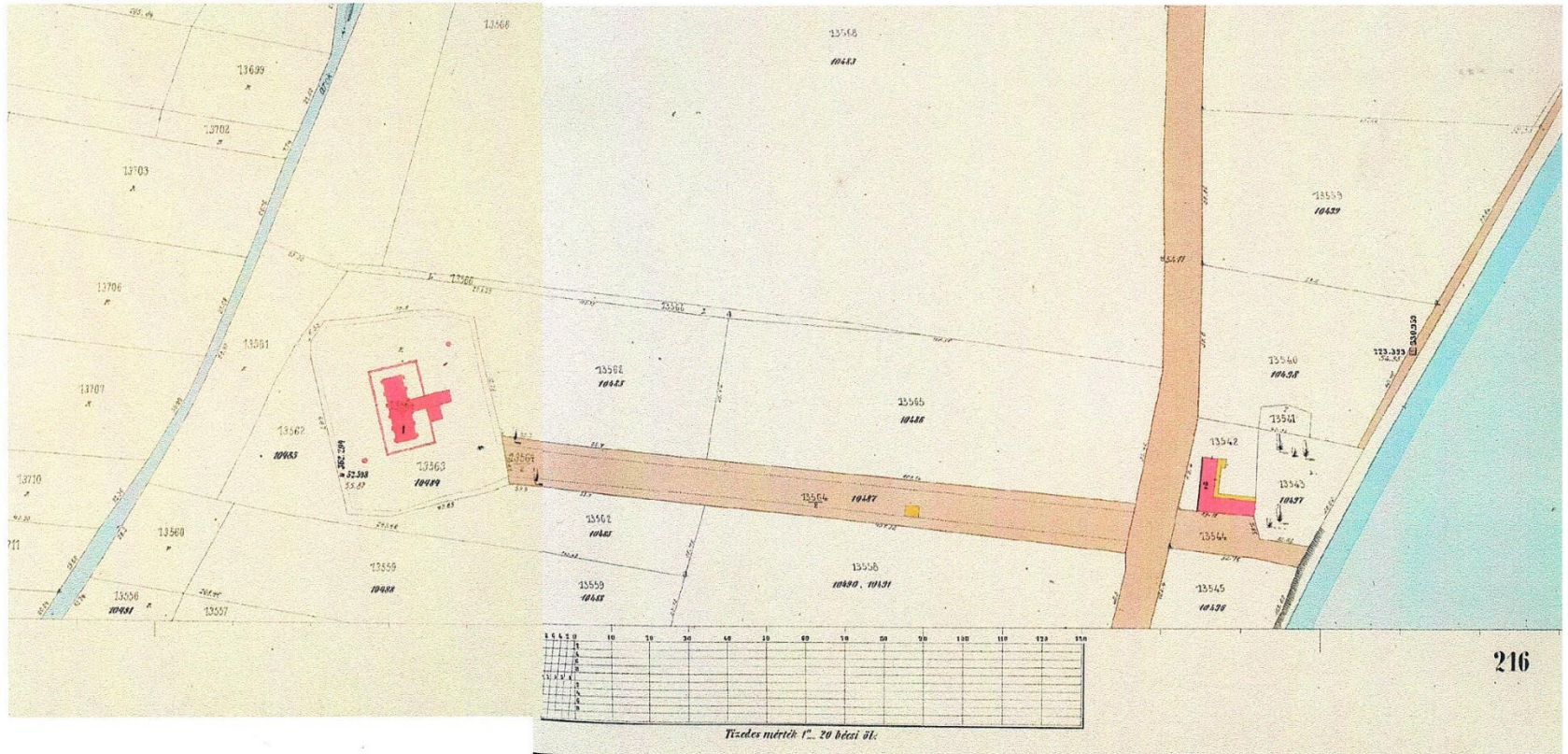
1. Learning the history of the site, district... Studying maps



Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design Specific Design Methodology in Case of Historic Monuments

1. Learning the history of the site, district... Studying maps



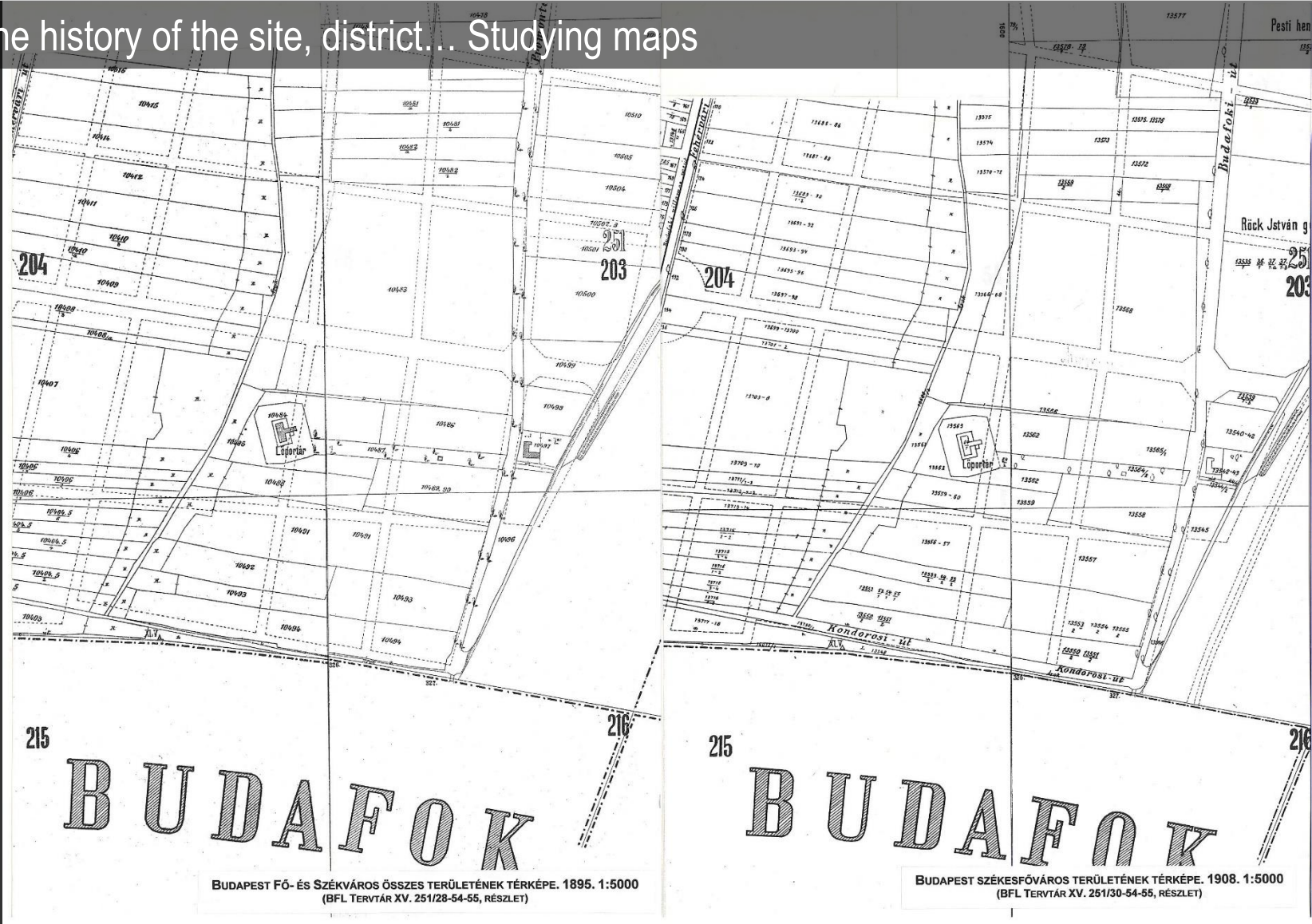
KATASZTERI TÉRKÉPEK, BUDA 1870. 1:1440
(OSZK TÉRKÉPTÁR TA 8207, 203-204. SZELVÉNY,
MÁSOLATA, 1872: OL S78. 144. TÉKA, BUDA 203-204. SZELVÉNY)

Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

1. Learning the history of the site, district... Studying maps

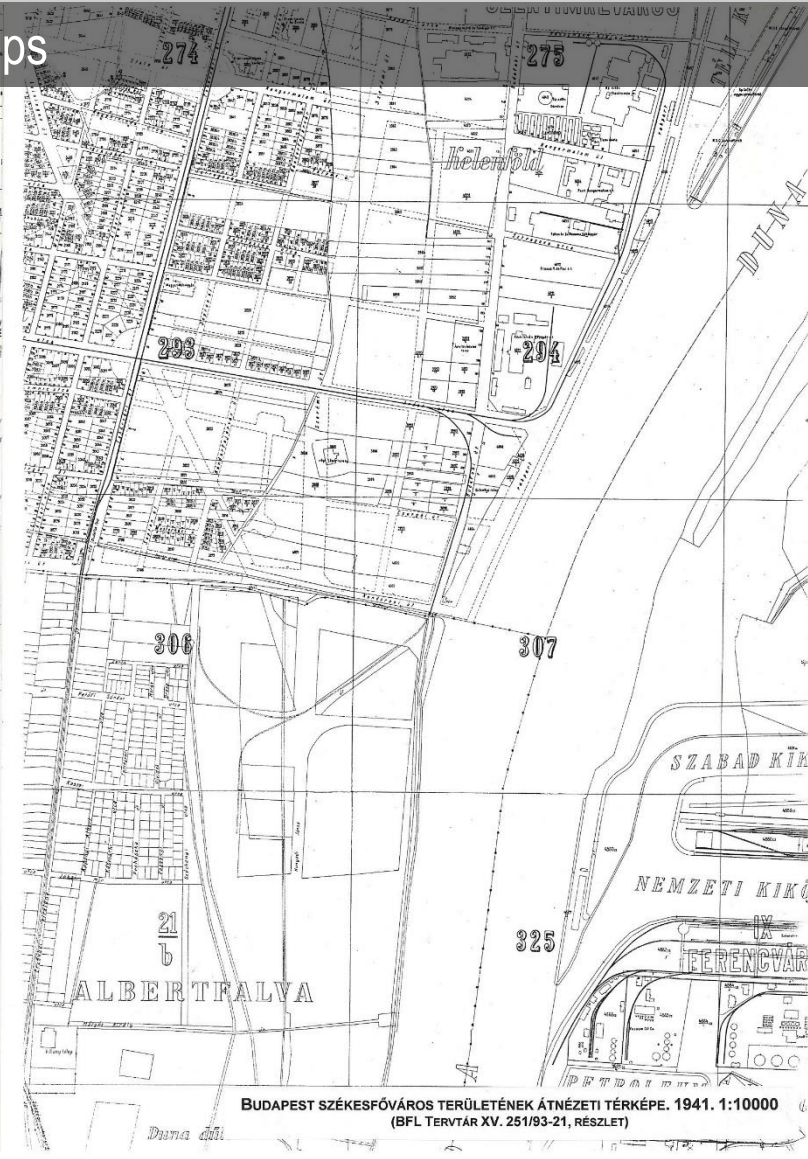


Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

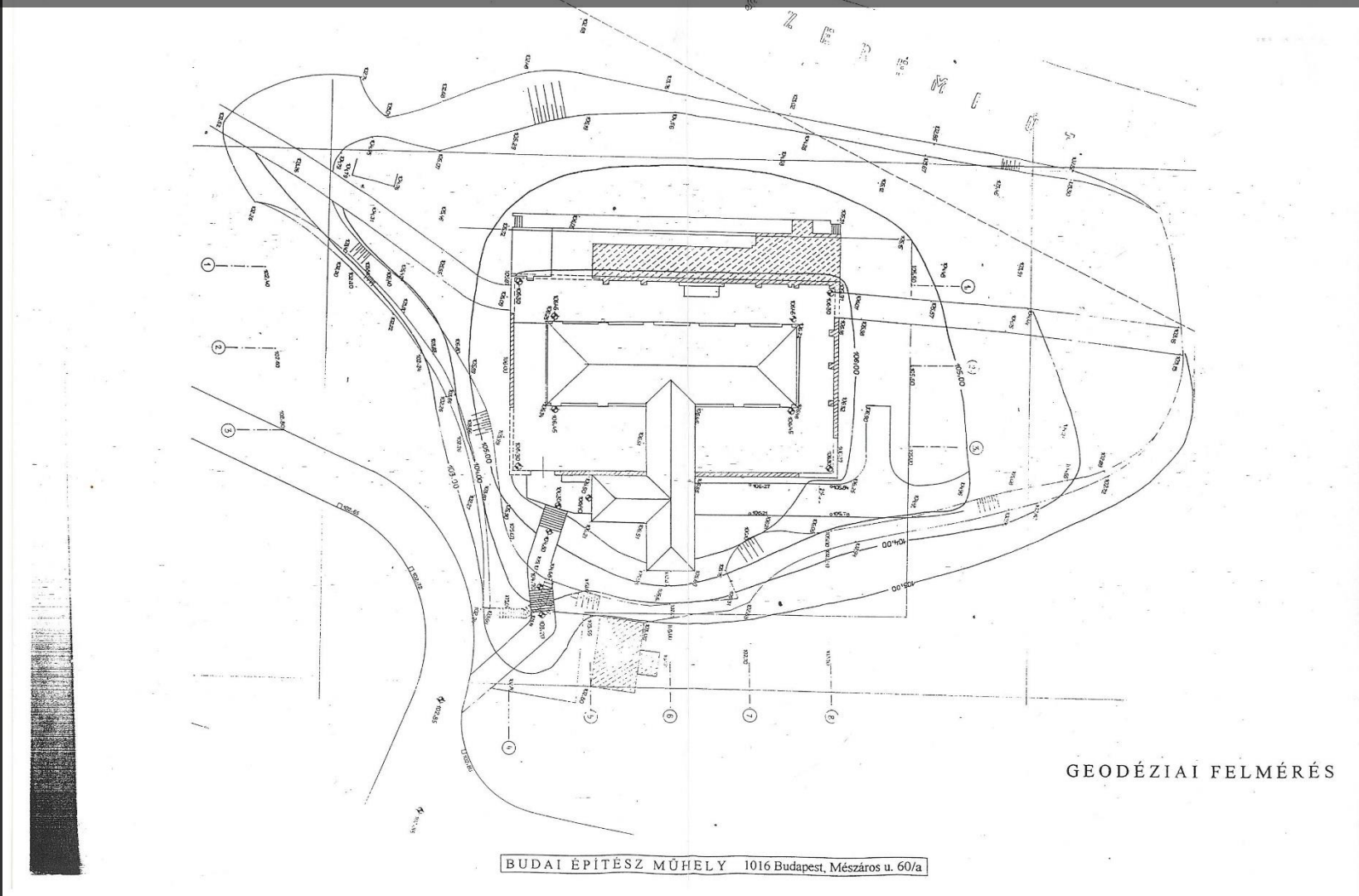
1. Learning the history of the site, district... Studying maps



Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design Specific Design Methodology in Case of Historic Monuments

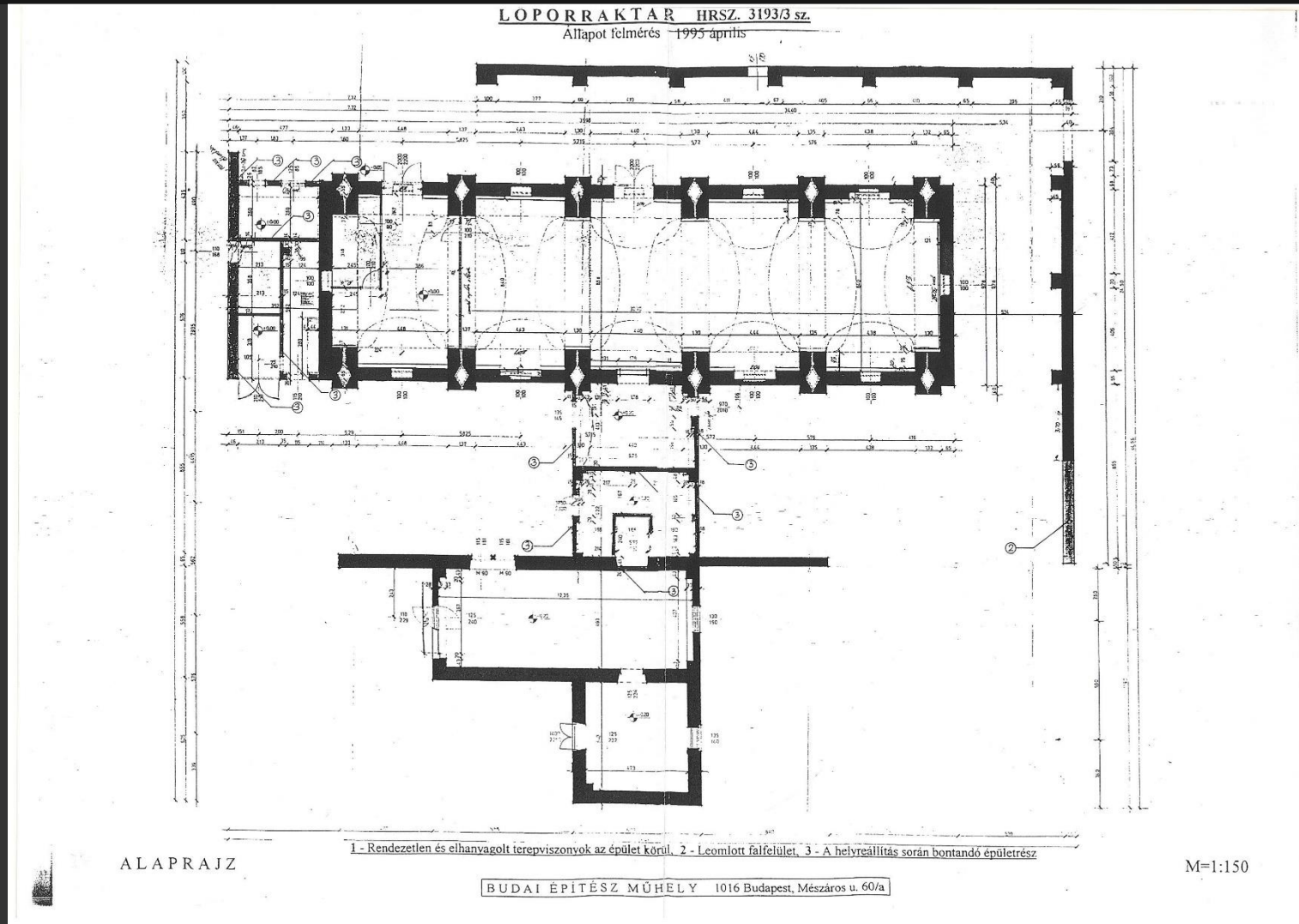
2. Learning the history of the site, district... Studying architectural plans



Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design Specific Design Methodology in Case of Historic Monuments

2. Learning the history of the site, district... Studying architectural plans

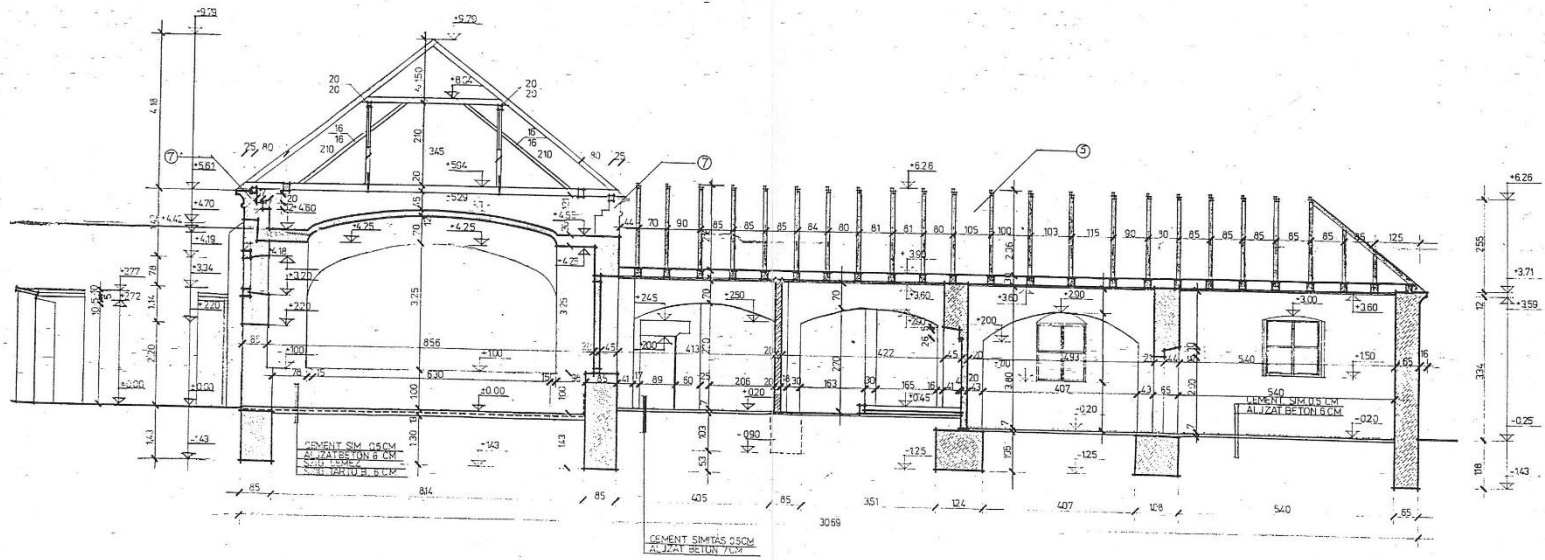


Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

2. Learning the history of the site, district... Studying architectural plans



3 - A helyreállítás során bontandó épületrész, 4 - Hiányzó nyílászárók, 5 - Hiányzó tetőszerkeze, hiányzó héjalás, 6 - Sérült tetőszerkezet és héjalás
7 - Sérült párkány

METSZET

M=1:100

BUDAI ÉPÍTÉSZ MŰHELY 1016 Budapest, Mészáros u. 60/a

Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

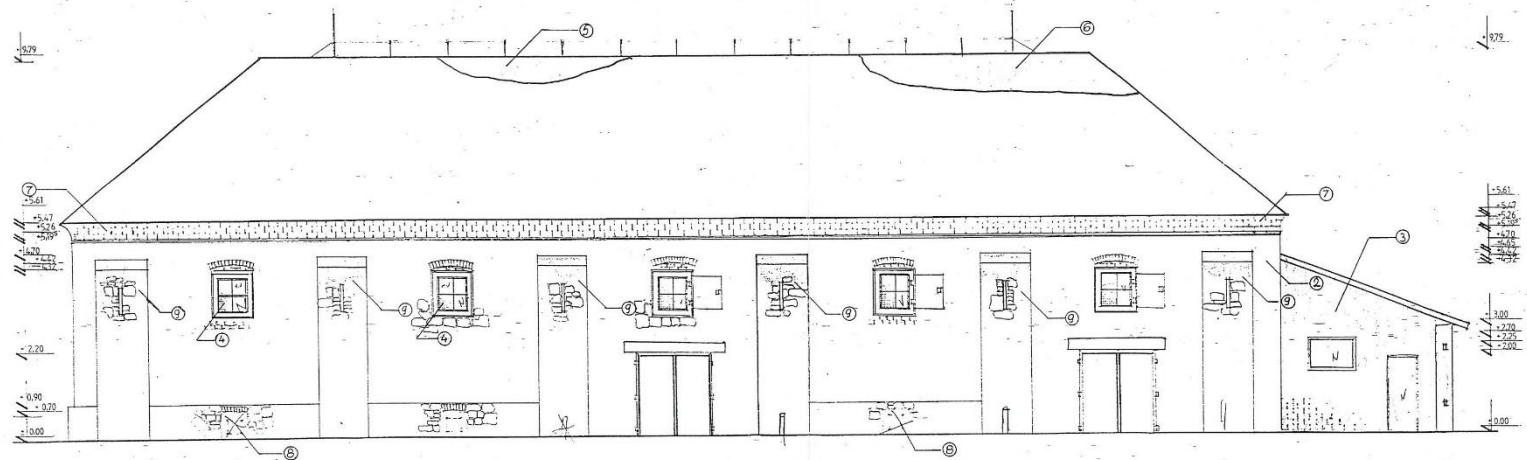
2. Learning the history of the site, district... Studying architectural plans



Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design Specific Design Methodology in Case of Historic Monuments

2. Learning the history of the site, district... Studying architectural plans



2 - Leomlott falfelület, 3 - A helyreállítás során bontandó épületrész, 4 - Hiányzó nyílászárók, 5 - Hiányzó tetőszerkeze, hiányzó héjalás

6 - Sérült tetőszerkezet és héjalás, 7 - Sérült párkány, 8 - Kibontandó szellőzőnyílás, 9 - Részlegesen elpusztult támpillérek

NYUGATI HOMLOKZAT

M=1:100

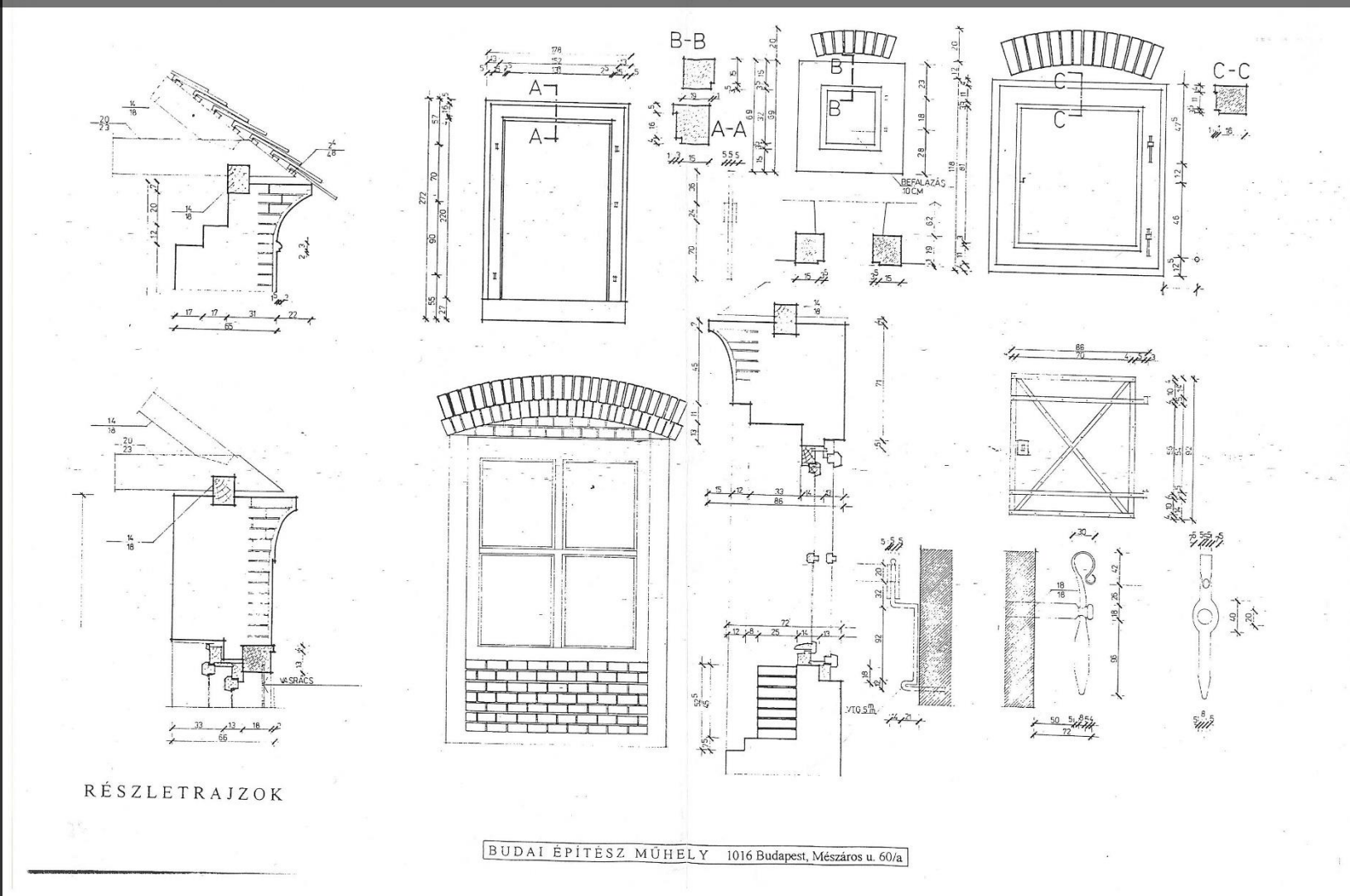
BUDAI ÉPÍTÉSZ MŰHELY 1016 Budapest, Mészáros u. 60/a

Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

2. Learning the history of the site, district... Studying architectural plans

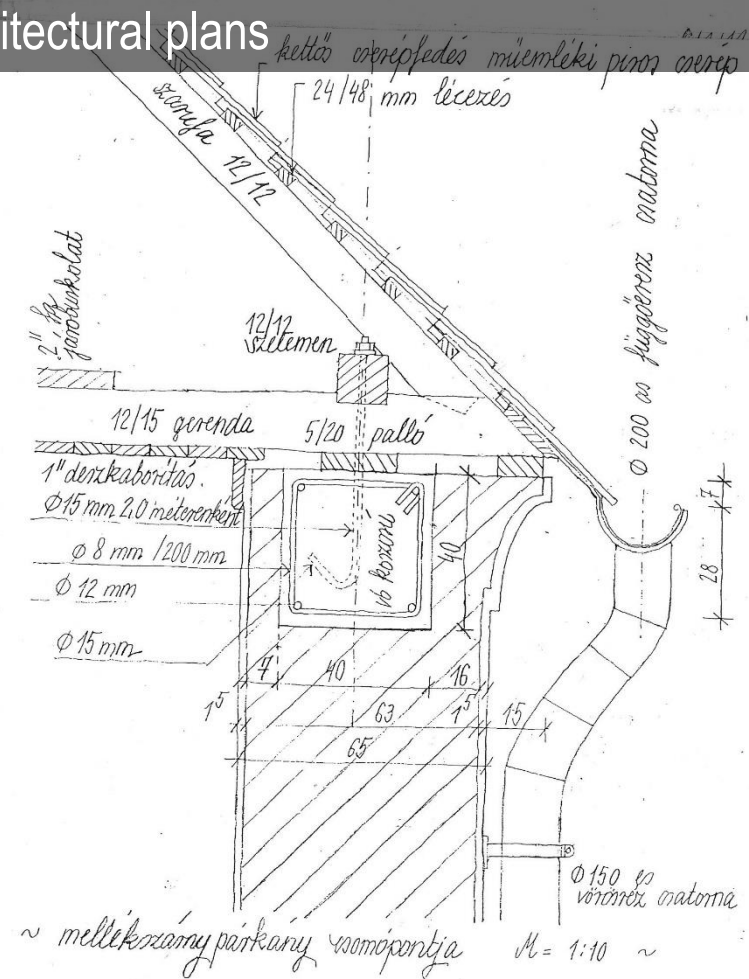
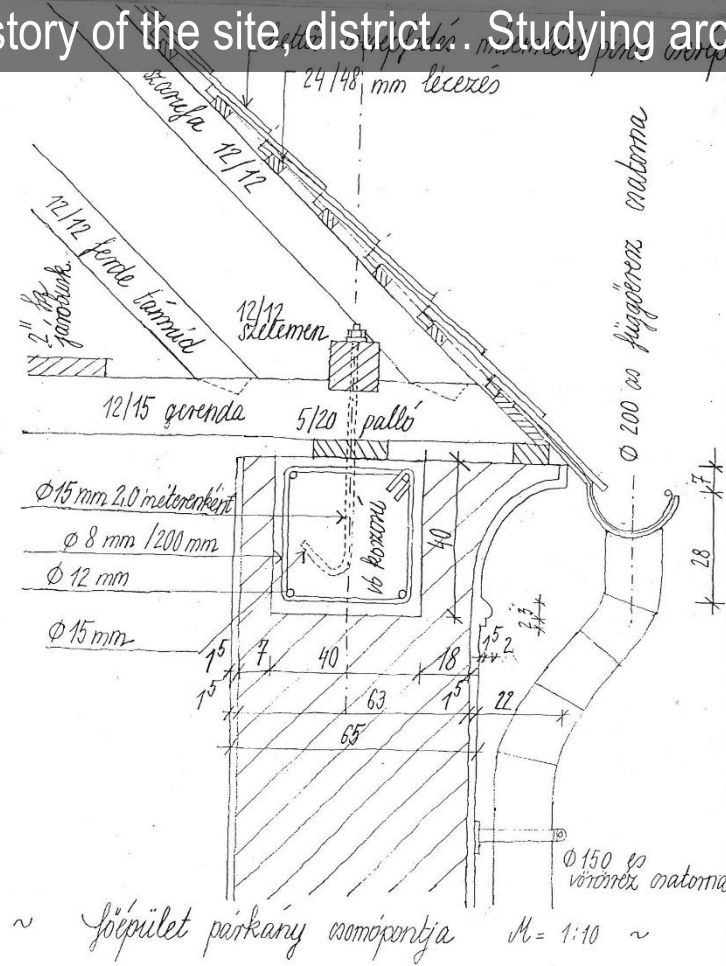


Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

2. Learning the history of the site, district. Studying architectural plans



BUDAI ÉPÍTÉSZ MŰHELY
BP. 1016 MÉSZÁROS U. 60/A.

LŐPORRAKTÁR FELÚJÍTÁSÁNAK
ENGEDÉLYEZÉSI ÉS KIVITELI TERVE
BP. XI. BUDAFOKI ÚT. 215.
BR. 1995. NOV. 10.

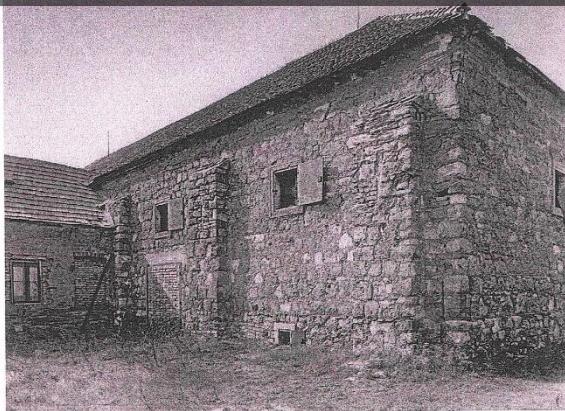
RÉSZLETRAJZ
m = 1:10

Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

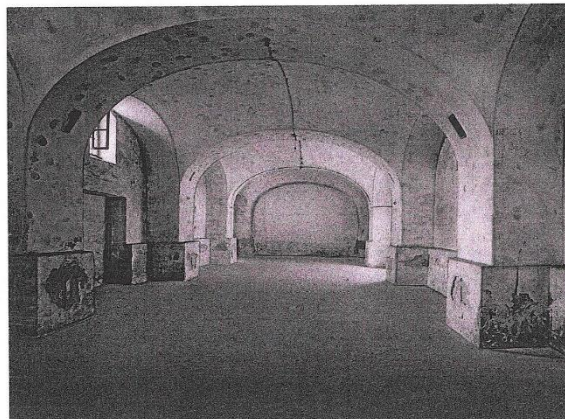
„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

3. Learning the history of the site, district... Studying photos from the archives



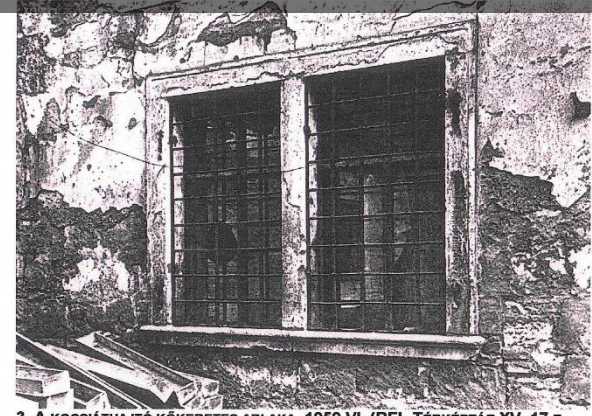
5. A FŐÉPÜLET ÉSZAKRÓL. 1959 VI. (MTI. SEIDNER ZOLTÁN: KÖH FOTÓTÁR, POZ. SZÁM: 68.898; BFL TÉRKÉPTÁR XV. 17.E. 306/1064. Ze 675/2400, 2407; KÖZLI: HORLER II. 522. o.)



6. A FŐÉPÜLET BELSŐ TERE. 1959 VI. (MTI. SEIDNER ZOLTÁN: KÖH FOTÓTÁR, POZ. SZÁM: 68.897; BFL TÉRKÉPTÁR XV. 17.E. 306/1064. Ze 675/2404; KÖZLI: HORLER II. 523. o.)

BME ÉPÍTÉSZETTÖRTÉNETI ÉS MŰEMLÉKI TANSZÉK

1111 BUDAPEST, MŰEGYTEM RAKPART 3.



3. A KOCSIÁTHAJTÓ KÖKERETES ABLAKA. 1959 VI. (BFL TÉRKÉPTÁR XV. 17.E. 306/1064. Ze 675/2408)



4. A FŐÉPÜLET DÉLI UTOLSÓ SZAKASZA KELETRŐL, A DÉLI TOLDALÉKÉPÜLETTEL. 1959 VI. (BFL TÉRKÉPTÁR XV. 17.E. 306/1064. Ze 675/2410)

BME ÉPÍTÉSZETTÖRTÉNETI ÉS MŰEMLÉKI TANSZÉK

1111 BUDAPEST, MŰEGYTEM RAKPART 3.

Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

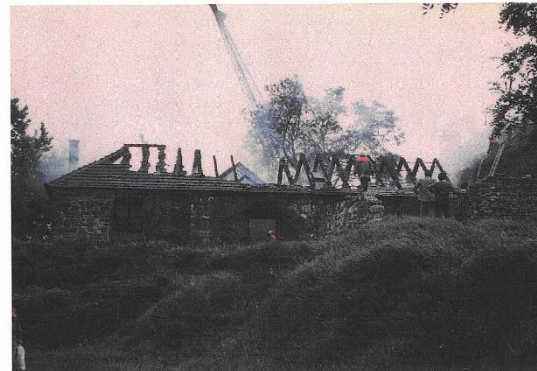
„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design Specific Design Methodology in Case of Historic Monuments

3. Learning the history of the site, district... Studying photos from the archives

BUDAFOKI ÚTI LŐPORTÁR MŰEMLÉKVÉDELMI TUDOMÁNYOS DOKUMENTÁCIÓ 2003. SZEPTEMBER



15. A LŐPORTÁR AZ 1986-OS TŰZVÉSZ OLTÁSA KÖZBEN. (ÉTELE KÖR 3045/B)



16. A LŐPORTÁR AZ 1986-OS TŰZVÉSZ OLTÁSA KÖZBEN. (ÉTELE KÖR 3045/B)

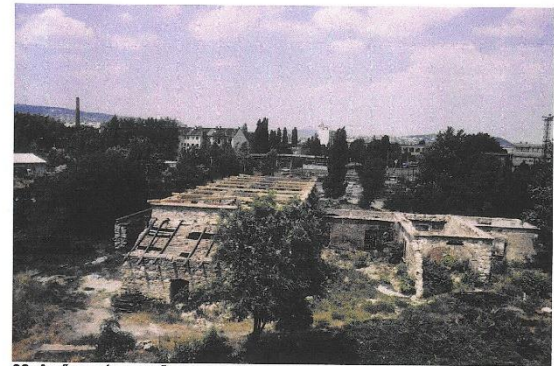
BME ÉPÍTÉSZETTÖRTÉNETI ÉS MŰEMLÉKI TANSZÉK

1111 BUDAPEST, MŰGYETEM RAKPART 3.

BUDAFOKI ÚTI LŐPORTÁR MŰEMLÉKVÉDELMI TUDOMÁNYOS DOKUMENTÁCIÓ 2003. SZEPTEMBER



31. A LŐPORTÁR A TETŐSZERKEZET ELBONTÁSA UTÁN 1996. (ÉTELE KÖR 3045/B. SZABÓ KÁROLY)



32. A LŐPORTÁR A TETŐSZERKEZET ELBONTÁSA UTÁN 1996. (ÉTELE KÖR 3045/B. SZABÓ KÁROLY)

BME ÉPÍTÉSZETTÖRTÉNETI ÉS MŰEMLÉKI TANSZÉK

1111 BUDAPEST, MŰGYETEM RAKPART 3.

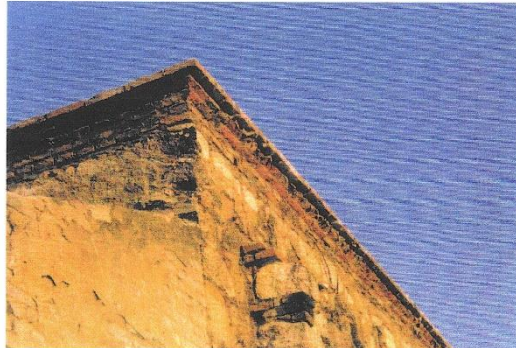
Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

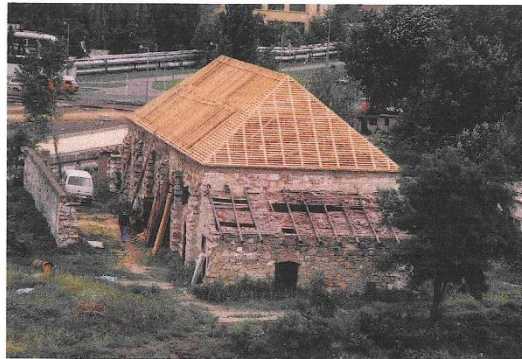
Specific Design Methodology in Case of Historic Monuments

4. Learning the history of the site, district... Studying photos on-site

BUDAFOKI ÚTI LŐPORTÁR MŰEMLÉKVÉDELMI TUDOMÁNYOS DOKUMENTÁCIÓ 2003. SZEPTEMBER



33. A LŐPORTÁR A TETŐ FELÚJÍTÁSA KÖZBEN. 1996. (ETELE KÖR 3045/B. KÓKAI-NACSA TANULMÁNY)



34. A LŐPORTÁR A TETŐ FELÚJÍTÁSA KÖZBEN. 1996. (ETELE KÖR 3045/B)

BME ÉPÍTÉSZETTÖRTÉNETI ÉS MŰEMLÉKI TANSZÉK

1111 BUDAPEST, MŰGYELEM RAKPART 3.

BUDAFOKI ÚTI LŐPORTÁR MŰEMLÉKVÉDELMI TUDOMÁNYOS DOKUMENTÁCIÓ 2003. SZEPTEMBER



37. A VOLT LŐPORRAKTÁR UTOLSÓ PERCEI AZ ÉPÜLETELEMOYÁR TERÜLETÉN. É. N. (FSZEK FOTÓTÁR. IPAR. XI. KER. BUDAFOKI ÚT 78. TEKNÓS MIKLÓS FELVÉTELE /NÉPSZABADSÁG/)



38. A TETŐFELÚJÍTÁS SORÁN, A TÉRFALBÓL KIBONTOTT KŐ 1713-AS ÉVSZÁMMAL. (ETELE KÖR 3045/B)

BME ÉPÍTÉSZETTÖRTÉNETI ÉS MŰEMLÉKI TANSZÉK

1111 BUDAPEST, MŰGYELEM RAKPART 3.

Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

4. Learning the history of the site, district... Studying photos on-site



BUDAPESTI MŰVELŐDÉSI ÉS MŰVELŐDÉSI TANSZÉK 1111 BUDAPEST, MŰVELŐDÉSI PARKPART 3.
BME ÉPÍTÉSZETI TÖRTÉNETI ÉS MŰVELŐDÉSI TANSZÉK 2003. Szeptember
BUDAPESTI MŰVELŐDÉSI ÉS MŰVELŐDÉSI TANSZÉK 1111 BUDAPEST, MŰVELŐDÉSI PARKPART 3.

Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design

Specific Design Methodology in Case of Historic Monuments

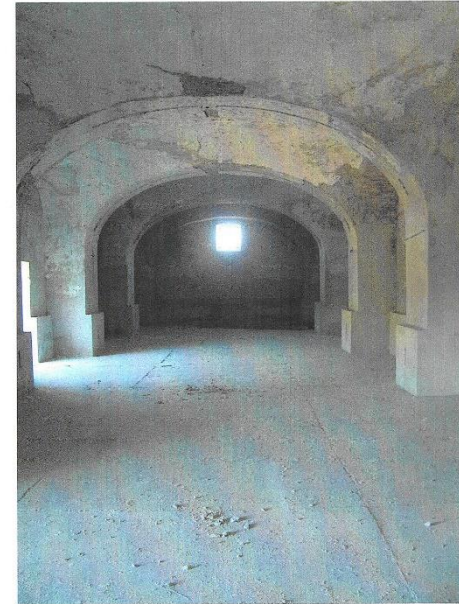
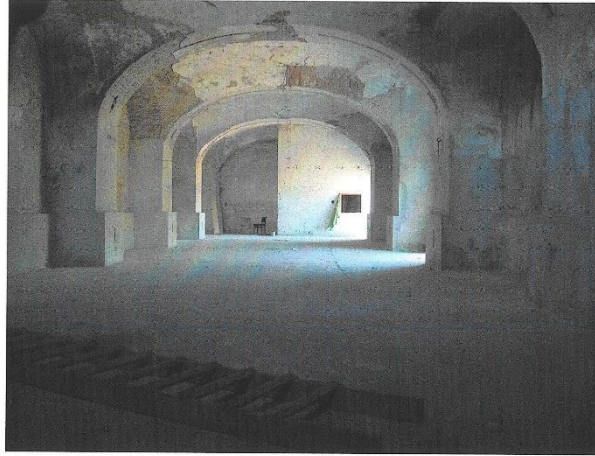
4. Learning the history of the site, district... Studying photos on-site



Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site

„Resuscitation” – Utilization of Abandoned Architectural Monuments – Interdisciplinary Design *Specific Design Methodology in Case of Historic Monuments*

4. Learning the history of the site, district... Studying photos on-site



Determining Historic Values of Historic Monuments
Case Study: Baroque Gunpowder store on a Southern Buda Site