

**New Amsterdam History Center  
Framework for a Virtual New  
Amsterdam  
Five Dutch Days Presentation**

**Marble Collegiate Church**

**November 17, 2007**

# Bringing New Amsterdam to Life

**Hosted by**

**New Amsterdam History Center**

**And**

**Marble Church**

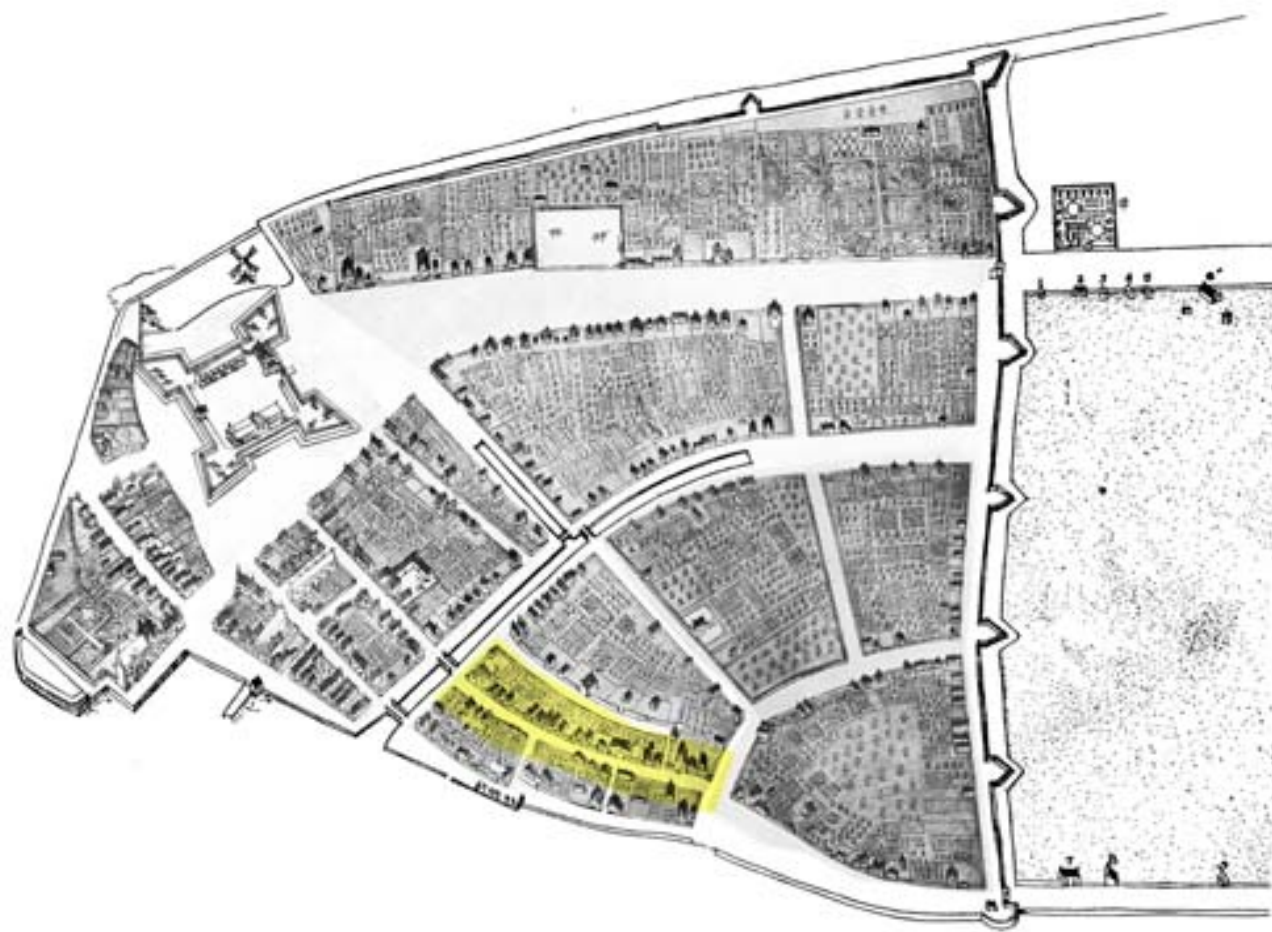




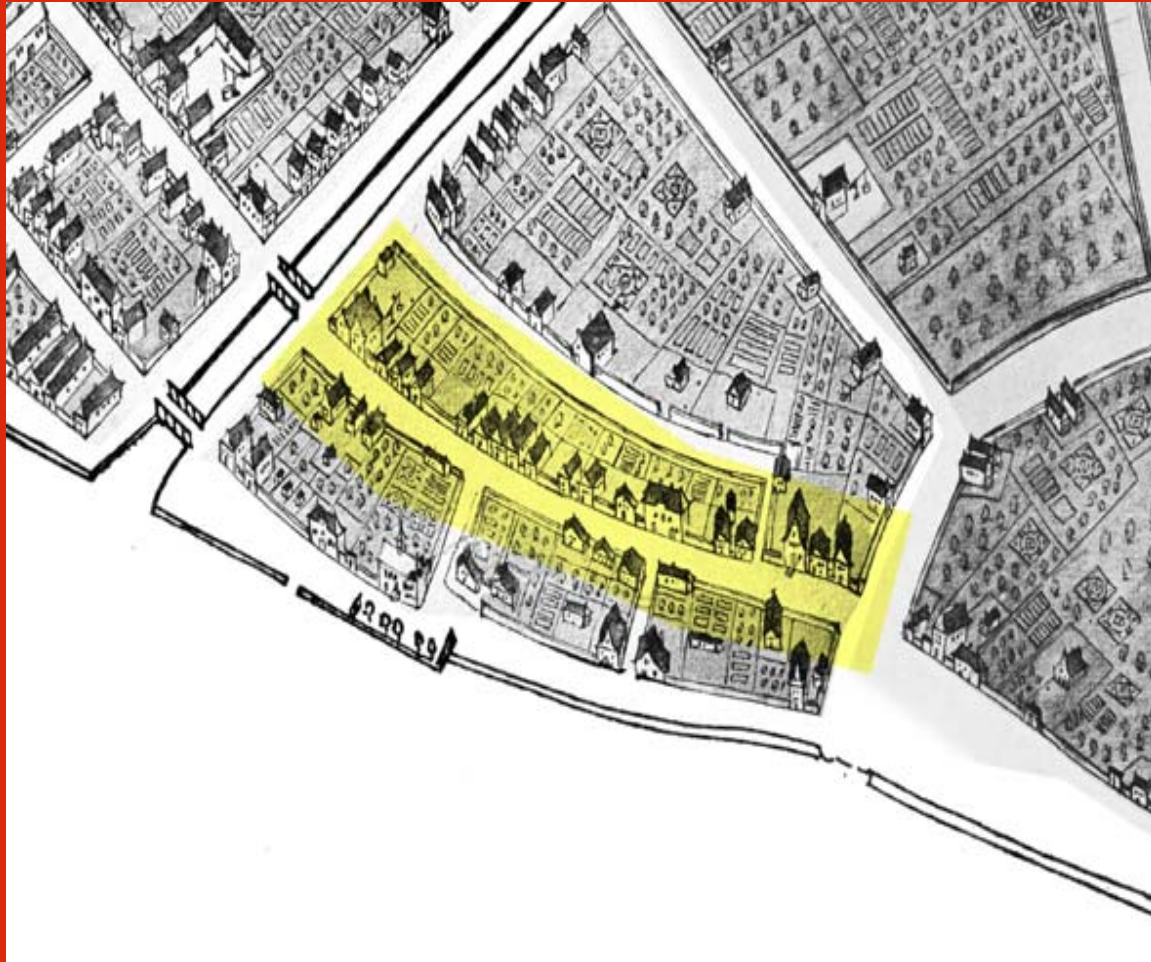












# Fundamental Questions

The fundamental questions at the heart of any geographic inquiry are:

- What?
- Where?
- Why?
- So What?



# WHAT?

New Amsterdam History Center's Virtual 3D  
New Amsterdam

# NAHC MILESTONES

- Began History Center Planning 9-04
- Received Commitment for History Center Space 11-04
- Hosted Visioning Session at LMCC 12-04
- Completed “Preservation for Partnership” 1- 05
- Generated Interest in New Netherland Museum (1988), Holland Society of New York (1885), New Netherland Institute (1975) and Collegiate Church Archives (1696) 2- 05
- Established Website [www.newamsterdamhistorycenter.citymax.com](http://www.newamsterdamhistorycenter.citymax.com) 3-05
- Submitted By-Laws, Constitution and Application for Provisional Charter to New York State Education Department 6- 05
- Selected Founding Board of Directors 6- 05
- Developed Business Plan 9- 05
- Received Provisional Charter 9-05
- Held First Official Trustees Meeting 10-05
- Submitted Grant Application to NY State 2-06
- Received NY State Grant Approval from ESDC 11-06

# NAHC Trustees

- Casey R. Kemper, C.O.O., Collegiate Church Corporation
- Christopher P. Moore, Jr., Ph.D., Research Coordinator, The Schomburg Center for Research in Black Culture and Member of the NYC Landmarks Preservation Commission
- William T. (Chip) Reynolds, Exec. Dir., The New Netherland Museum
- Andrew A. Hendricks, MD, President, The New Netherland Museum
- Jan Seidler Ramirez, Ph.D., Chief Curator, WTC Memorial Museum
- Esme Berg, Board Member, Shearith Isreal
- James R. Van Wagner, Jr., Holland Society Trustee
- Rev. Everett L. Zabriskie, III., Holland Society Trustee
- Charles W. Wendell, Ph.D., President, New Netherland Institute
- Kenneth H. Chase, Esq. Retired from Davis Polk & Wardwell

## ***Mission Statement:***

The New Amsterdam History Center encourages the public exploration of the early history of New Amsterdam and New York, its diverse peoples, landscapes, and institutions, and its legacy for all the peoples of the world today

# The History Center will encourage an exploration of:

- The expansion of European commerce around the globe
- The rich geography, ecology, and natural history of this part of North America
- The cultures and life-ways of native American peoples, and their relationships with newcomers from Europe and Africa
- The politics and economics of colonial development in the 17th century
- The impact of New Netherland on the development of American society, law, politics, and culture



# *The Vision*

A history center that serves as a jumping-off point for explorations of New York's history



## *The Vision*

Educational outreach for  
electronic field trips,  
study visits, walking  
tours, internships and  
public forums

## ***The Vision:***

An exhibit gallery and reading room on Dutch colonial history, with a bookstore and a coffeehouse serving Dutch cuisine

# *The Vision*



Accommodation  
for  
collaborative  
tall ships and  
other visiting  
ships















MAEN

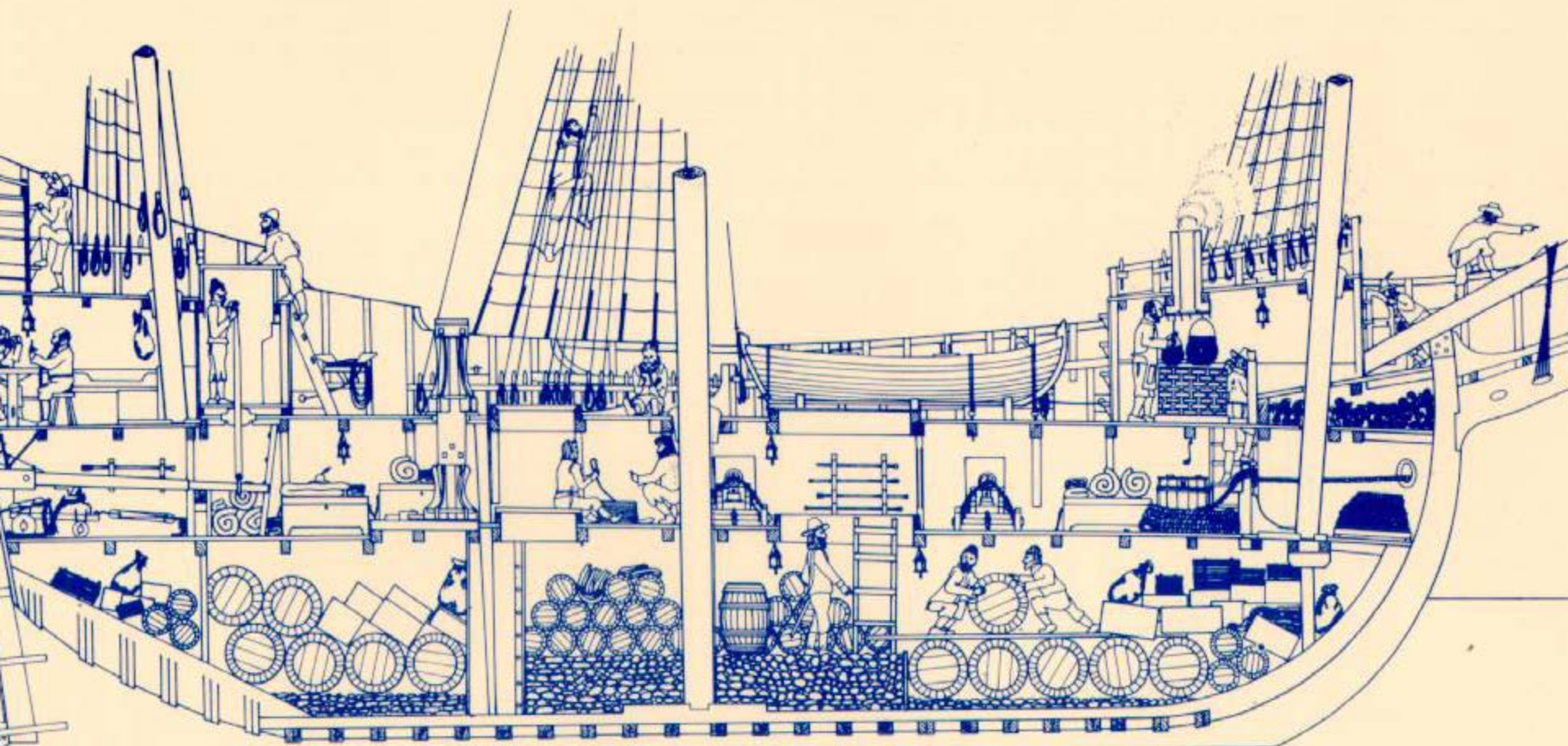
SECTIONAL & INTERIOR ARRANGEMENT

11

1' ENGLISH

1988

ING GANG *Handwritten signature*









# *The Vision*

An annual fund raising  
event featuring a festival  
of Dutch history

# Virtual New Amsterdam

- **The 3D Virtual Concept**
- **Preliminary Historical Digital Model**
- **Archival Guidelines**
- **New Netherland**
- **New Amsterdam, the Hub of New Netherland**
- **The Dutch Home and Aspects of Domestic Life within the Colony**
- **Thematic Summaries**

# NAHC Website Wants/Needs

- To place the documentary evidence in the hands of non-Dutch reading American Scholars, Students, Residents and Tourists
- Make source material about Dutch impact on colonial history more accessible
- Promote wider audience for NAHC
- Use state of the art technologies

# WHERE?

New Netherland Starting with New  
Amsterdam's History and Settlement  
Patterns



# SANITARY & TOPOGRAPHICAL MAP



of the City and Island of

## NEW YORK

Prepared for the Council of Hygiene and Public Health

of the **CITIZENS ASSOCIATION.**

under the direction of

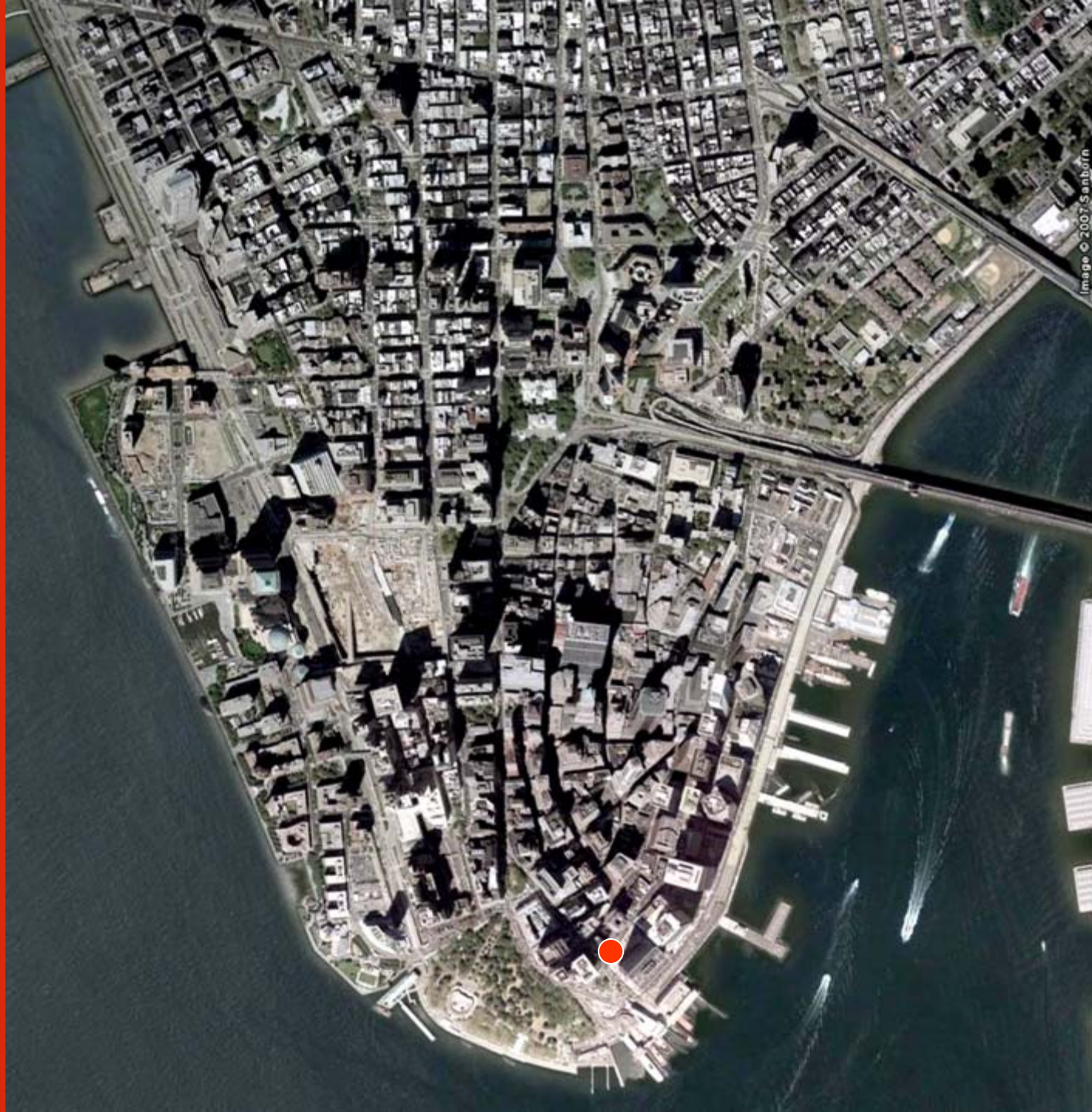
EGBERT L. VIELE,

Topographical Engineer.

SCALE 1000 FEET TO INCH.















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**3D Topographic Reconstruction of  
17th C. Manhattan, New York  
Grossman 2007**



**Topography and  
Hydrology of the  
City of New York  
Viele 1865**



**Modern Air Photo of  
Lower Manhattan,  
New York  
Google Earth, 2007**



# SANITARY & TOPOGRAPHICAL MAP



## NEW YORK

Prepared for the Council of Hygiene and Public Health

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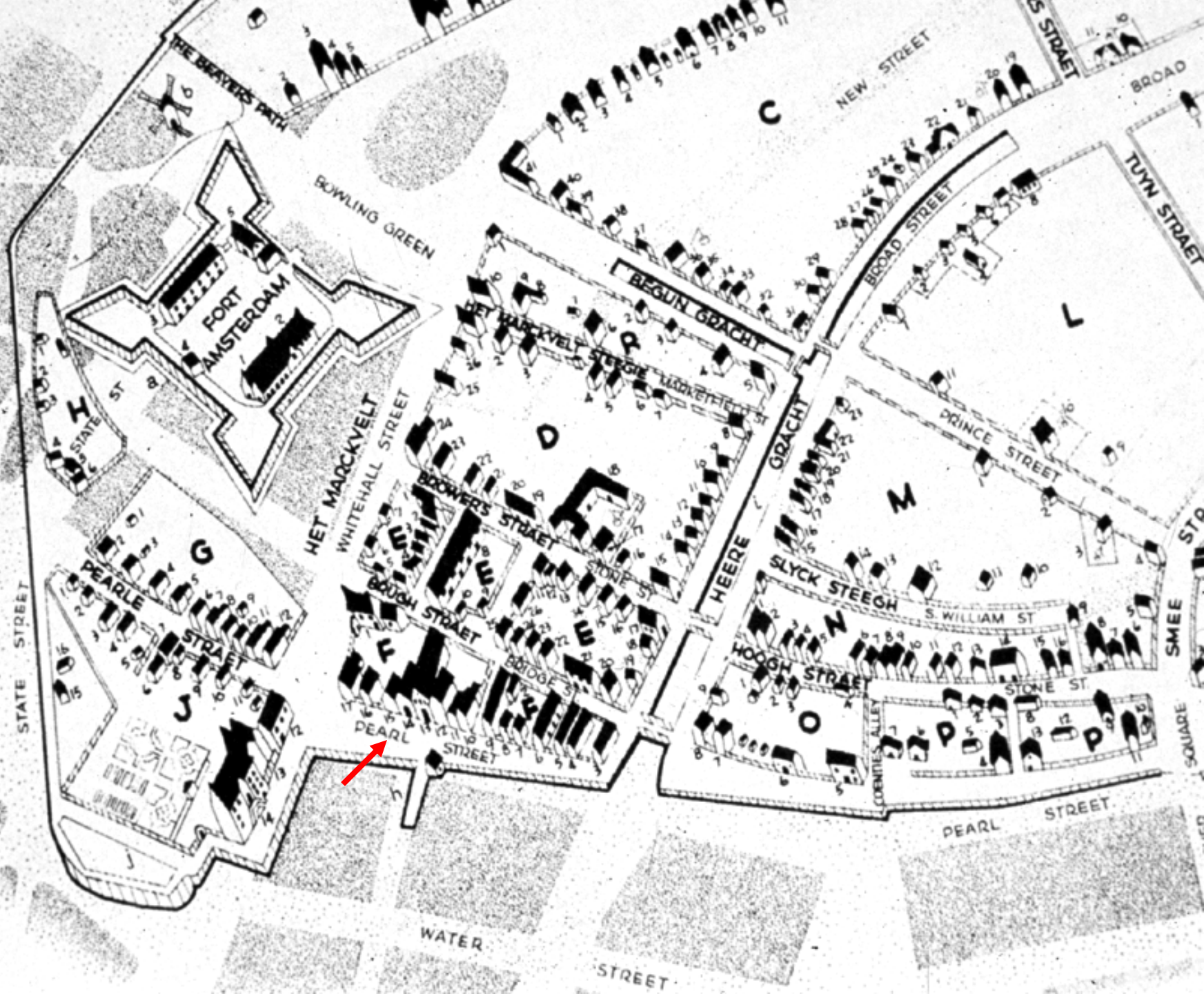
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EGBERT L. VIELE.

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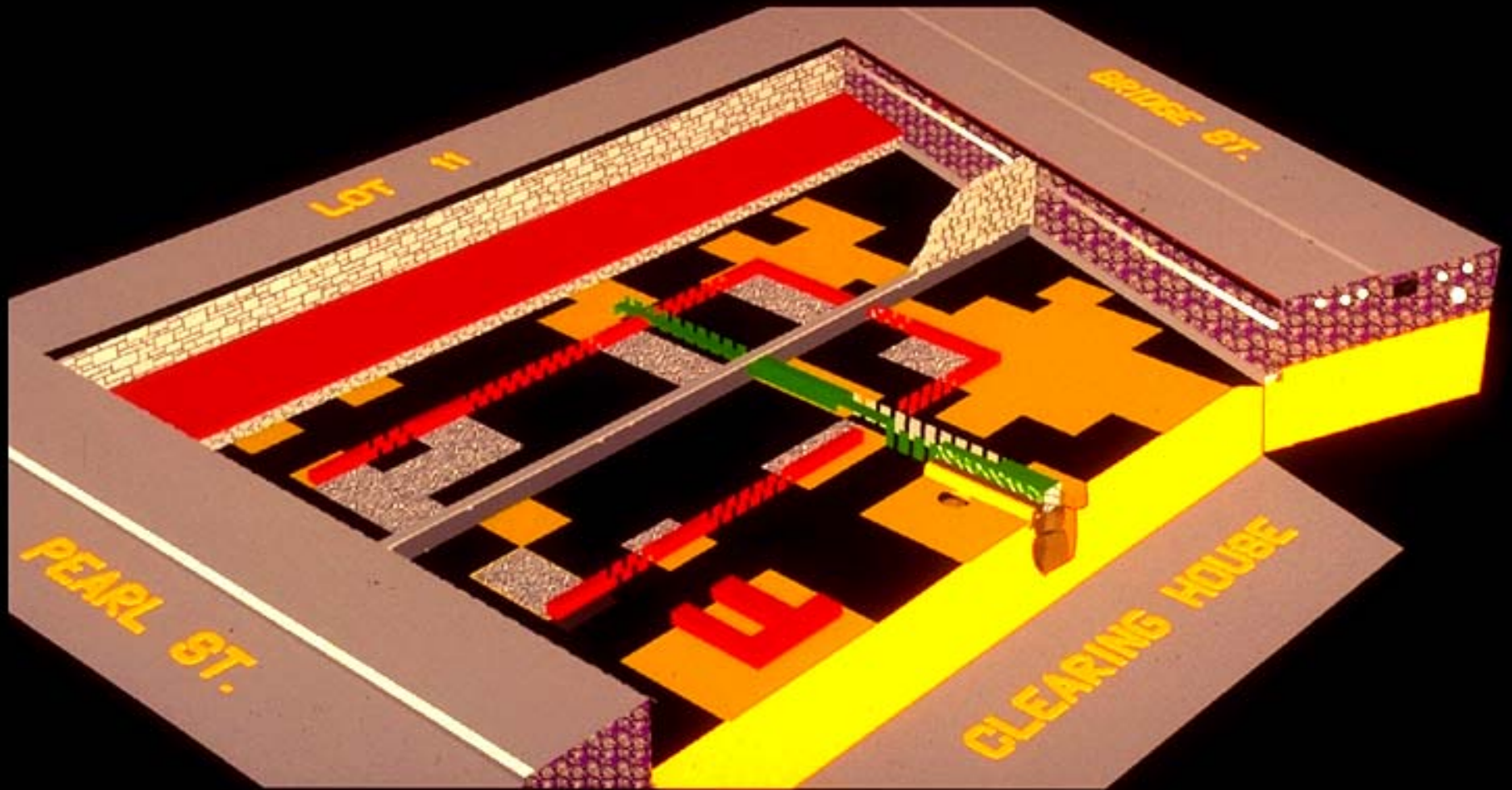




19<sup>th</sup> Century Cement/Brick  
Basement floor, over  
"Green Clay" of 17<sup>th</sup> Century  
Manhattan



Cobble Floor of  
Agustine Heerman's  
1653 Warehouse



3D Model of Buried 17<sup>th</sup> Century Building and Lot Walls

Dutch West India Company – New York





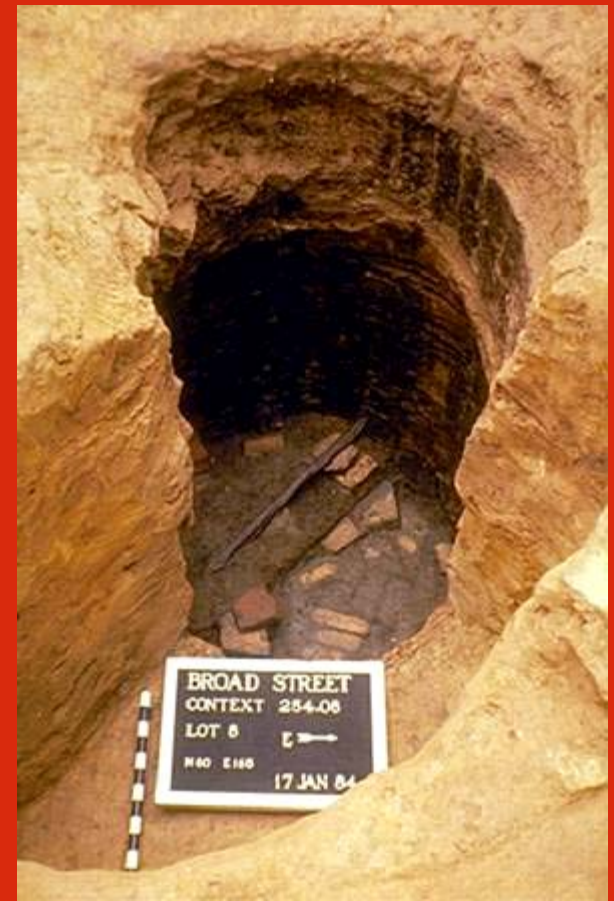
17th Century Foundations &  
Beam slots

*Secretary Cornelius van Tienhoven*  
1653

*17th Century Double-Barrel Cistern/Well?*

*Secretary Cornelius van Tienhoven*

1653



BROAD STREET  
CONTEXT 254.08  
LOT 6  
N40 E180  
17 JAN 84



Dutch West India Company Site – New York – 1650-1680





New York City's Earliest Dutch Key, Augustine Heerman's Warehouse,  
Dutch West India Company Site, Pearl Street, New York – 1650-1680

# THE DUTCH WEST INDIA COMPANY

PEARL STREET, LOWER MANHATTAN, NEW YORK



Excavated by the author in 1983 from the Cobblestone Floor of Agustine Heerman's 1650 warehouse on the former colonial shoreline of Pearl Street in New Amsterdam. This 1590 Dutch Token represents the earliest archaeologically controlled Dutch coin yet discovered in the Americas. It was issued by Prince Maurice of Nassau (b. 1567 d. 1625) to celebrate his election as a Stadholder of the City of Utrecht (Broad, Cmp-6, Cx. 135 (TPQ 1650), Grossman et. al. 1985, Plate VIII-2)



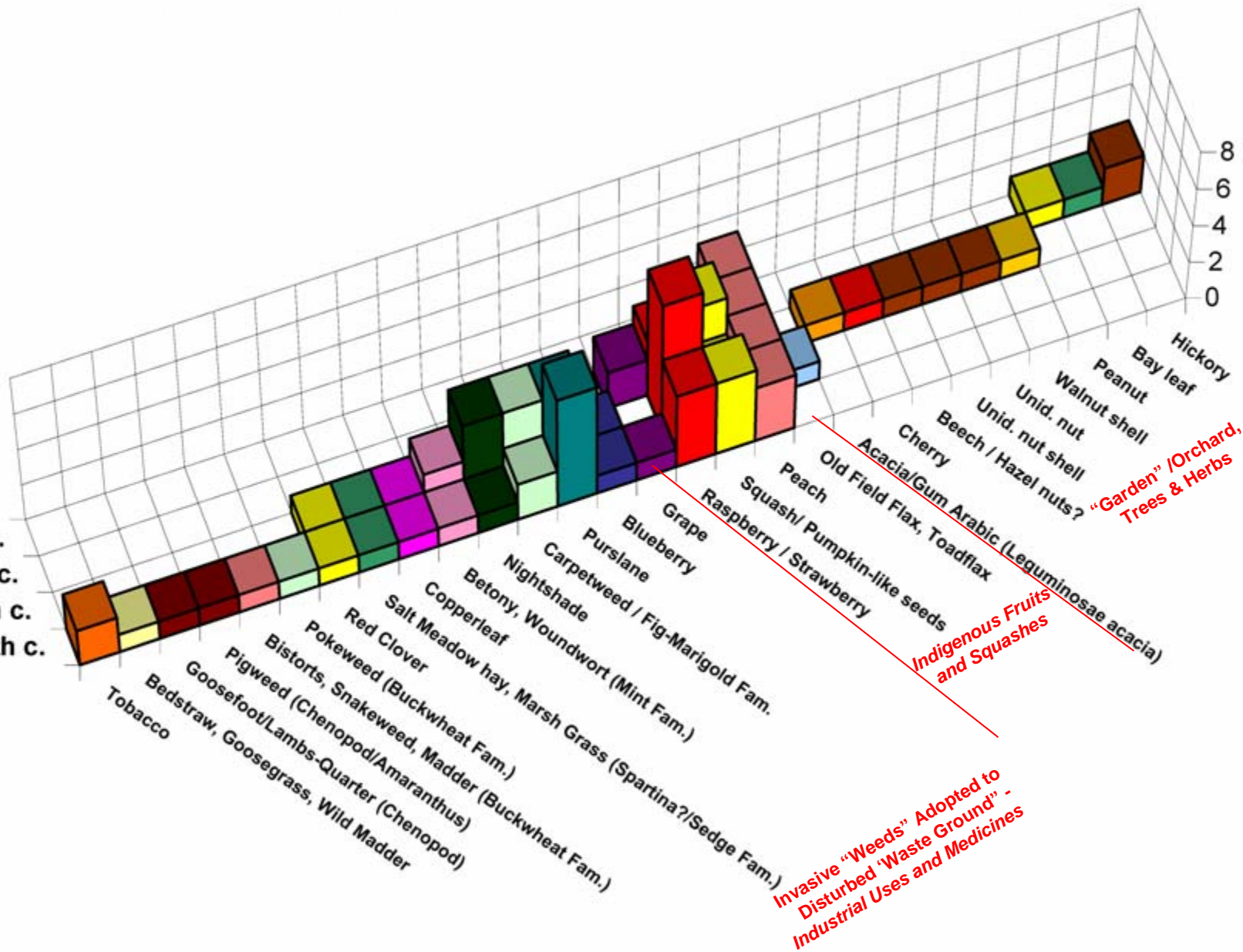
*Rim line*



cm.

Late Woodland "Eastern Incised"  
Indigenous Rim Sherd (ca 13 -  
17th century). From post-1650  
double barrel Cistern/Well in Sec.  
Tienhovens rear lot, Pearl Street,  
Manhattan (*Grossman et. al, 1985,*  
*Plate X-F3-Bottom*).

Early 19th c.  
Early 18th c.  
Late 17th c.  
Mid. 17th c.





# Mid-17th C. Flowering Medicinal and Dye Plants from the Dutch West India Company Site at Pearl Street, Lower Manhattan, New York



Bistort -  
"Lady's Thumb" -  
1650



Toad Flax  
1680



Betony -  
"Woundwort"  
1680



Lambs-quarters -  
Pigweed  
1650





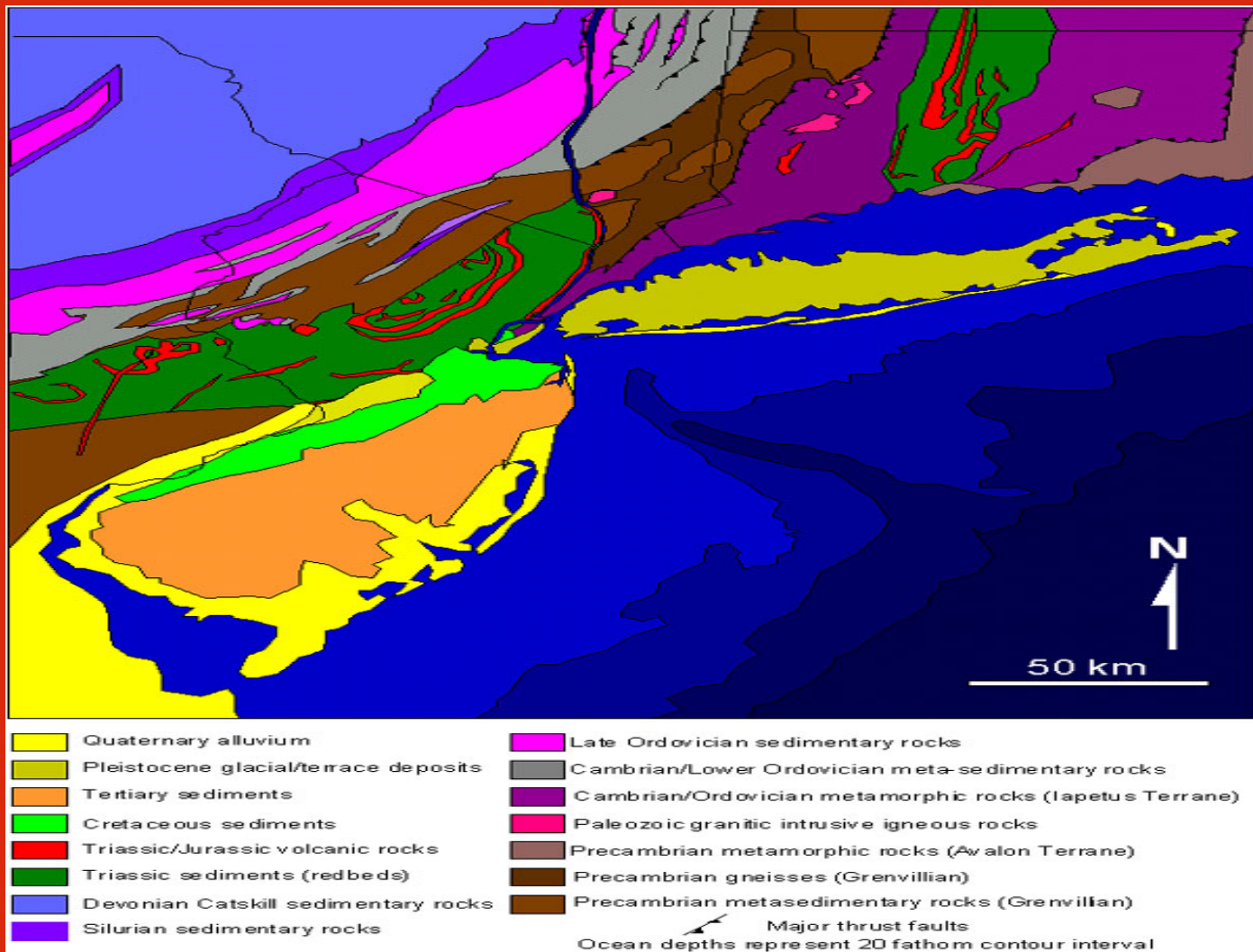


# Geologic Time Scale for NYC

**GEOLOGIC TIME SCALE FOR NEW YORK CITY AREA**

	<b>Holocene</b> *0.01	10,000 years ago to present Human Invasion/modern sea level rise
	<b>Pleistocene</b> 1.6	Several major glacial advances into the New York region from Canada
<b>TERTIARY</b>	<b>Pliocene</b> 5	"global cooling begins ~16 million YBP <i>"Age of Mammals"</i>
	<b>Miocene</b> 24	
	<b>Oligocene</b> 37	Many Transgressions and Regressions of the sea across the Coastal Plain
	<b>Eocene</b> 58	
	<b>Paleocene</b> 66	
<b>MESOZOIC</b>	<b>Cretaceous</b> 144	Modern Coastal Plain develops Modern river systems begin to organize Massive Reefs along continental shelf
	<b>Jurassic</b> 208	<i>"Age of Dinosaurs"</i> Atlantic Ocean invades northward along spreading rift system
	<b>Triassic</b> 245	Newark Basin "Palisades Disturbance"
	<b>Permian</b> 286	Alleghenian Orogeny affects the Valley & Ridge Region of East Coast
<b>PALEOZOIC</b>	<b>Pennsylvanian</b> 320	
	<b>Mississippian</b> 360	Coal Swamps and "first reptiles"
	<b>Devonian</b> 406	<i>"Age of Fishes"</i> Acadian Orogeny affects Northeast
	<b>Silurian</b> 438	<i>"Age of Land Plants begins"</i>
	<b>Ordovician</b> 505	Taconic Orogeny affects Northeast
	<b>Cambrian</b> 570	<i>"Age of Early Invertebrates"</i>
	<b>PRECAMBRIAN</b>	1.2 billion - oldest rock in NY region "Grenville Orogeny" affects East Coast *4.6 billion - Earth "forms" in solar nebula (*million of years before present)

# Geologic Map of the New York Region

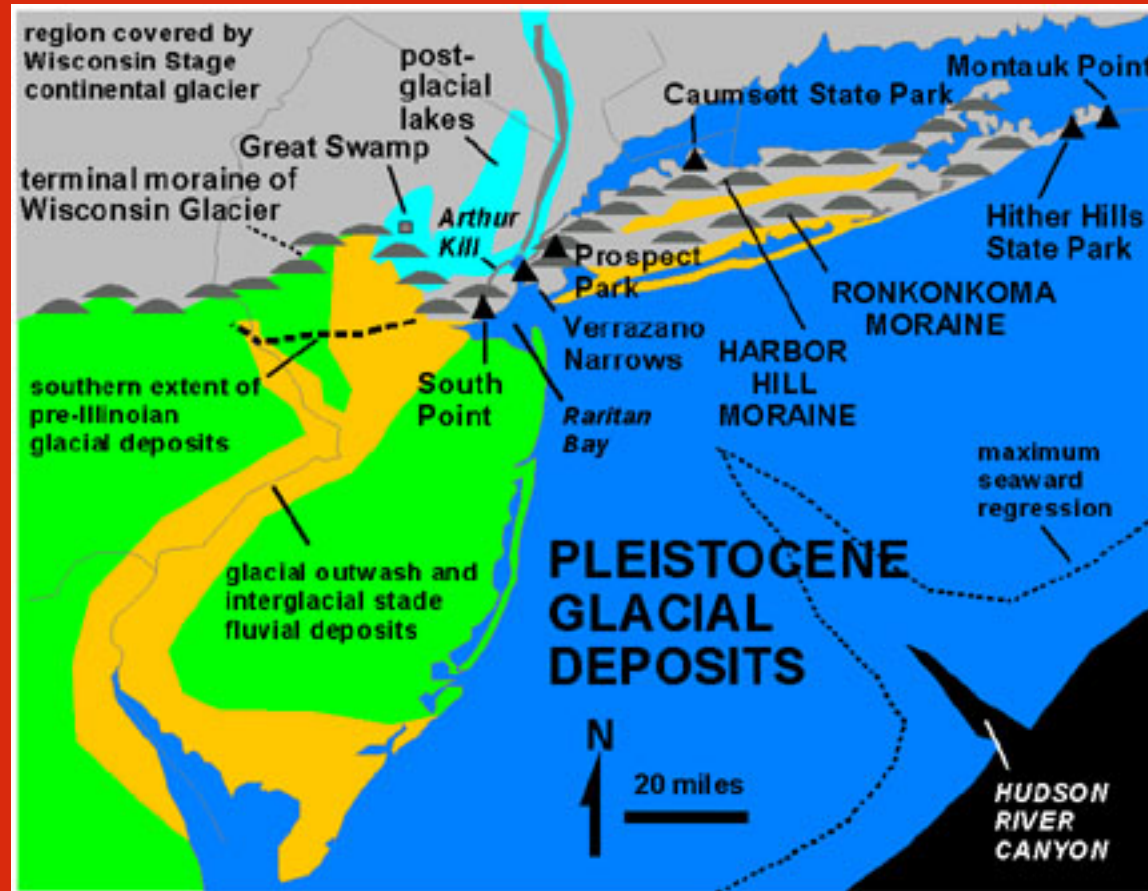




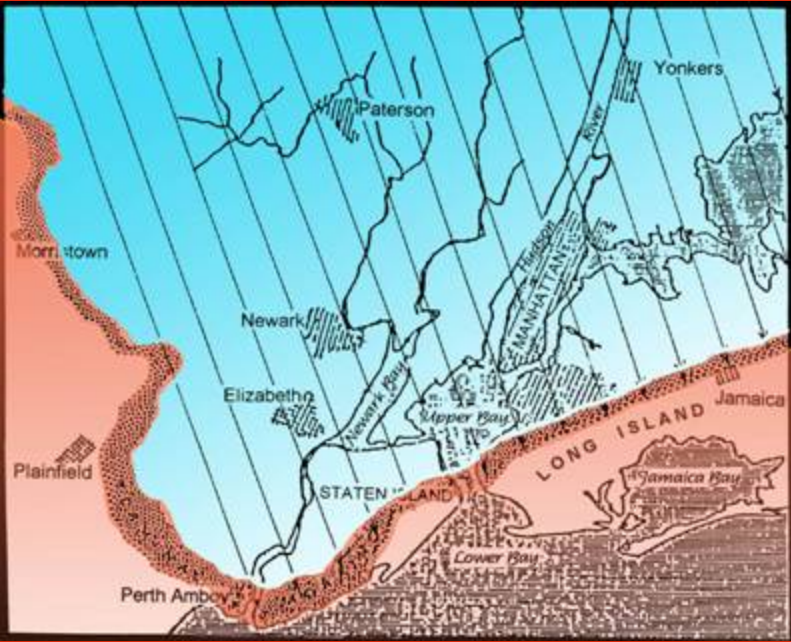
# The Highlands Province



# Pleistocene glacial deposits and features in the New York City region.

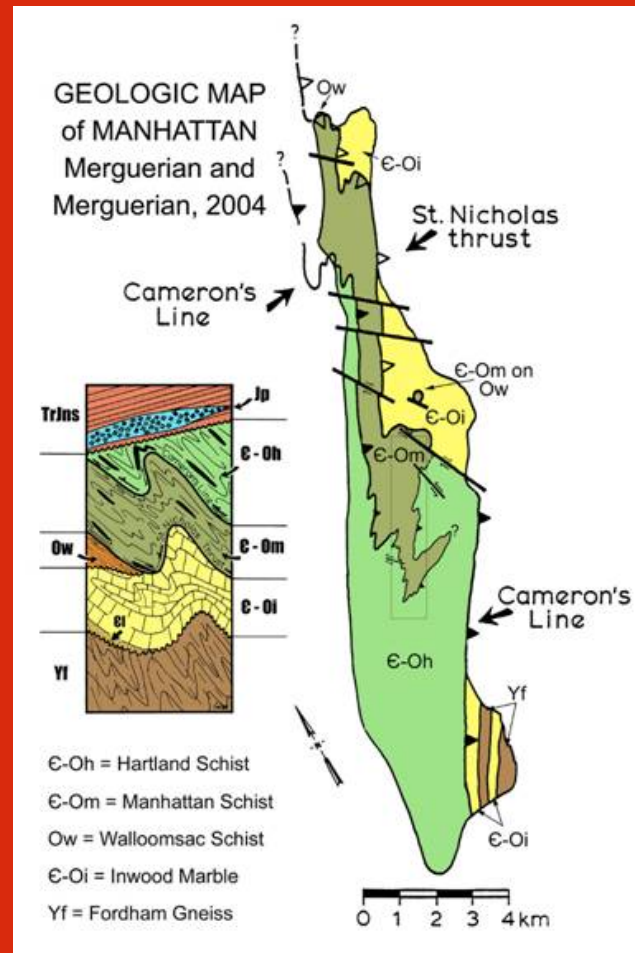


# Glacial Ice Flow





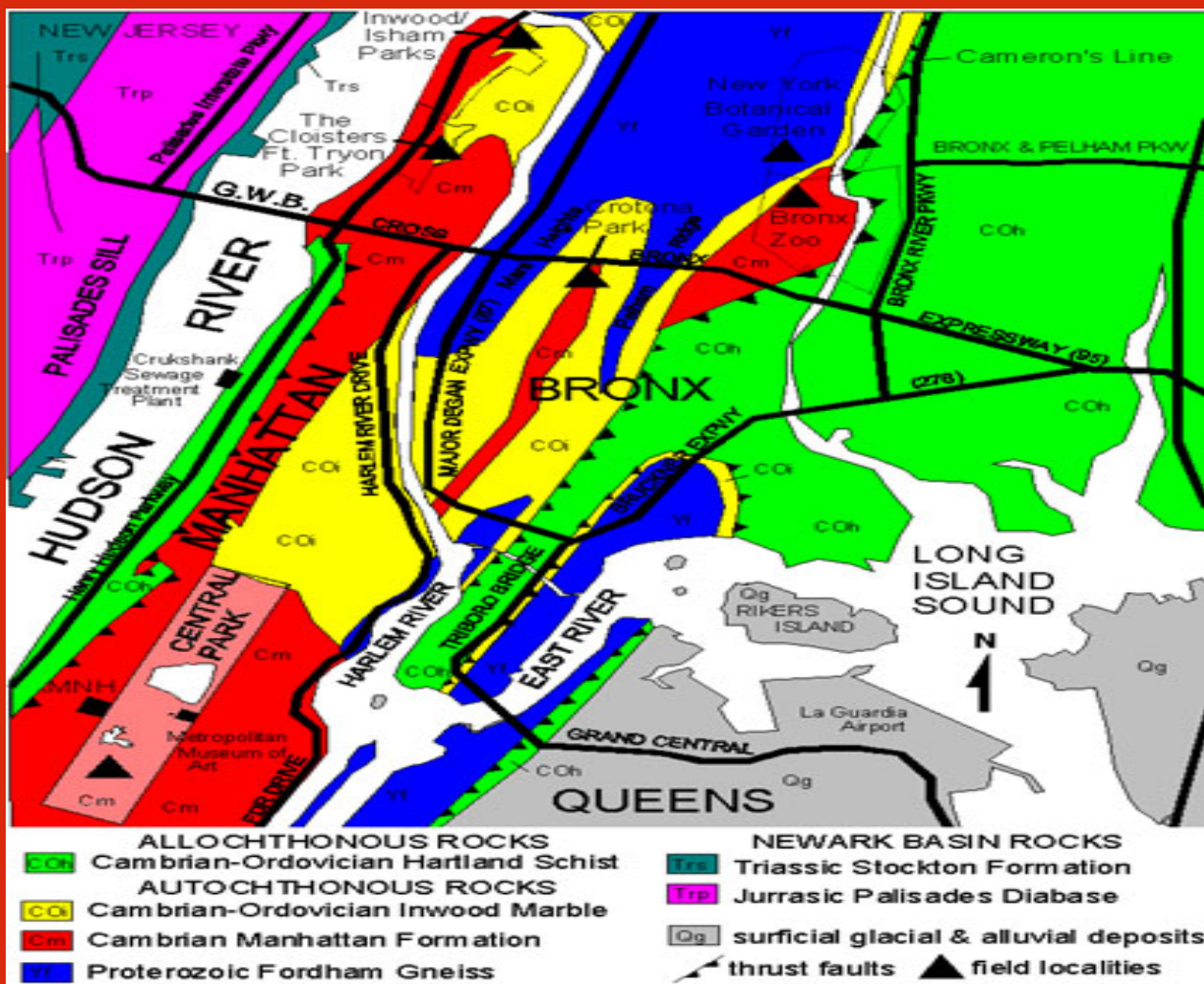
# Bedrock Map of Manhattan



A view of a glacial scoured outcrop of gneiss and schist of the Manhattan Formation exposed by The Lake on Central Park's west side.

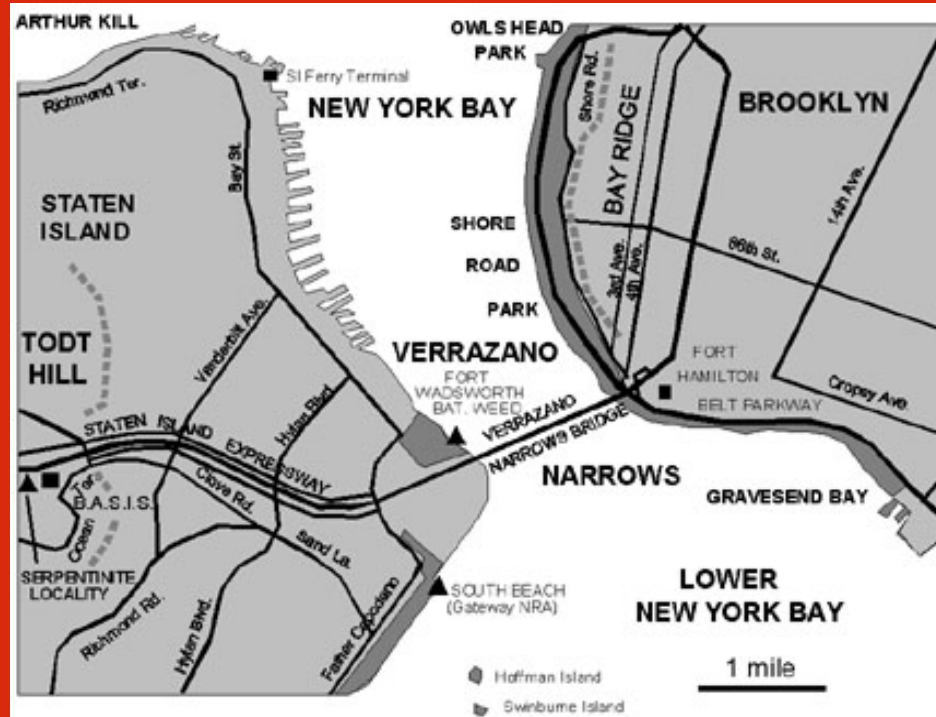


# The complex geology of Manhattan Island





# Map of the Verrazano Narrows area (Brooklyn and Staten Island)



(modern population ~20,000,000)

1898 AD - Charter incorporating five boroughs to NYC

1785-1790 AD - New York is US capitol

1776 AD - "Independence Day" (area population ~200,000)

1702 AD - Consolidation of NY from separate colonies

1664 AD - British capture New Amsterdam, now New York

1626 AD - Peter Minuit "buys" Manhattan from Algonquians

1624 AD - "Fort Orange" (Albany) settled by Dutch

1609 AD - Henry Hudson sails up the Hudson River

1570 AD - League of the Iroquois is established

(native population ~ 40-50,000 in region)

1524 AD - Giovanni da Verrazano sails into NY Harbor

~1,300 AD

"3rd Algonquian Period" - Iroquois culture established

~950 BC - 1,300 AD

"2nd Algonquian culture" - major influence by Ohio  
Valley Mounds and Woodlands cultures

~2000 BC (4,000 YBP - "Years Before Present")

"Archaic Period" - (1st Algonquian Period)

Tidewater communities with agriculture

~6,000 - ~8,000 YBP "Altithermal" - warm period

~8,000 - ~10,000 YBP "Younger Dryas" - cool period

"Era of Big Game Hunters"

(Folsom and Clovis-style points found in NYC area)

Beginning of Holocene Epoch

~10,000 YBP

End of Pleistocene Epoch

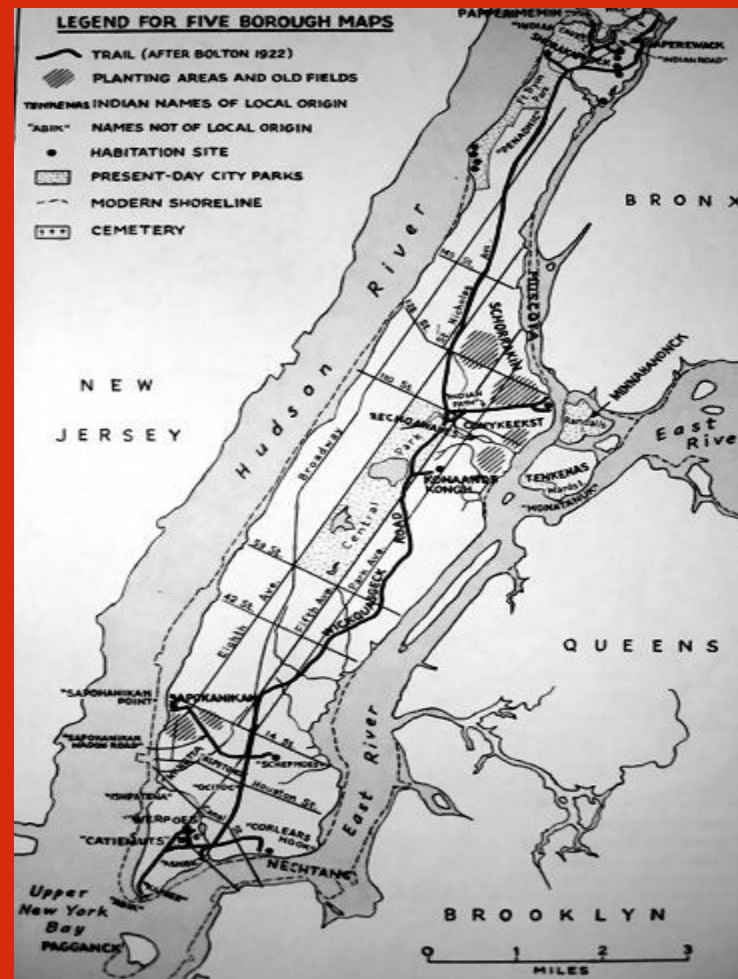
Rapid extinction of large land vertebrates possibly related  
to early human activity in addition to climate change.

# Lenapehoking Region





# Indians on Manhattan Island





Imagining New Netherland: 1614-1776

# Lower Manhattan 1609







# Fort Orange



Fort Orange 1635

NIEUW AMSTERDAM  
*of t Eylant Manhattan*





# Allard - Totius Neobelgii Nova et Accuratissima Tabula







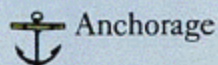
*Afbeeldinge van de Stadt Amſterdam in Nieuw Nederland.*





j: PRINCE GRACHT.  
 k: BEGIJN GRACHT.  
 l: HOOGH STRAET.  
 m: PAEREL STRAET.  
 n: TUYN STRAET.  
 o: HEERE DWARS STRAET.

q: BRUGH STRAET.  
 r: STADT HUYS LAAN.  
 s: HET MARCKVELT STEEGIE.  
 t: HET BEVER PAD.  
 u: BROUWER STRAET.



Anchorage



Schreijer's Hoek

the *City of New Amsterdam*  
 on the *Island of Manhattan*  
 in the *Colony of New Netherland*. Anno 1660









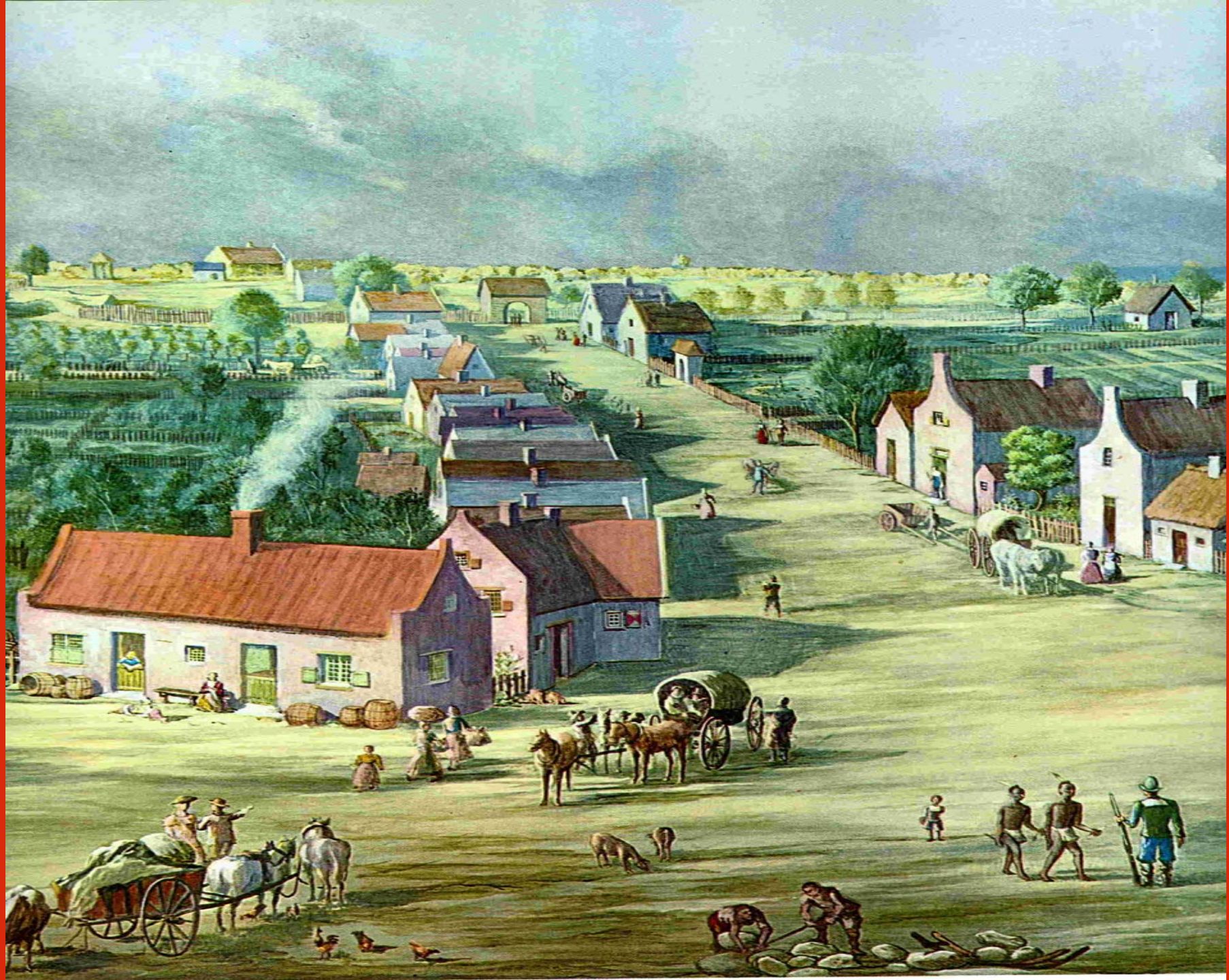


















# The Weigh House





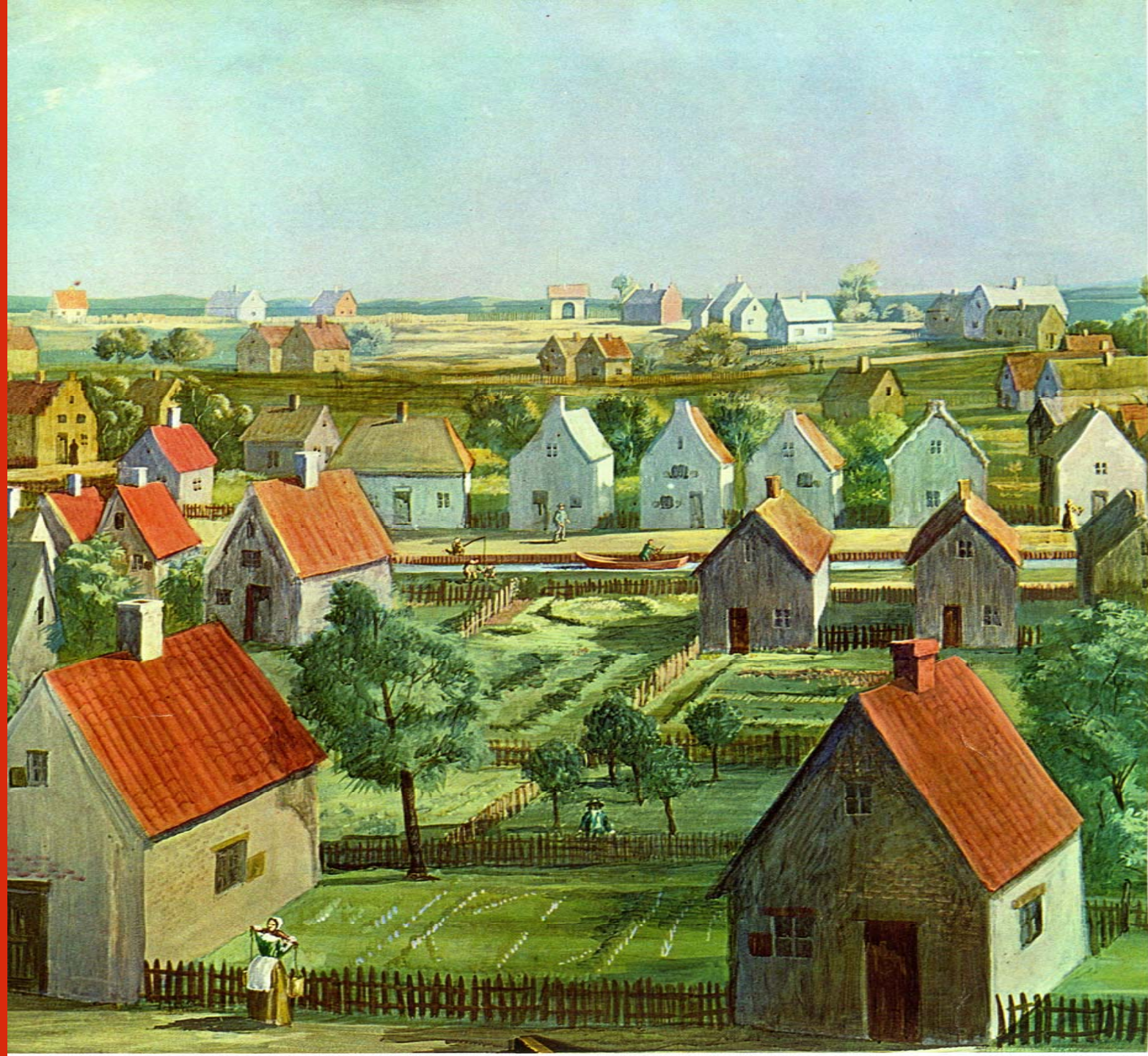
# Peter Stuyvesant House











Printed in Holland by Joh. Everaert on Zwaart. Houtden. Published by the Museum of the City of New York. All rights reserved.

GLUE HERE

ERE

# WHY?

New Netherland Starting with New  
Amsterdam's History and Settlement  
Patterns



# **Virtual New Amsterdam 3D Imaging Development Team**

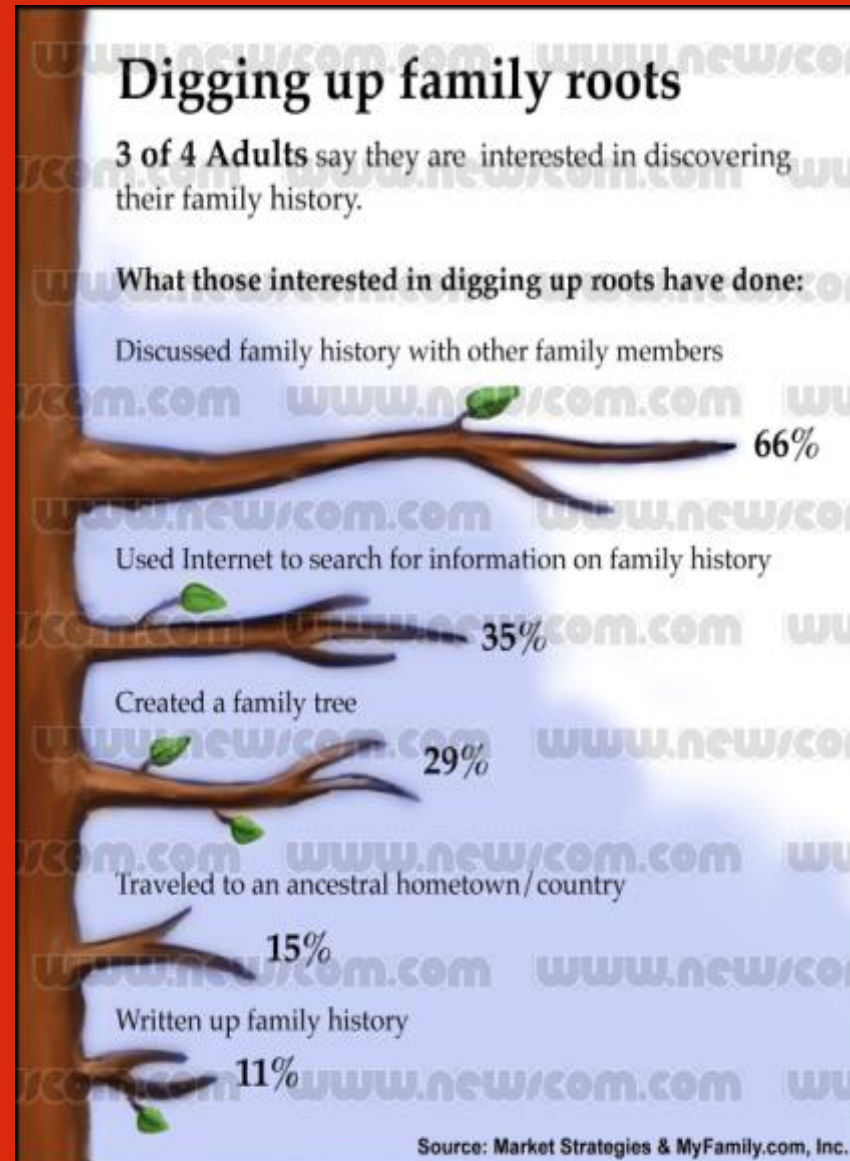
**Courtney A. Haff, AICP, Ph.D.**  
**Haff Associates, Inc.**  
**Project Director**

**Charles Gehring, Ph.D.**  
**New Netherland Content Consultant**

**George Janes, AICP, Environmental Simulation Center**  
**3D Platform and Data Base Management**

**Len Tantillo, Advisor**  
**Visual Consultant**

# New Netherland Family History





# NAHC Fund Raising Approach

- Model After Ellis Island Wall of Honor
- Family Name and Dutch House Image
- Begin with 300 Family Names of New Amsterdam
- Estimate 20-30 Million Families in America  
Can tie their Genealogy to the 1500 New Netherland Family Names and Houses at the “Center of the World”

# Dutch House Digital Development Process

- Begin with the 300 Family Names From Castello Plan and from David Riker Research
- Start with the Castello Plan Data Sources of the Stokes Iconography of Manhattan
- Employ NY GIS Base Map with Hyperlinks
- Generate Family Tree from Holland Society Applications
- Develop Dutch House 3D Images



# Exhibit Themes

- Arrival of the People
- Life in a Cold Climate
- The Changing Environment
- Changing Lifeways
- A Dutch Village
- Dutch Daily Life
- Indian Life during the Dutch Period
- African American Life in New Netherland
- Life in New Amsterdam

# New Netherland Life Ways

- Building a Fort
- Building the Wall and Other Infrastructure
- Clothing
- Transportation
- Commerce and Trade
- Governance and Land
- Early Agriculture
- Harvesting Crops
- Making a Meal
- Making Ceramics



# The Dutch Household

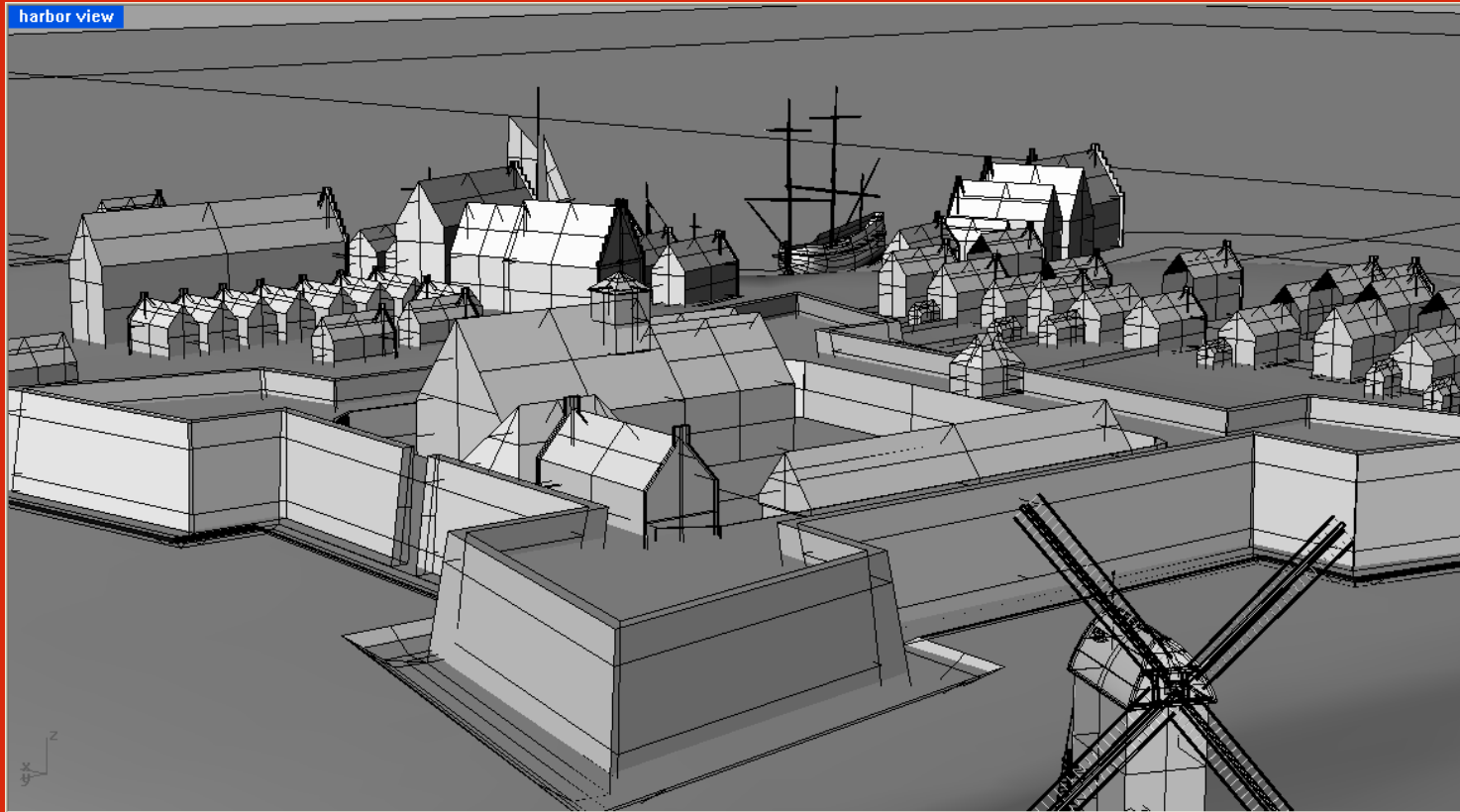
- Building a Home
- Clothing
- Transportation
- Ordinances and Laws
- Commerce and Trade
- Dutch Gardens Early Agriculture
- Making Beer and Tobacco
- Making a Meal
- Making Ceramics
- Society Today

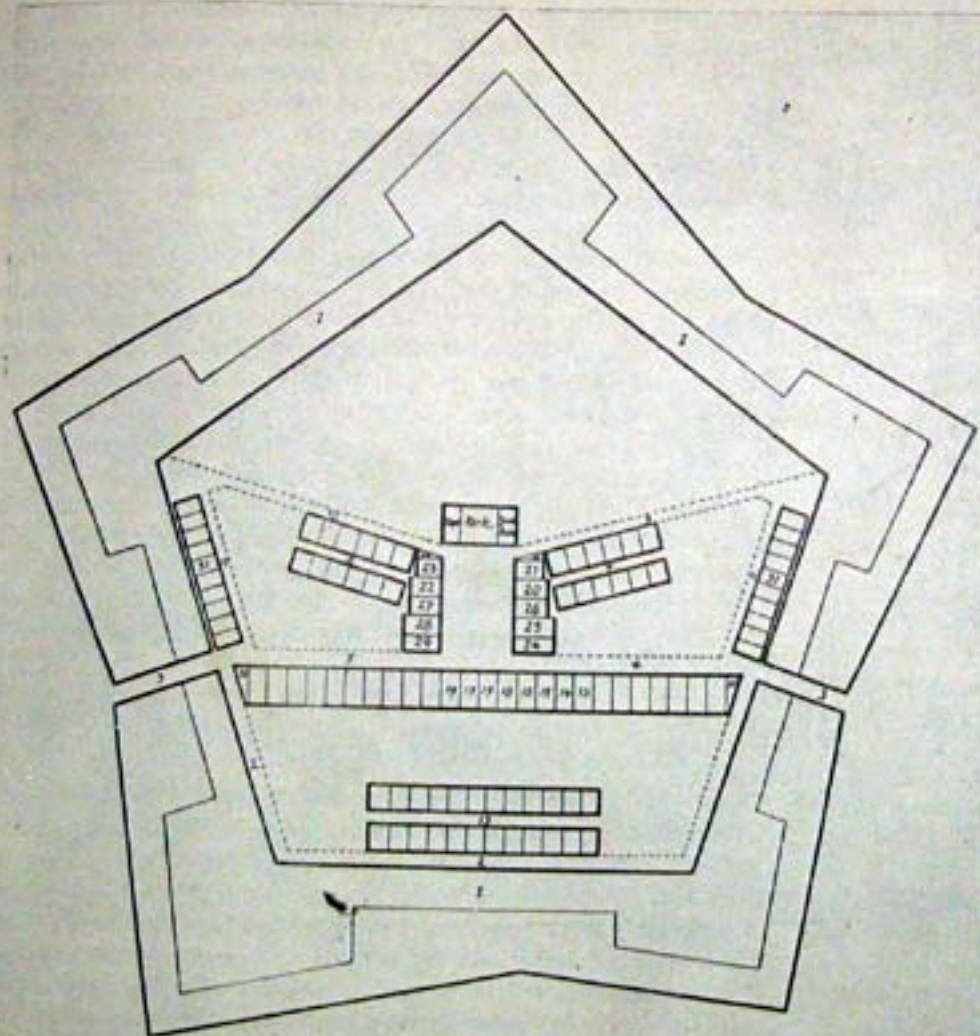
# **New Amsterdam Society and Culture**

- **Lenape Indian Communities**
- **First European Settlements**
- **The Early Fur Trade**
- **Why the Europeans Came**
- **The Impact of the European Migration**
- **Aftermath of the Early Dutch/Indian Wars**
- **Dutch West India Land Grants**
- **Land Losses and Land Gains**
- **African Americans, Huguenots and Jews**
- **Stages of Development**
- **Early New Amsterdam Governance**



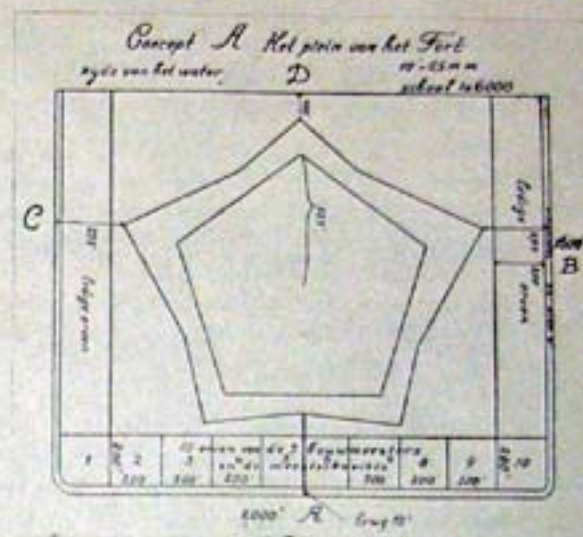
harbor view



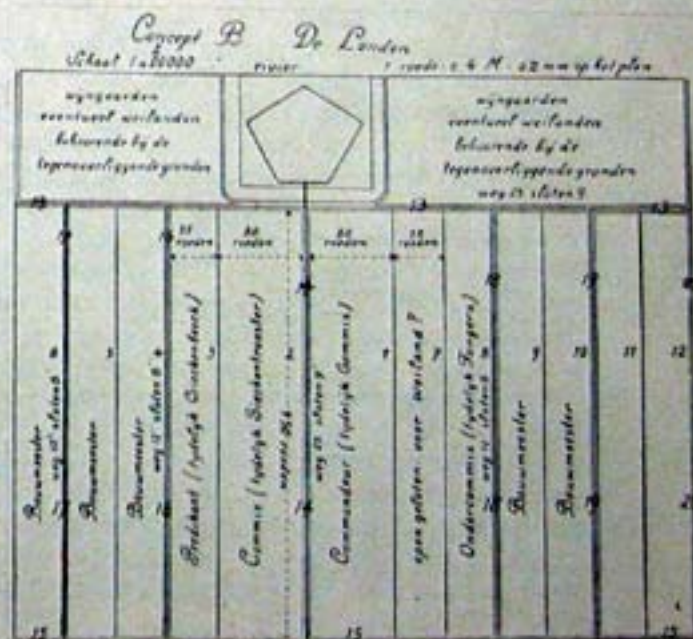


CONCEPT C. HET FORT.

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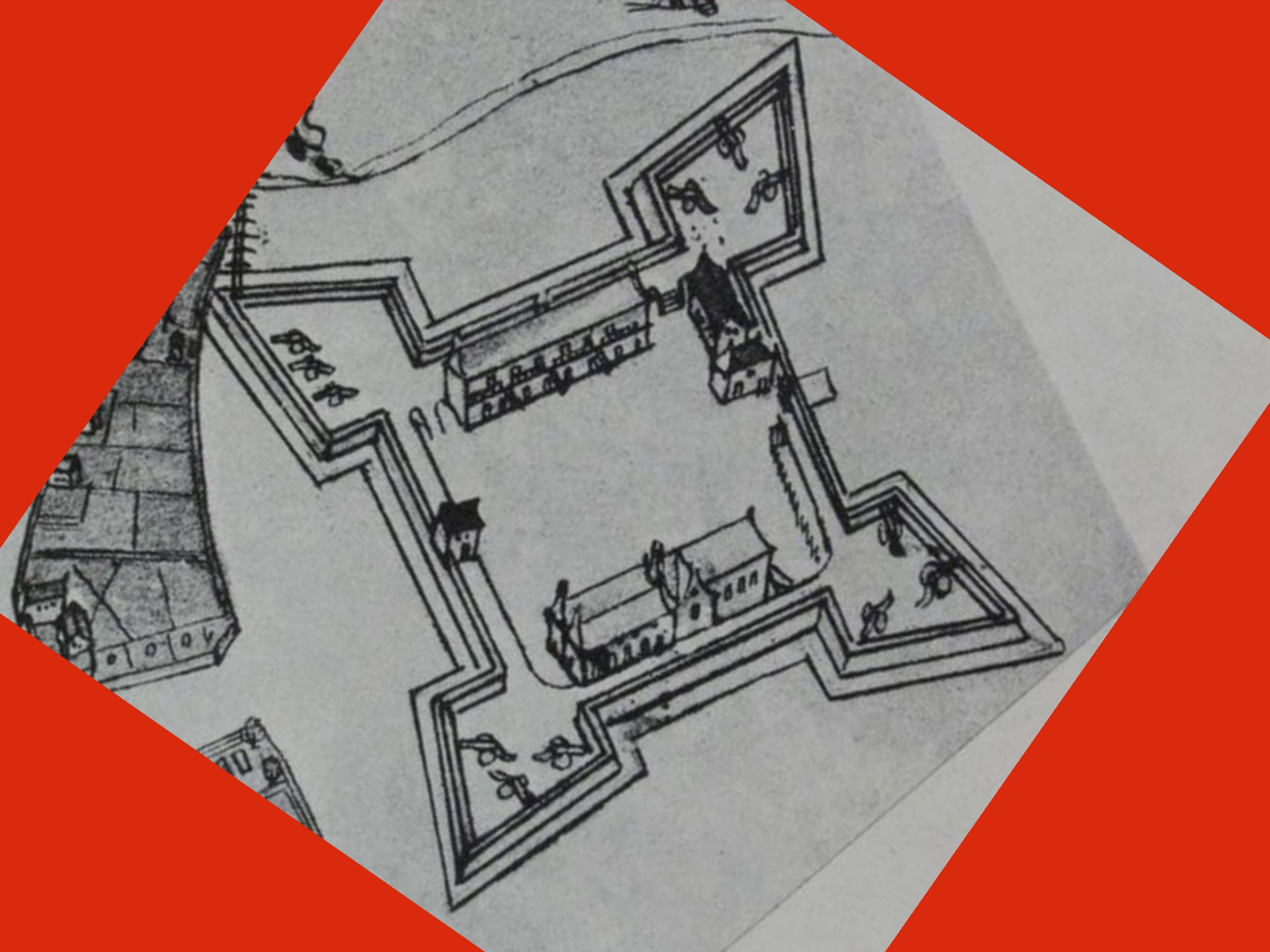


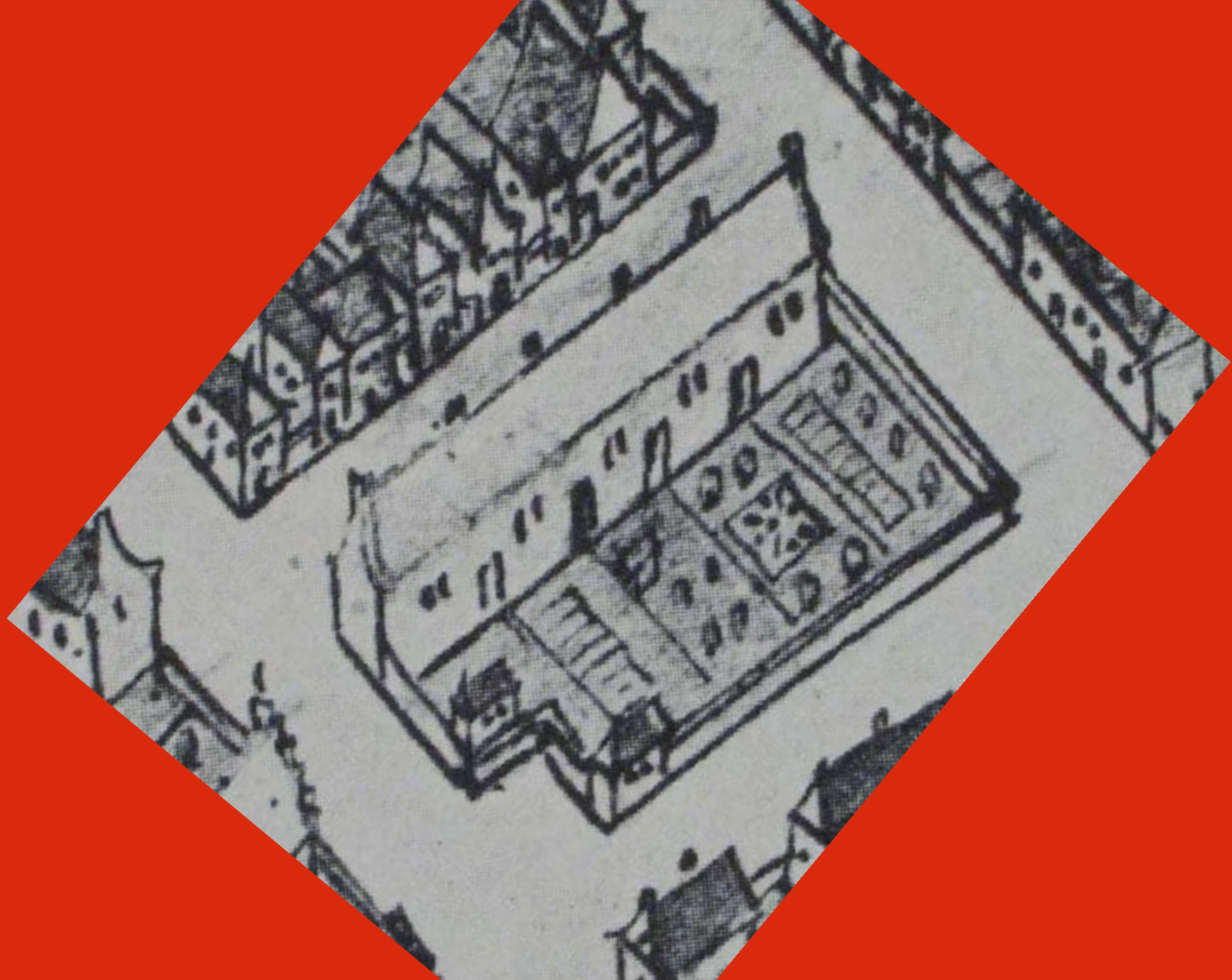
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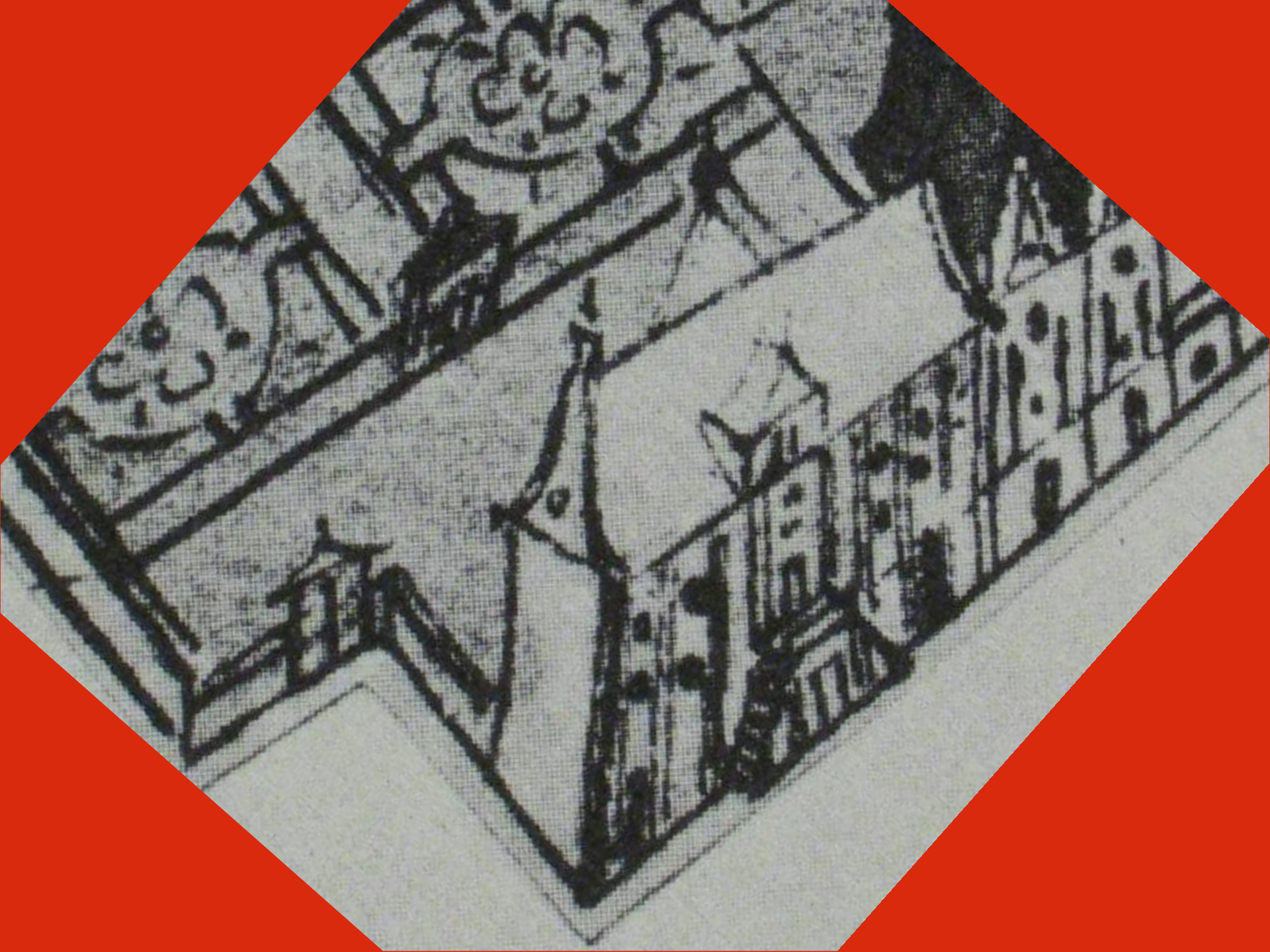




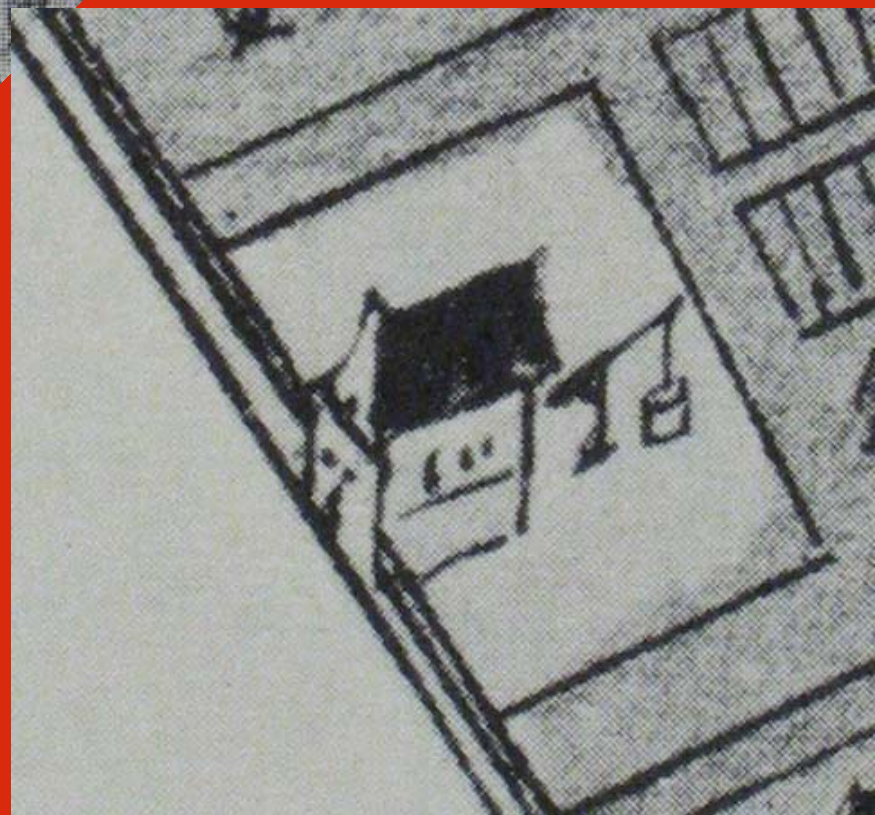
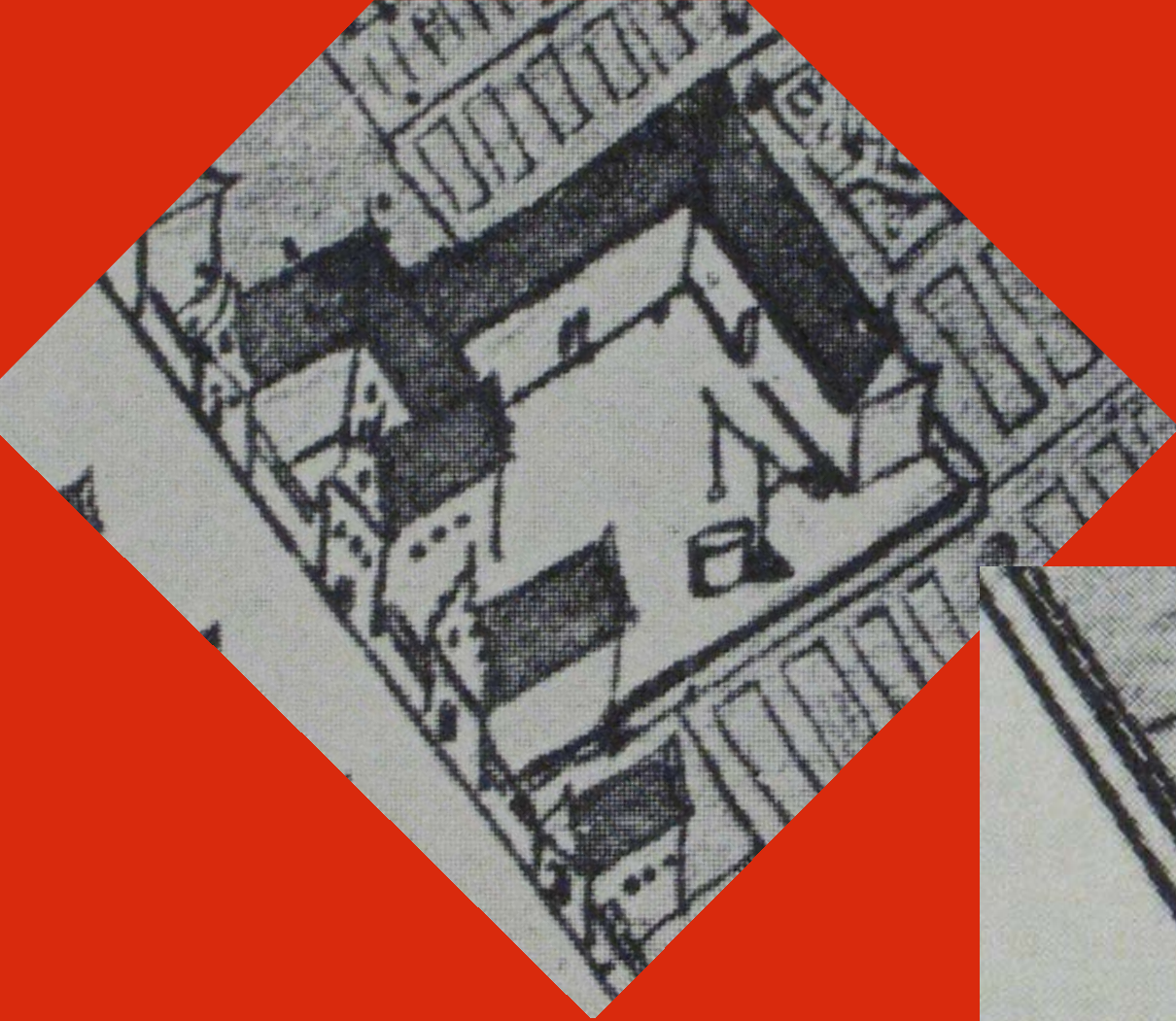






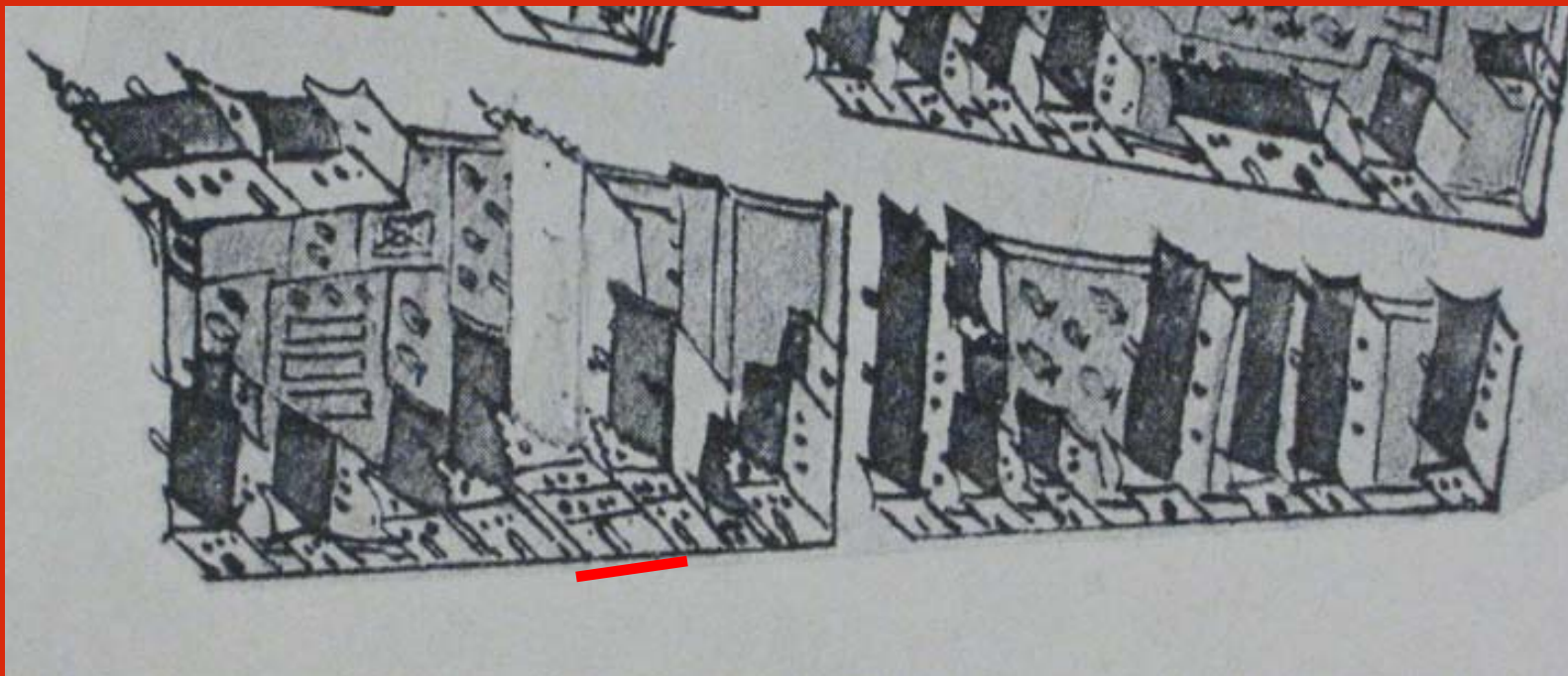








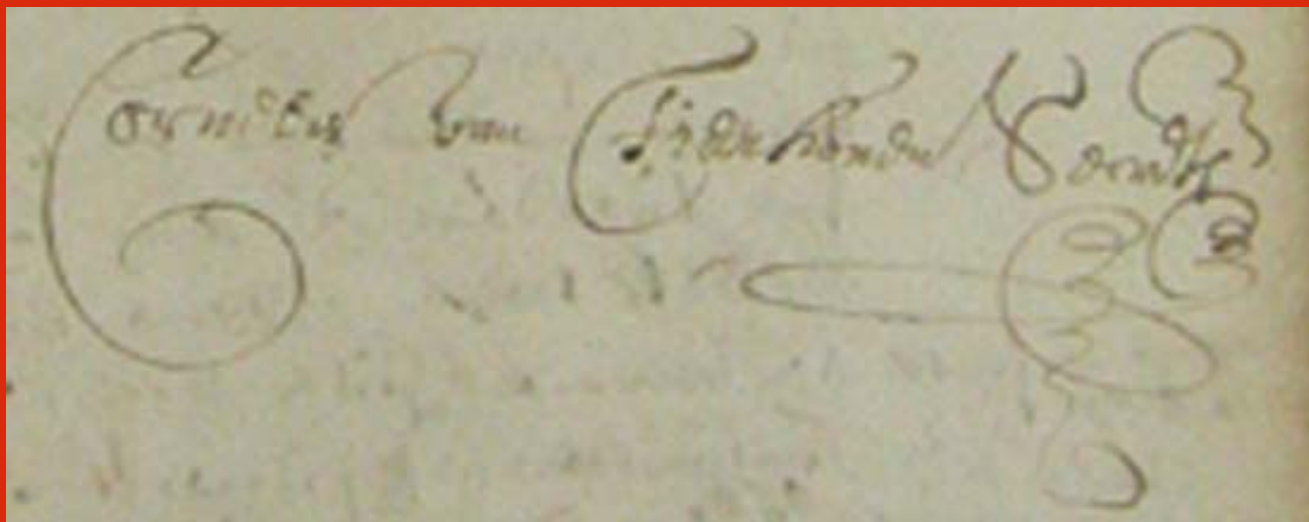








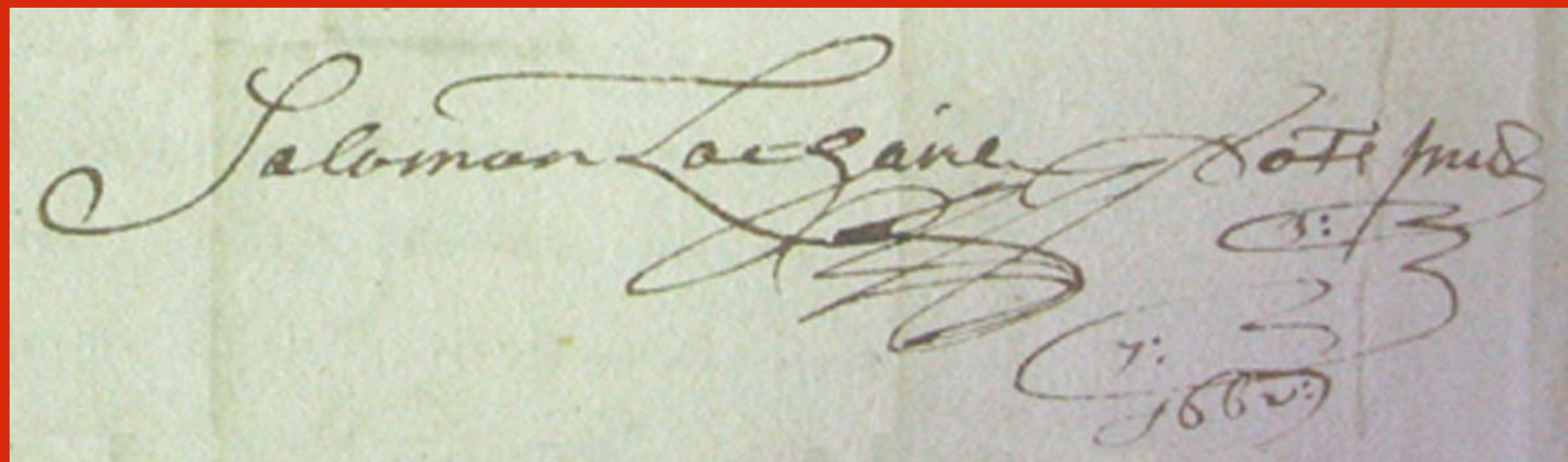




Cornelis van Tienhoven Secretary

A handwritten signature in dark ink on aged, slightly textured paper. The signature is written in a cursive style, with the first letter 'C' being particularly large and ornate. The text is somewhat faded and difficult to read, but the words 'Cornelis van Tienhoven' are discernible. Below the signature, there is a large, decorative flourish or seal.

Cornelis van Tienhoven Secretary



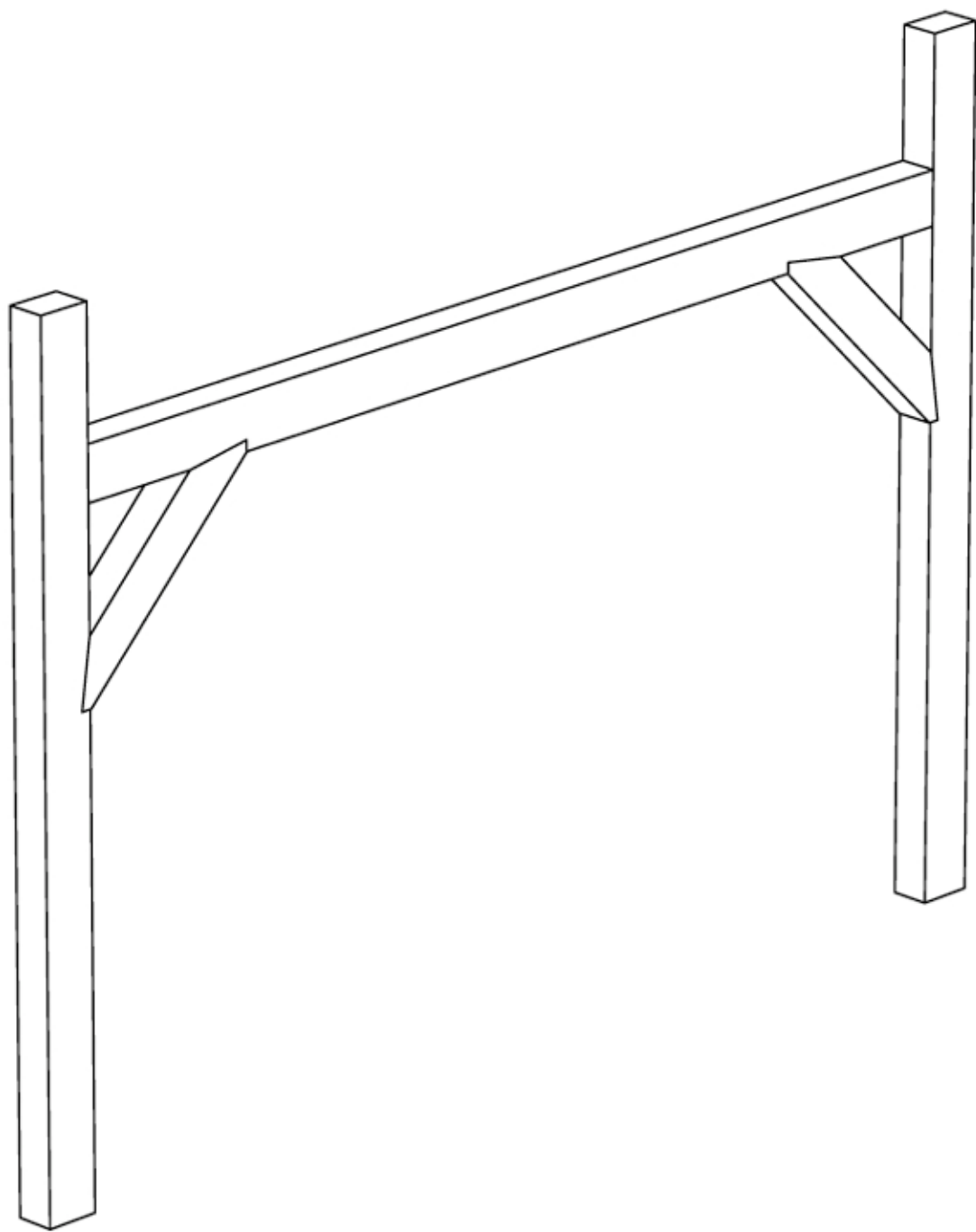
Salomon Lachaire Notary Public

A handwritten signature in dark ink on aged, slightly textured paper. The signature is written in a cursive style, with the first letter 'S' being particularly large and ornate. The text is somewhat faded and difficult to read, but the words 'Salomon Lachaire' are discernible. Below the signature, there is a large, decorative flourish or seal. To the right of the signature, the words 'Notary Public' are written in a smaller, more formal script. Below this, there is a date '1865' and some other markings.

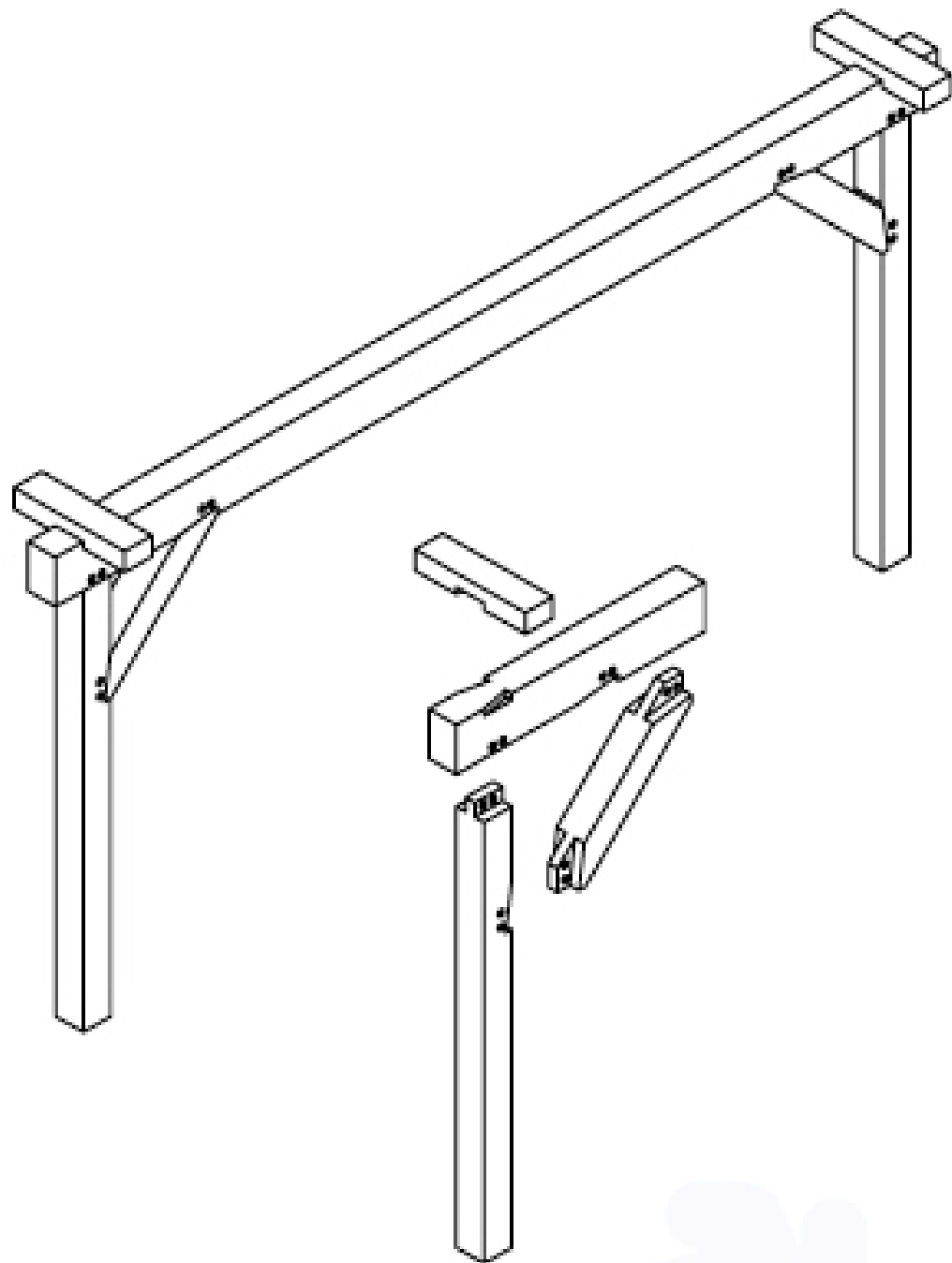
Salomon Lachaire Notary Public

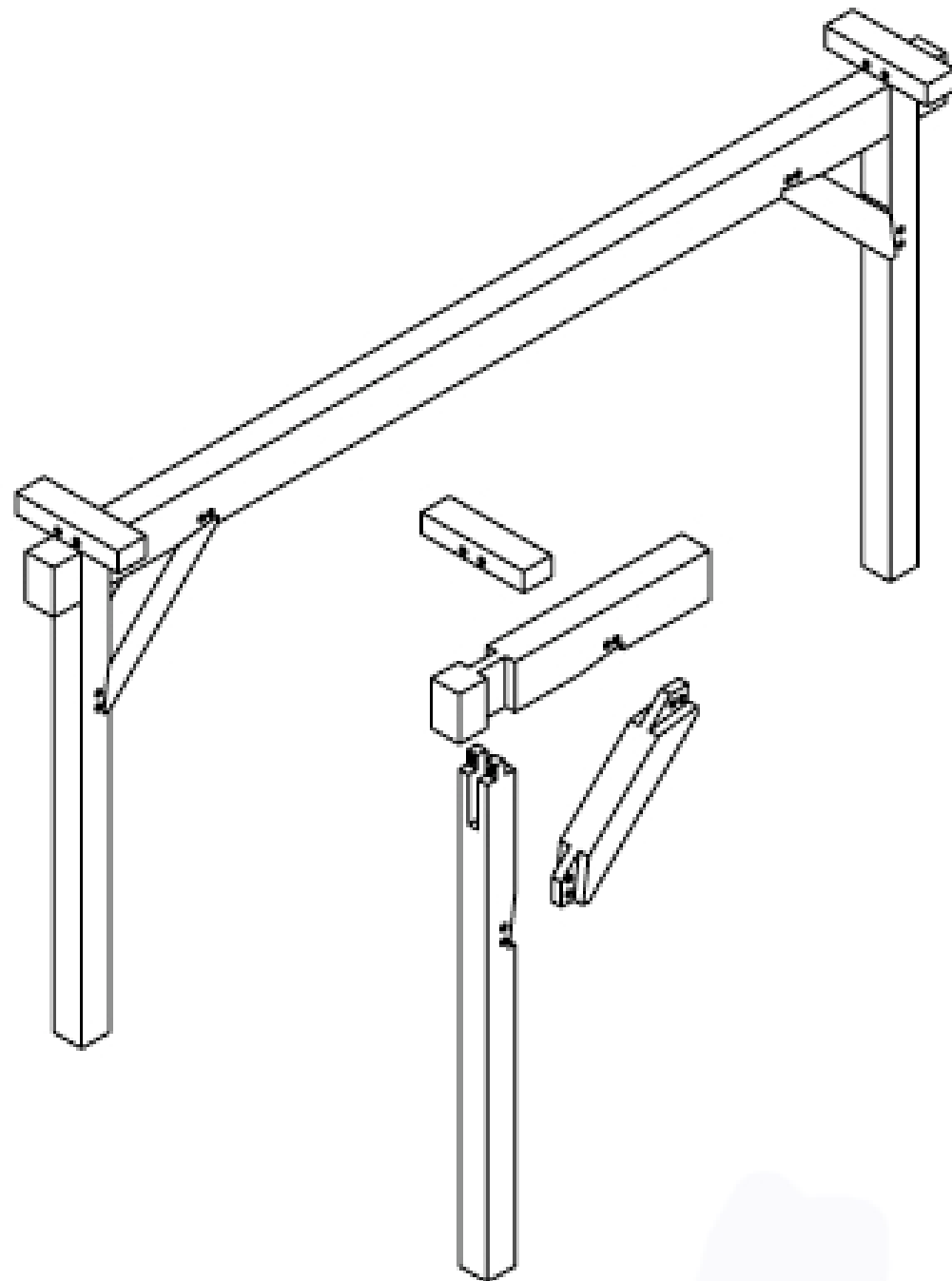


*[The handwriting is extremely faded and illegible.]*

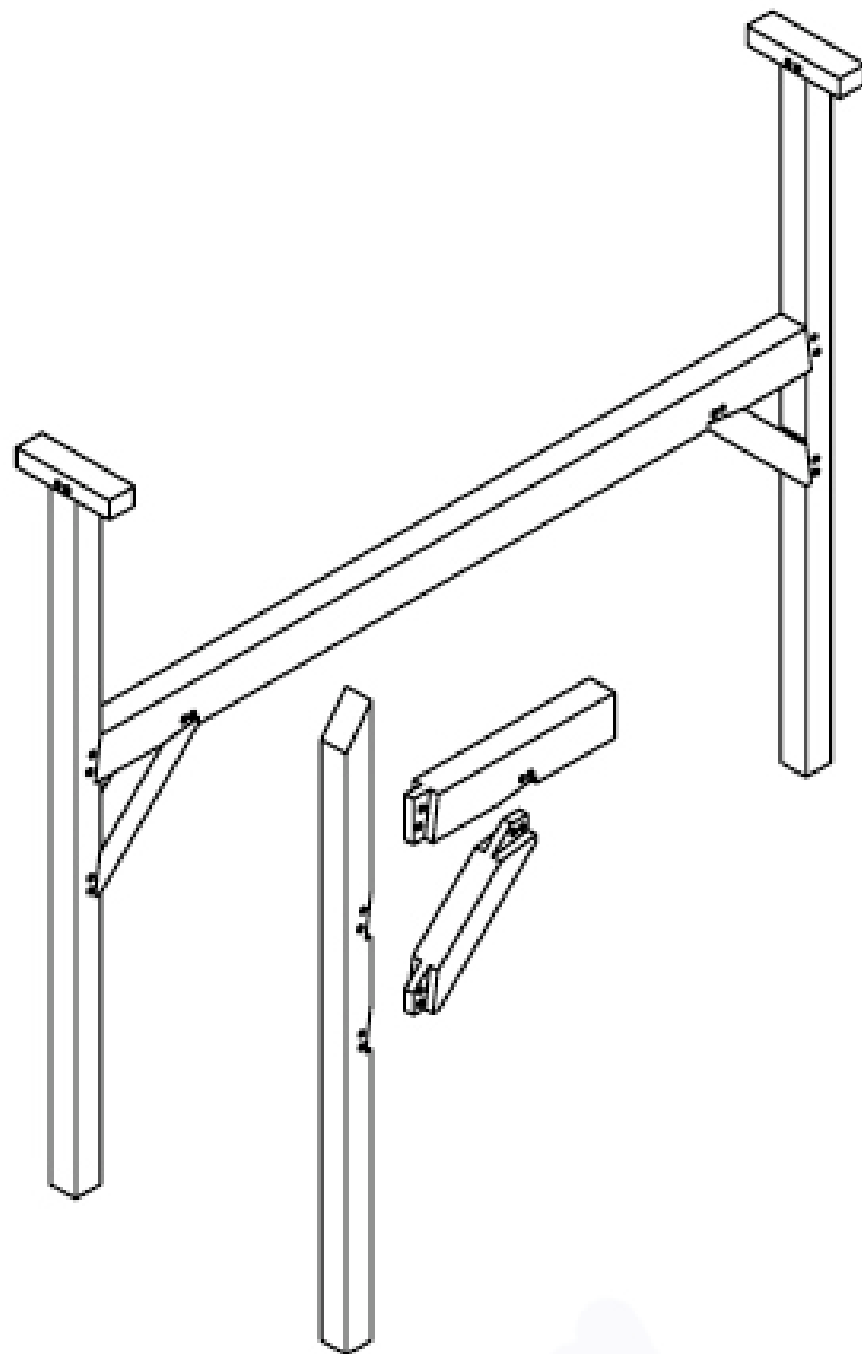


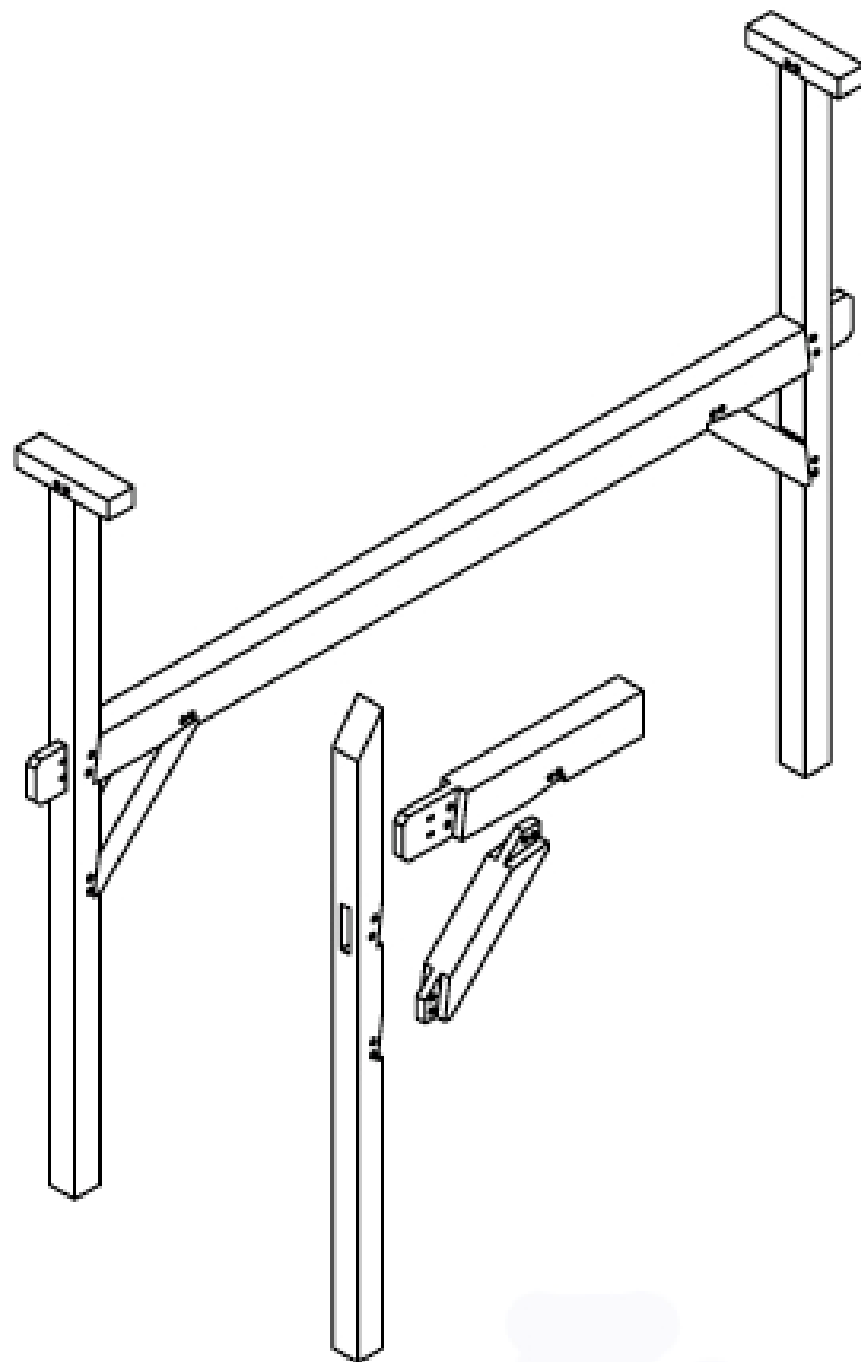




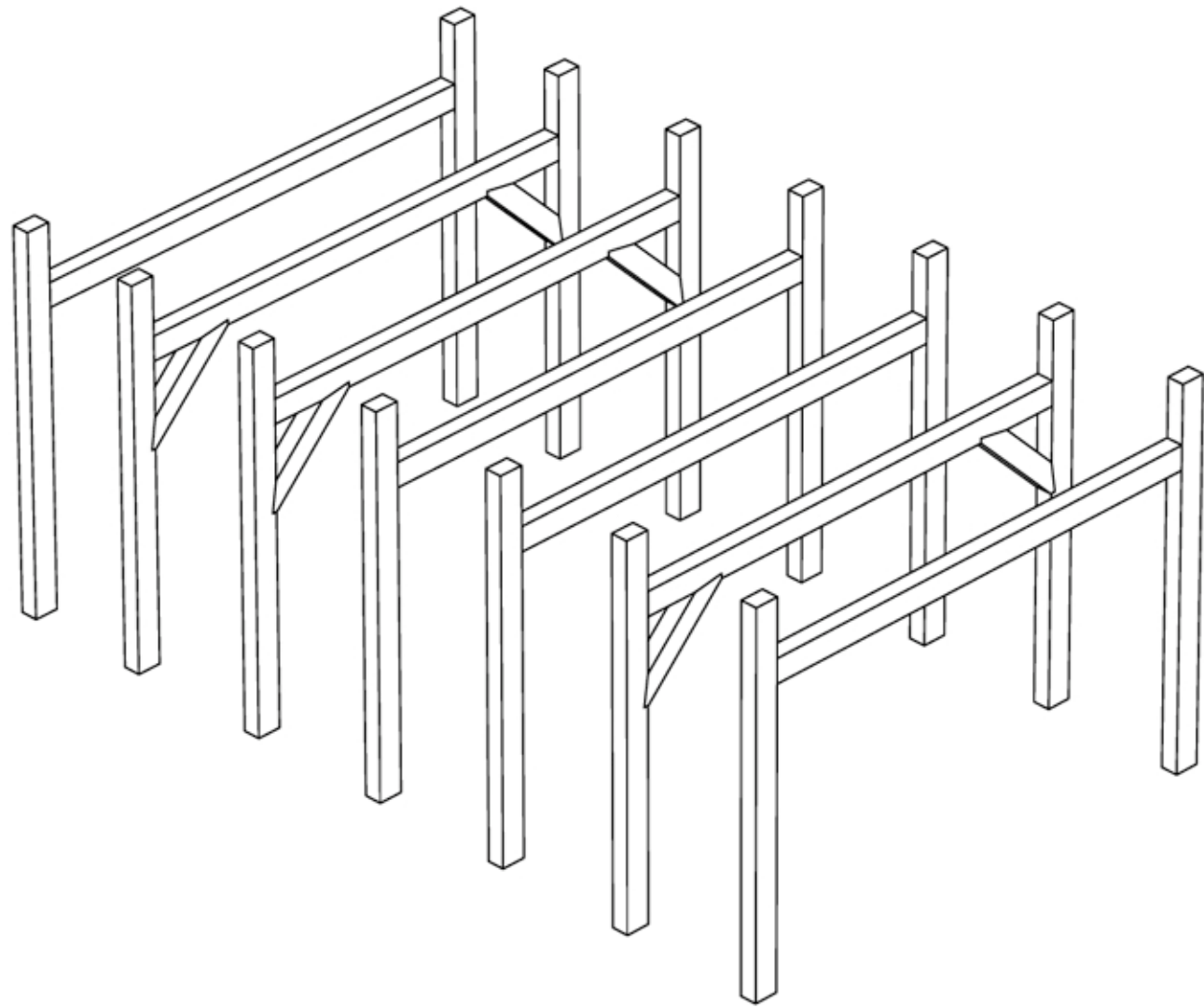






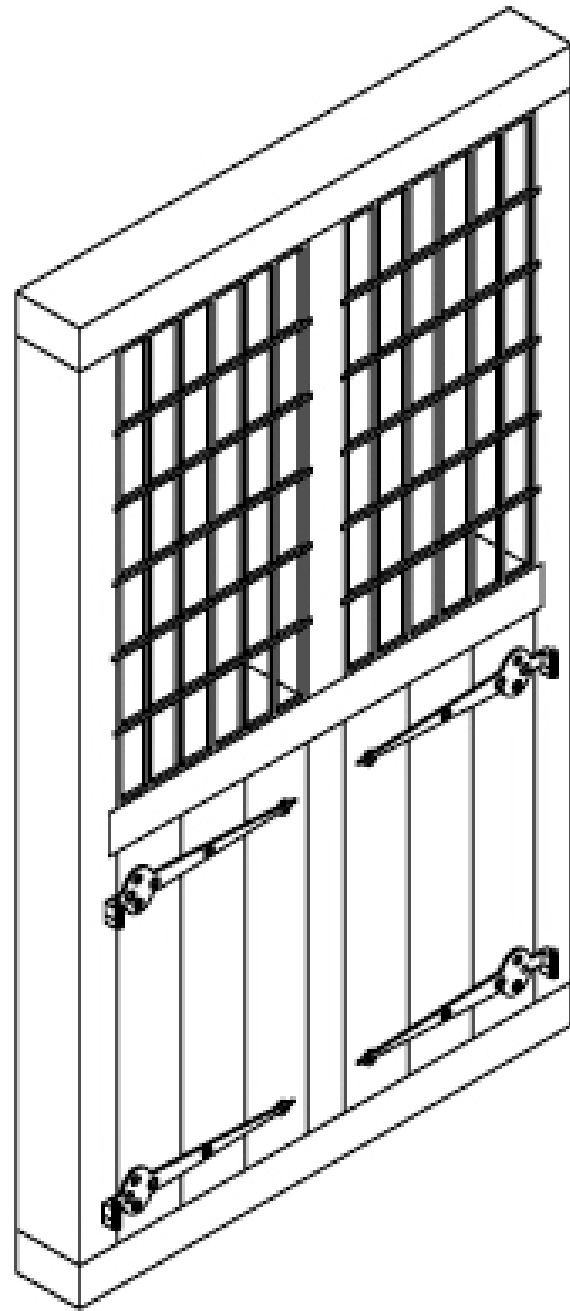


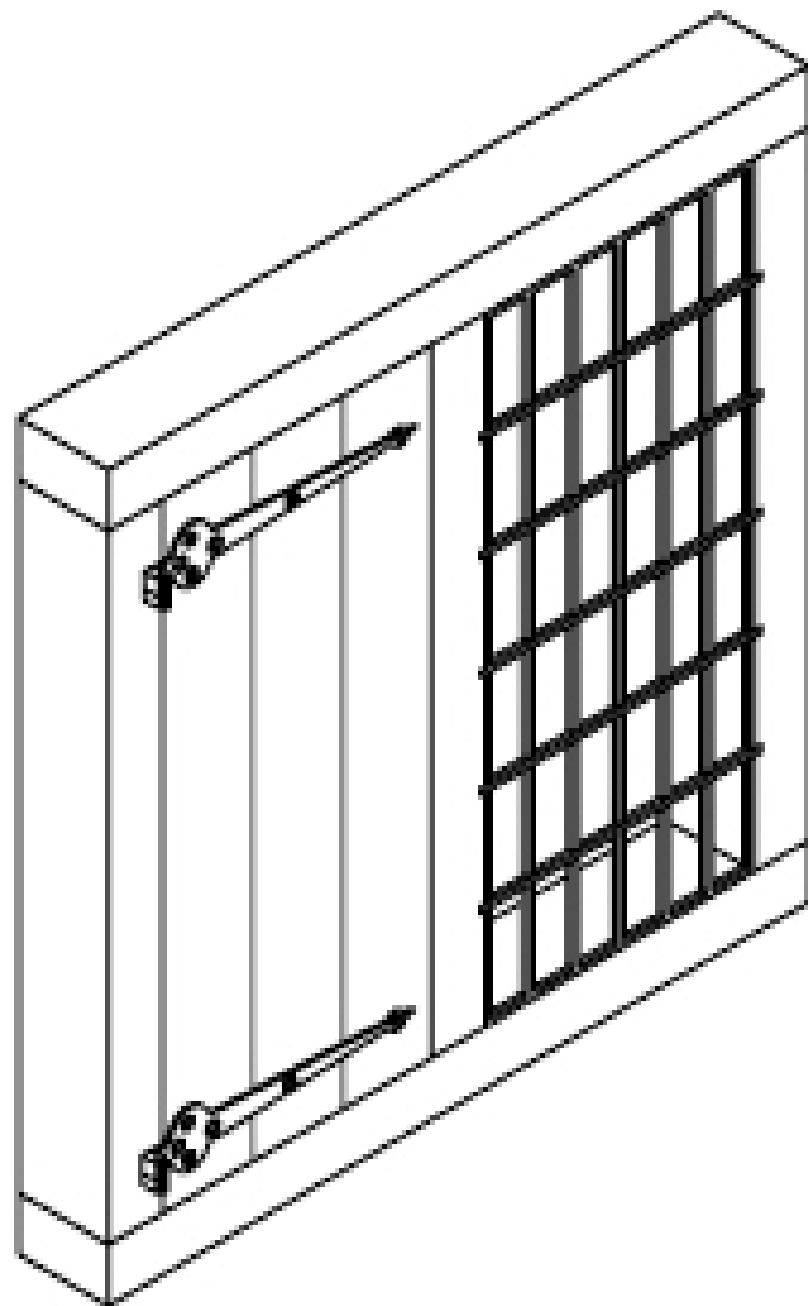


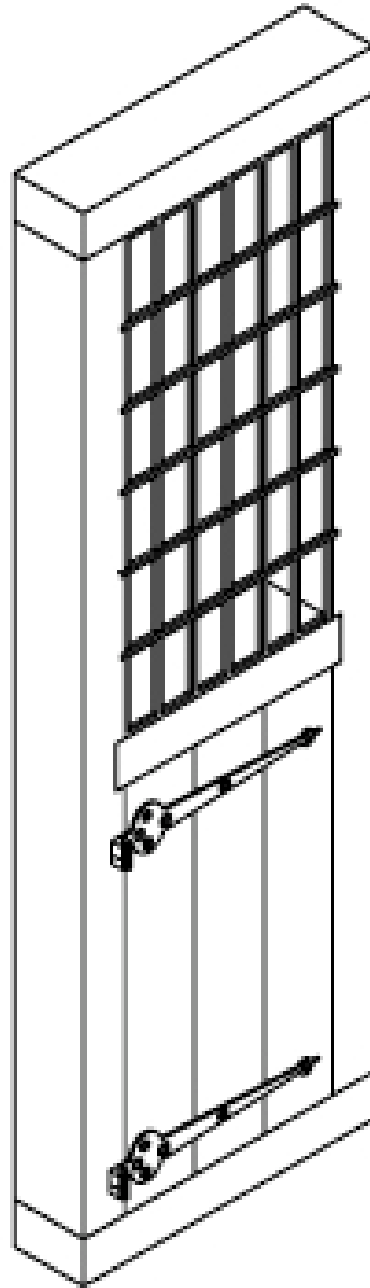




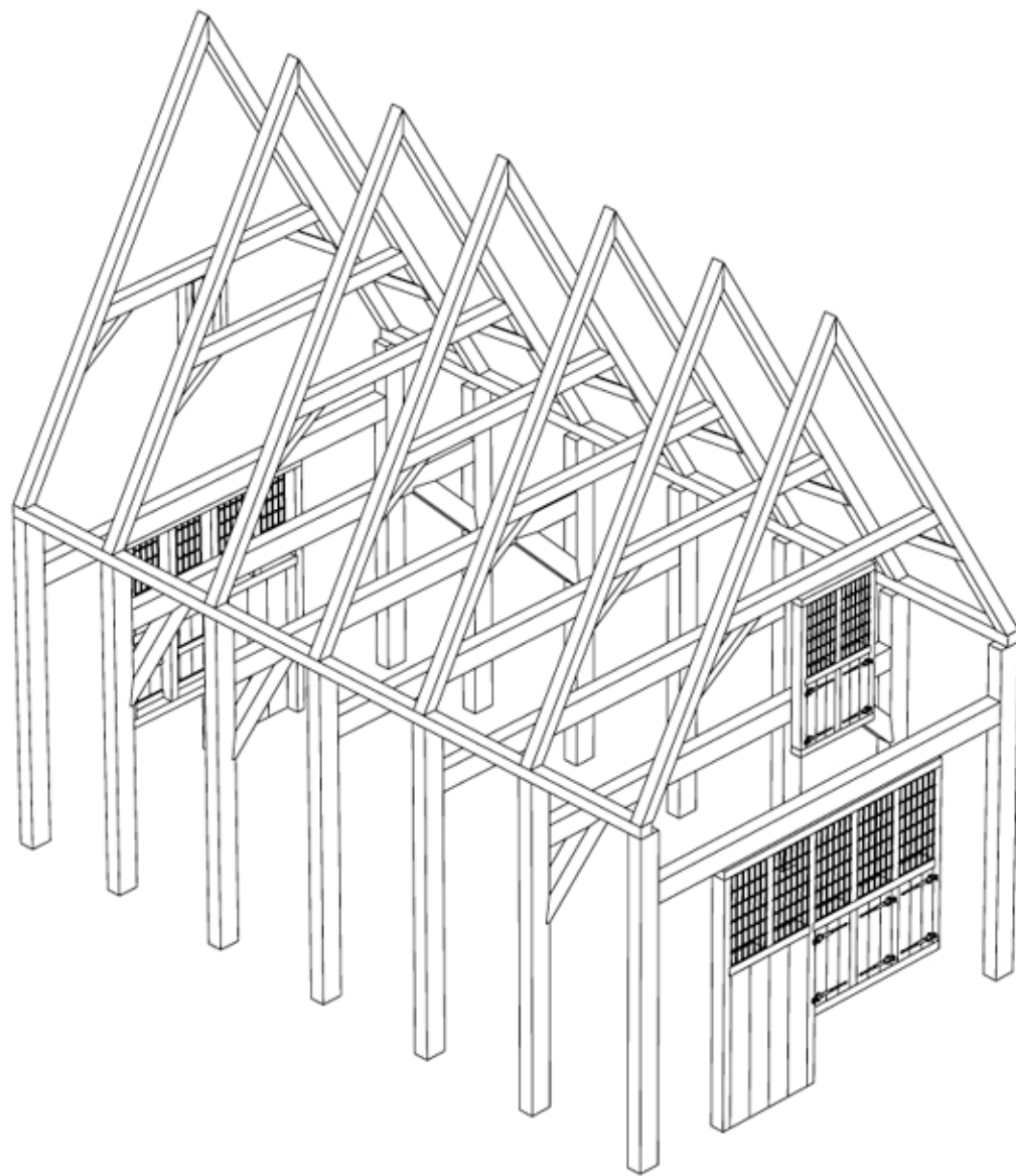








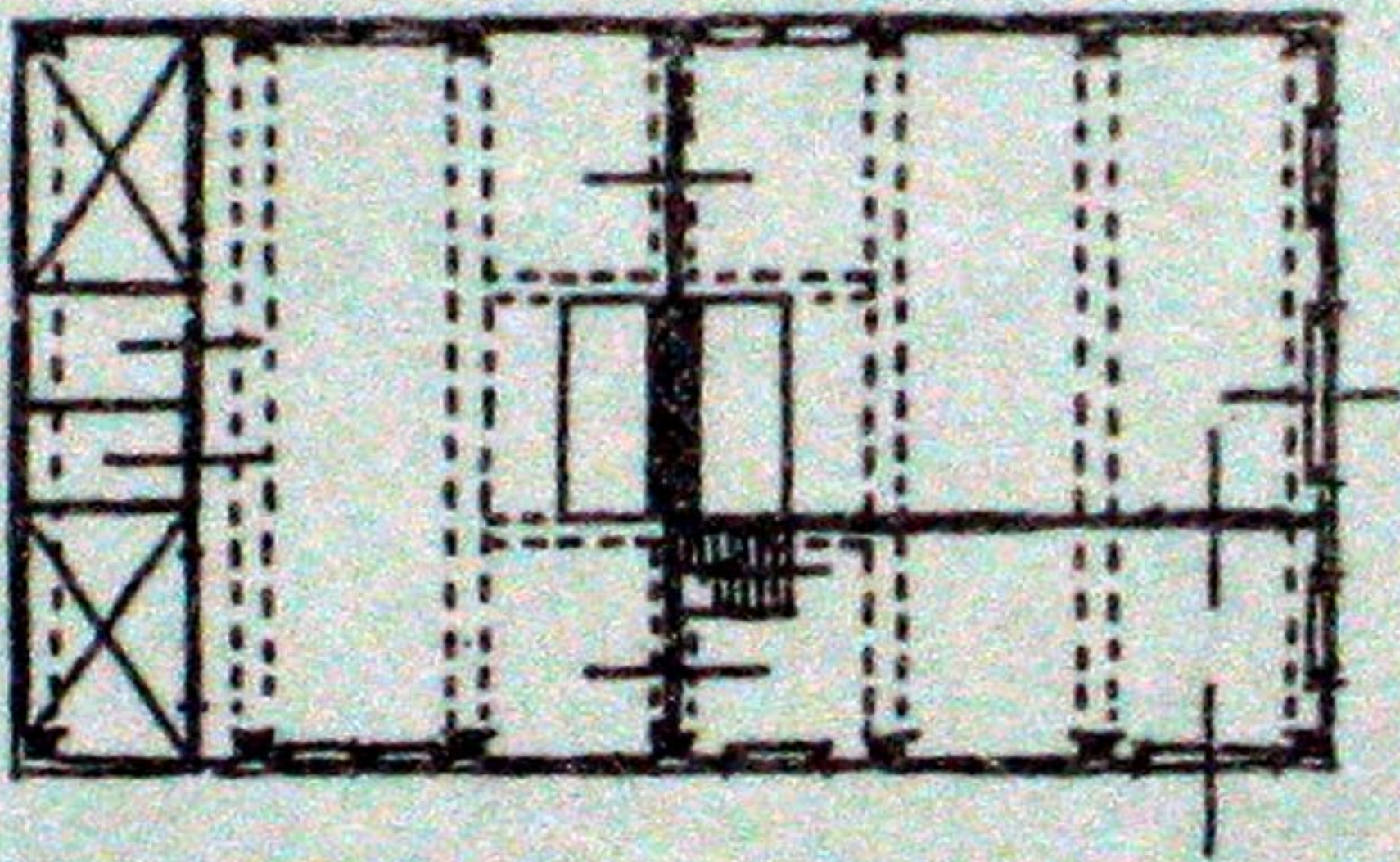




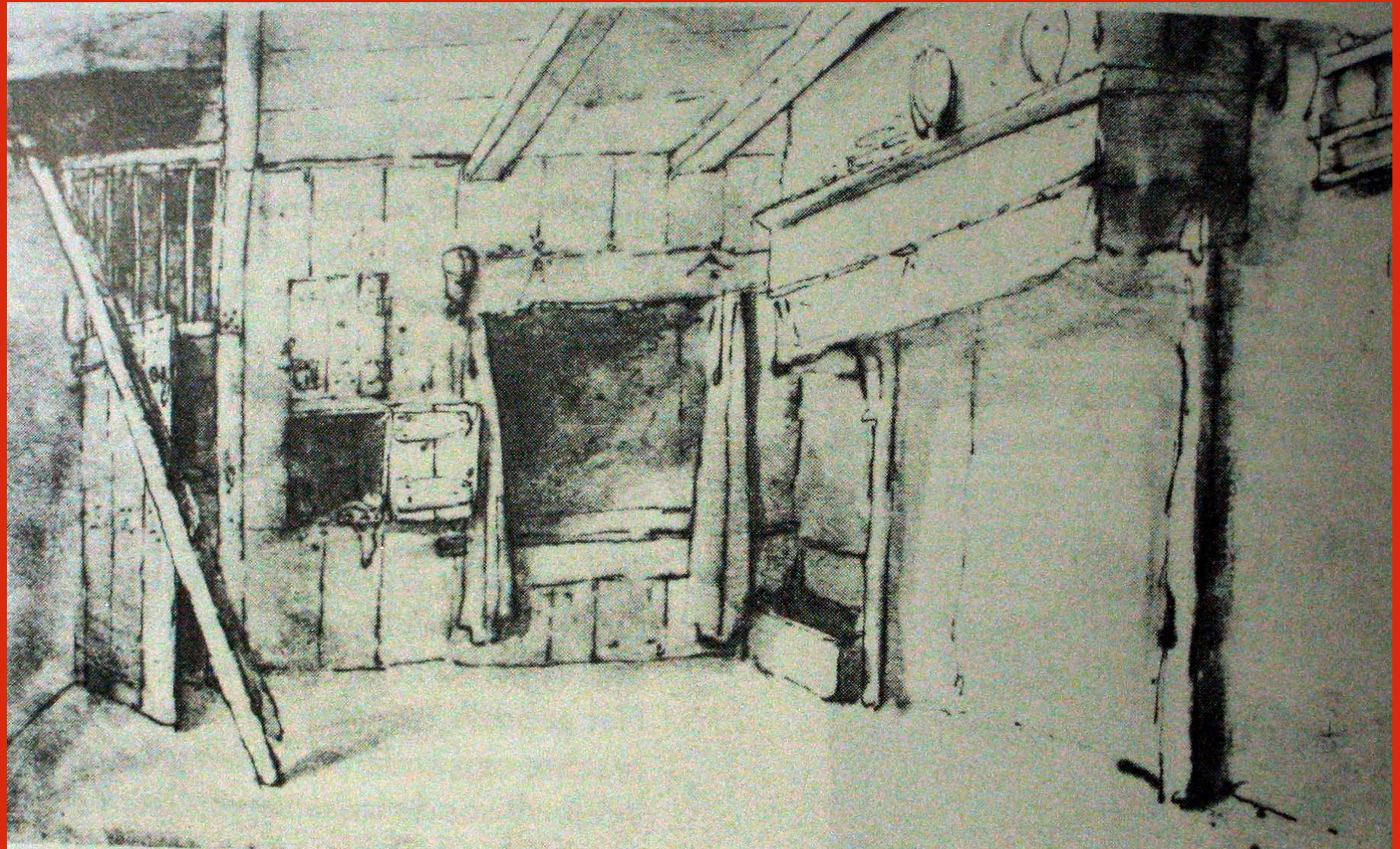














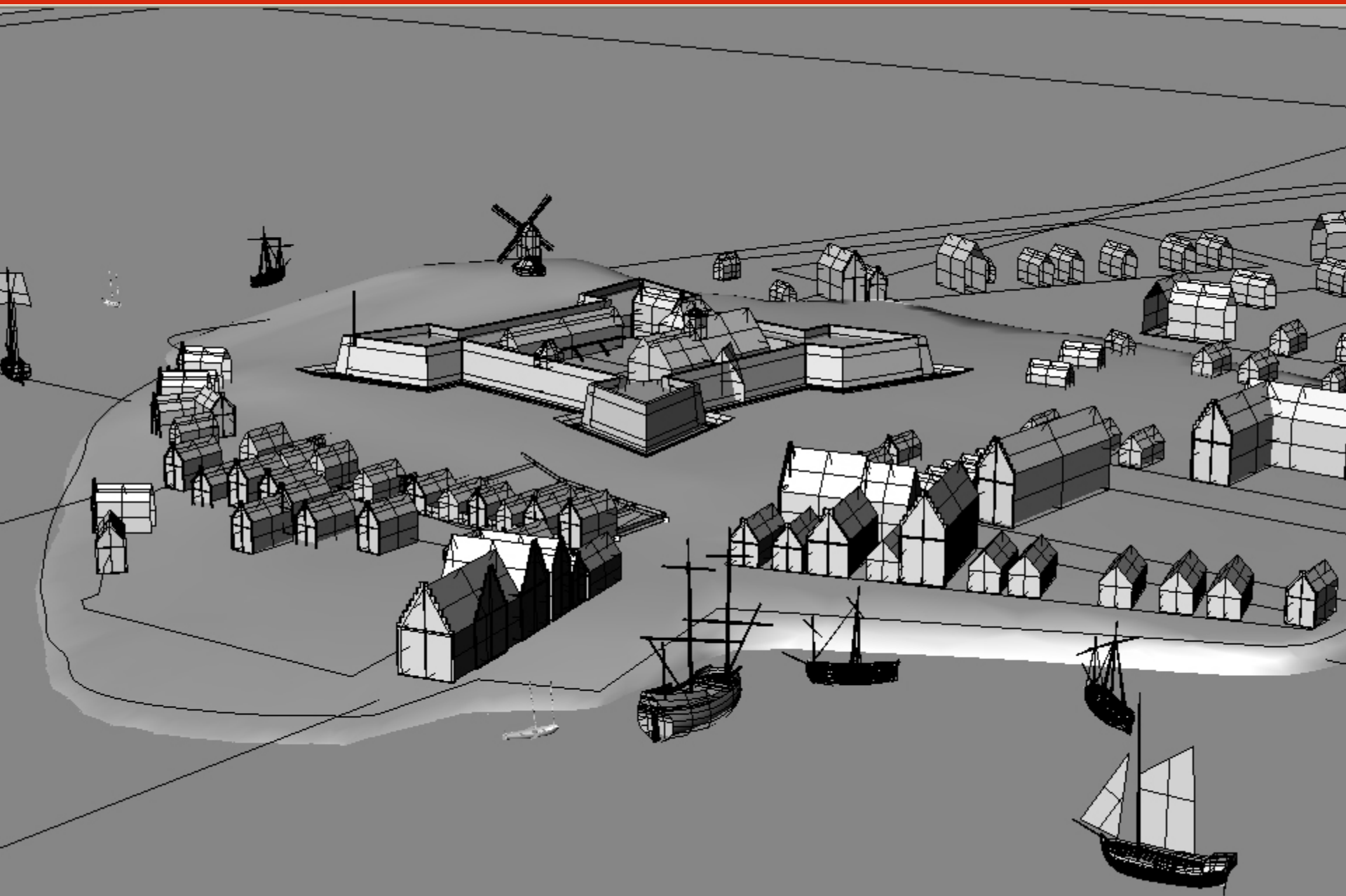




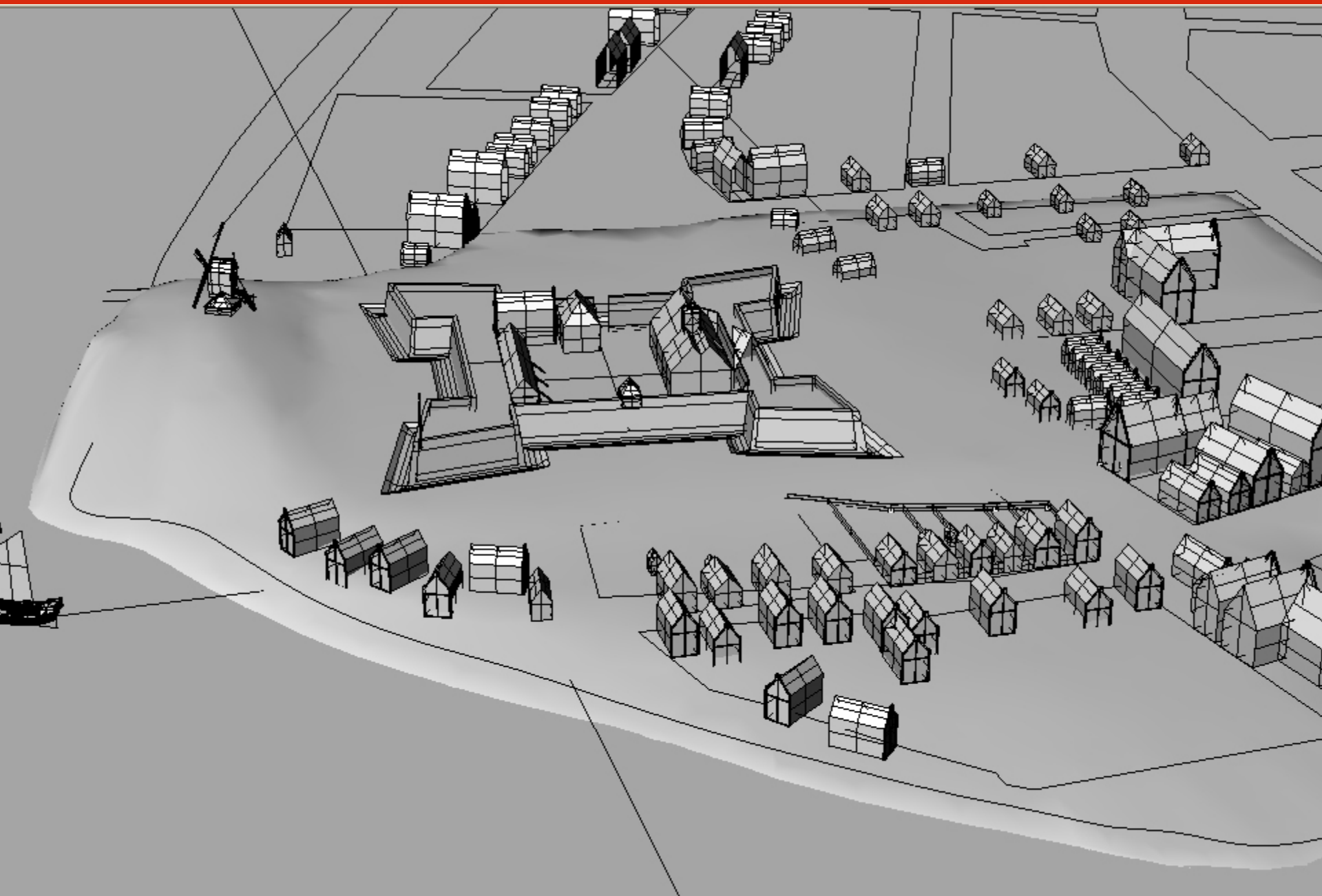


harbor view



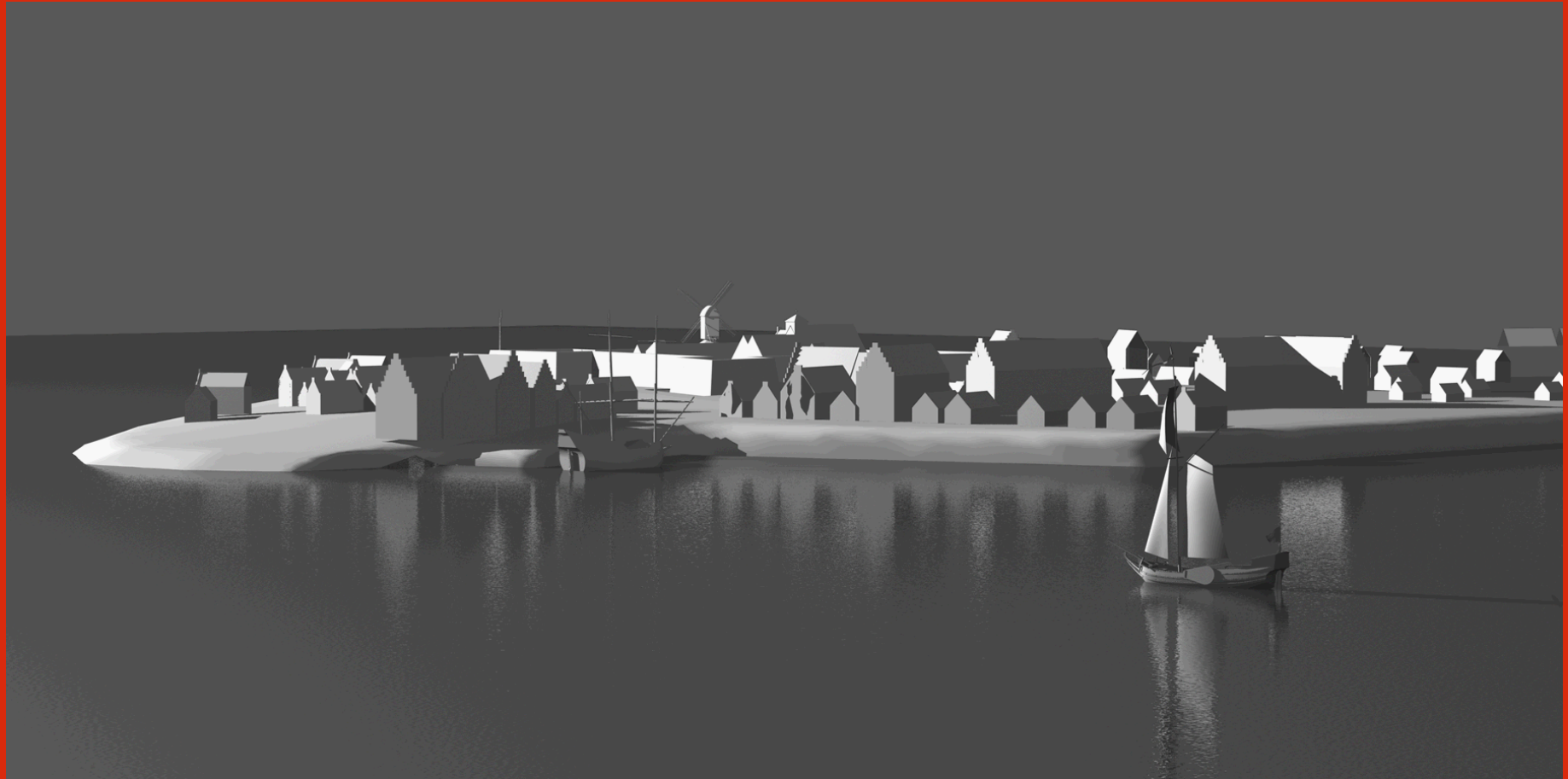






harbor view



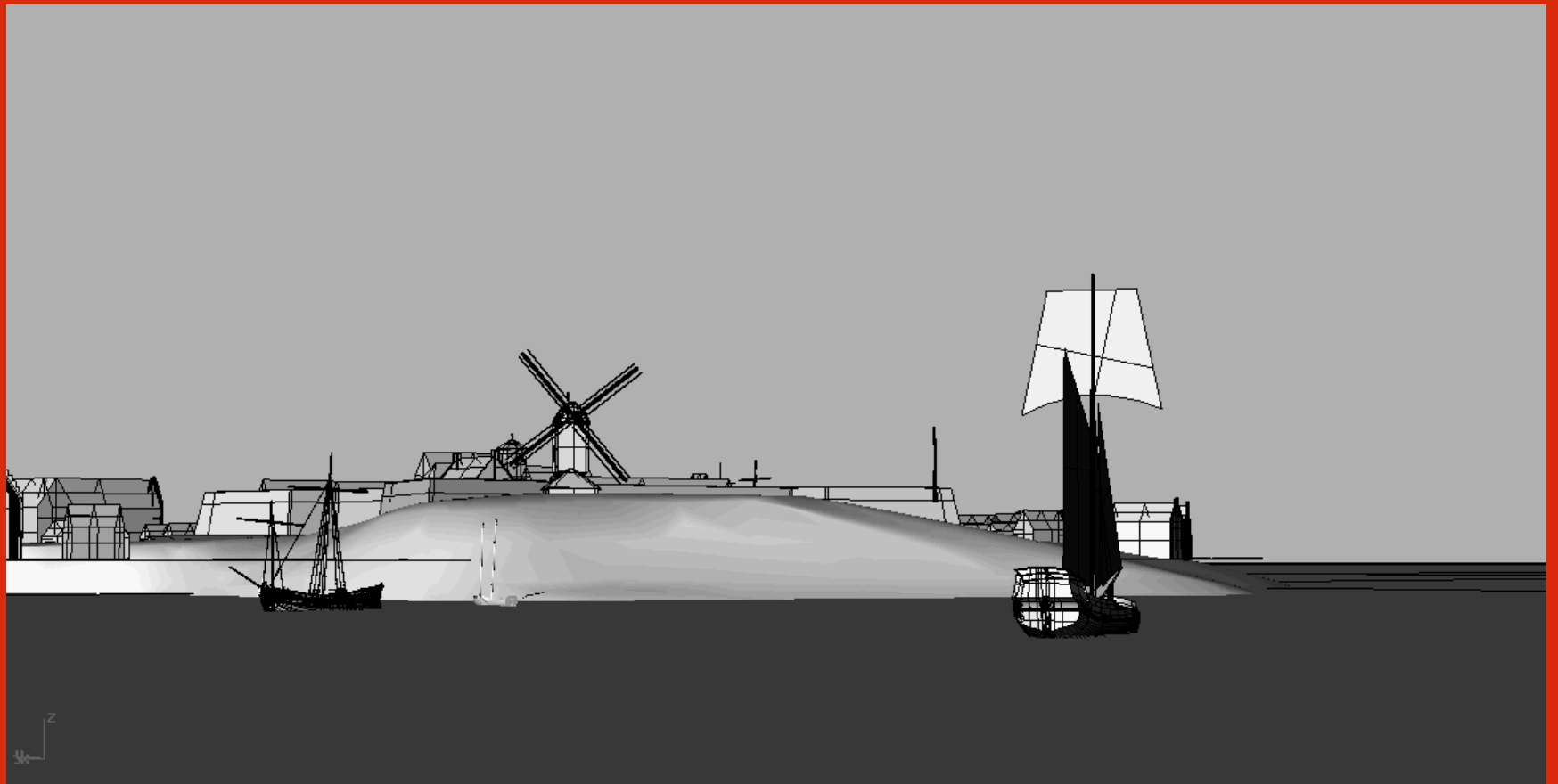




harbor view



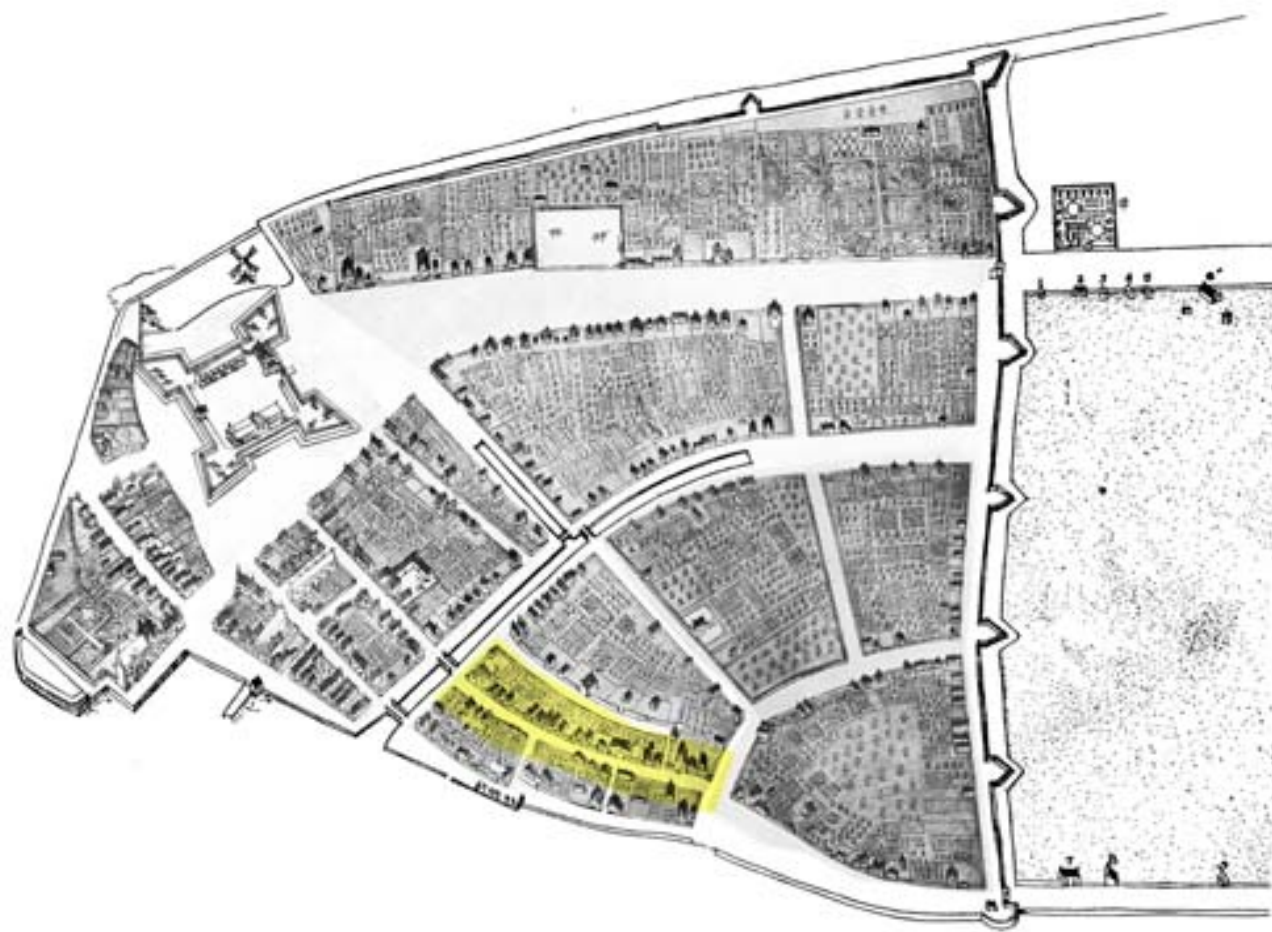




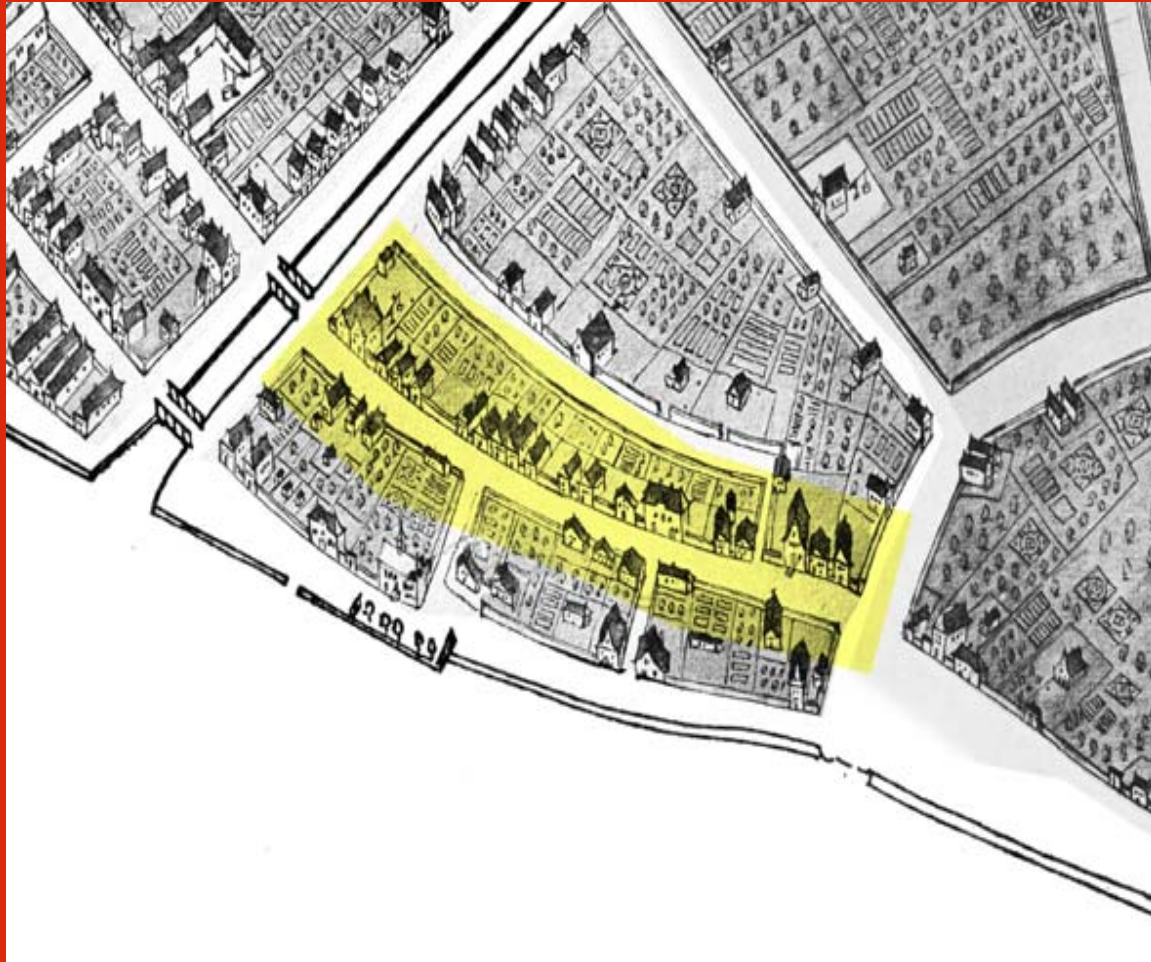


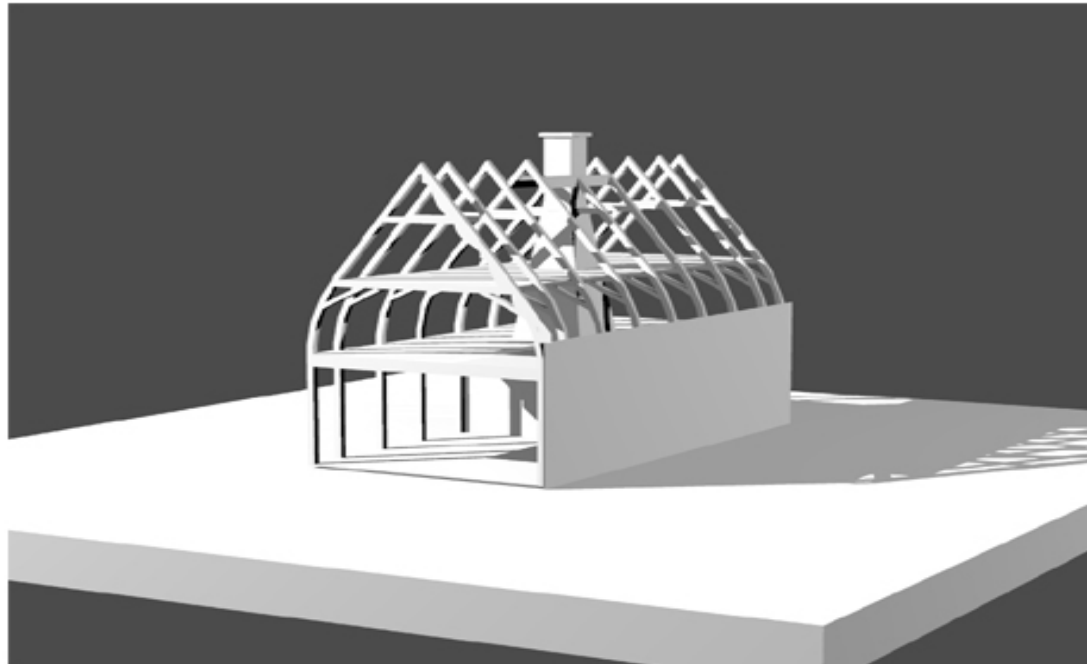
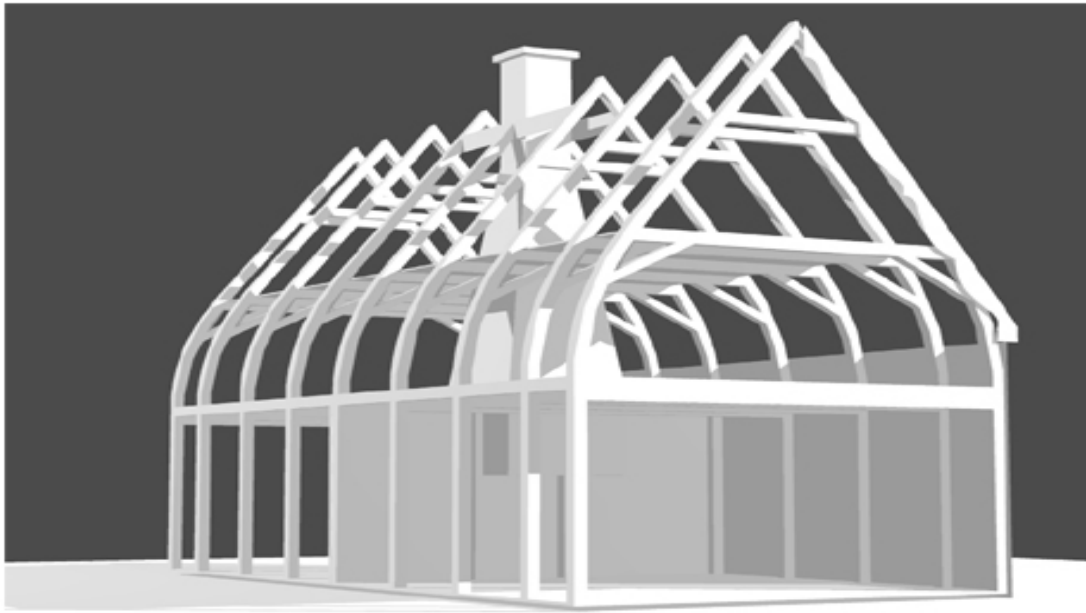
















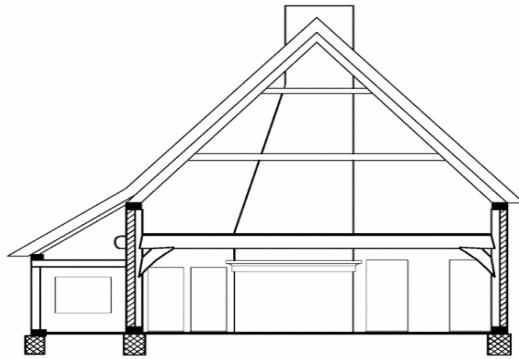




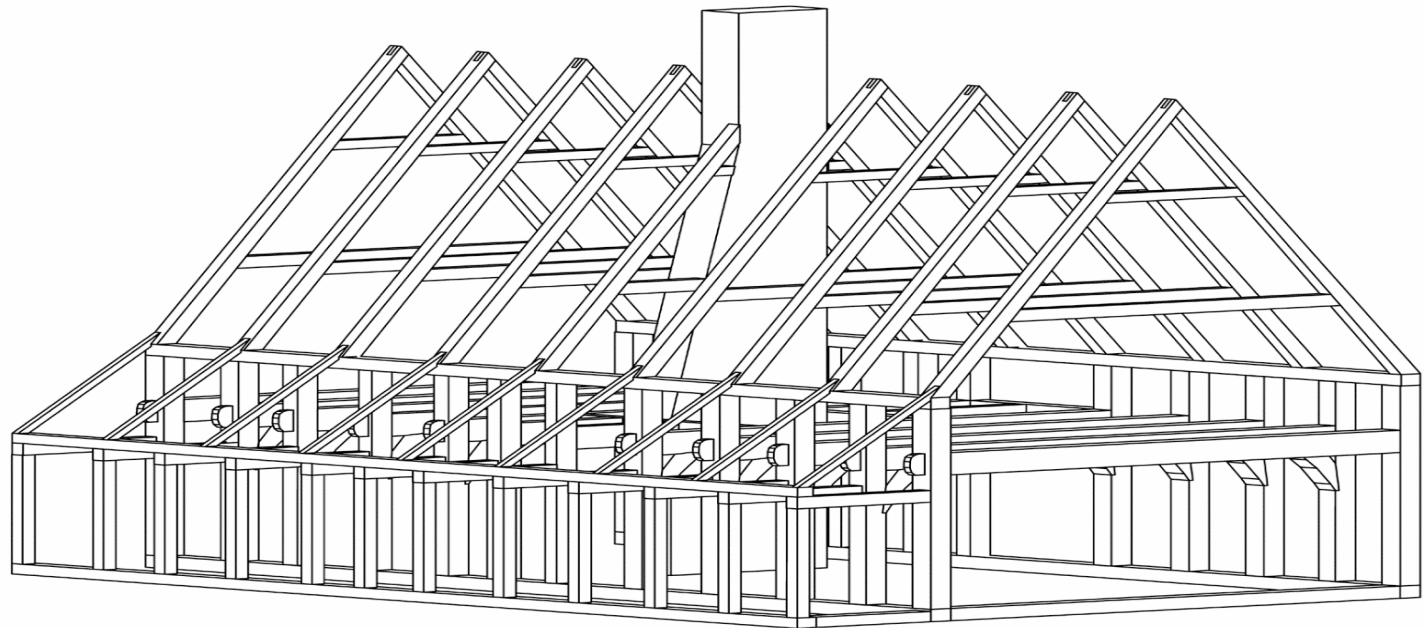
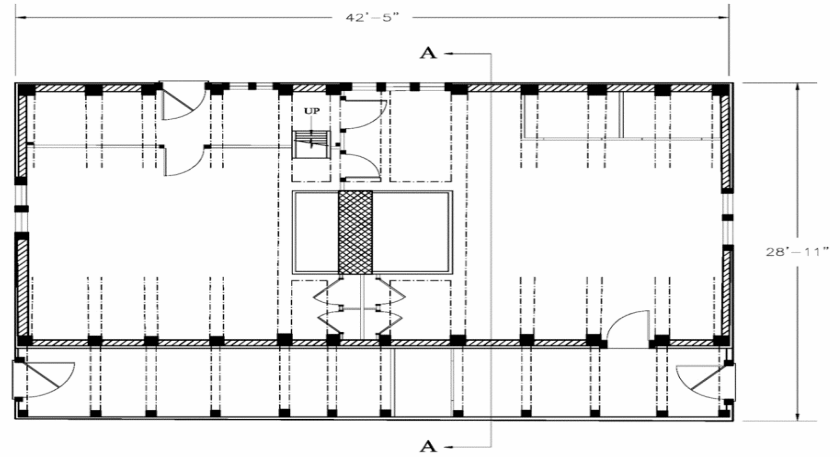
# Jan Martense Schenck House







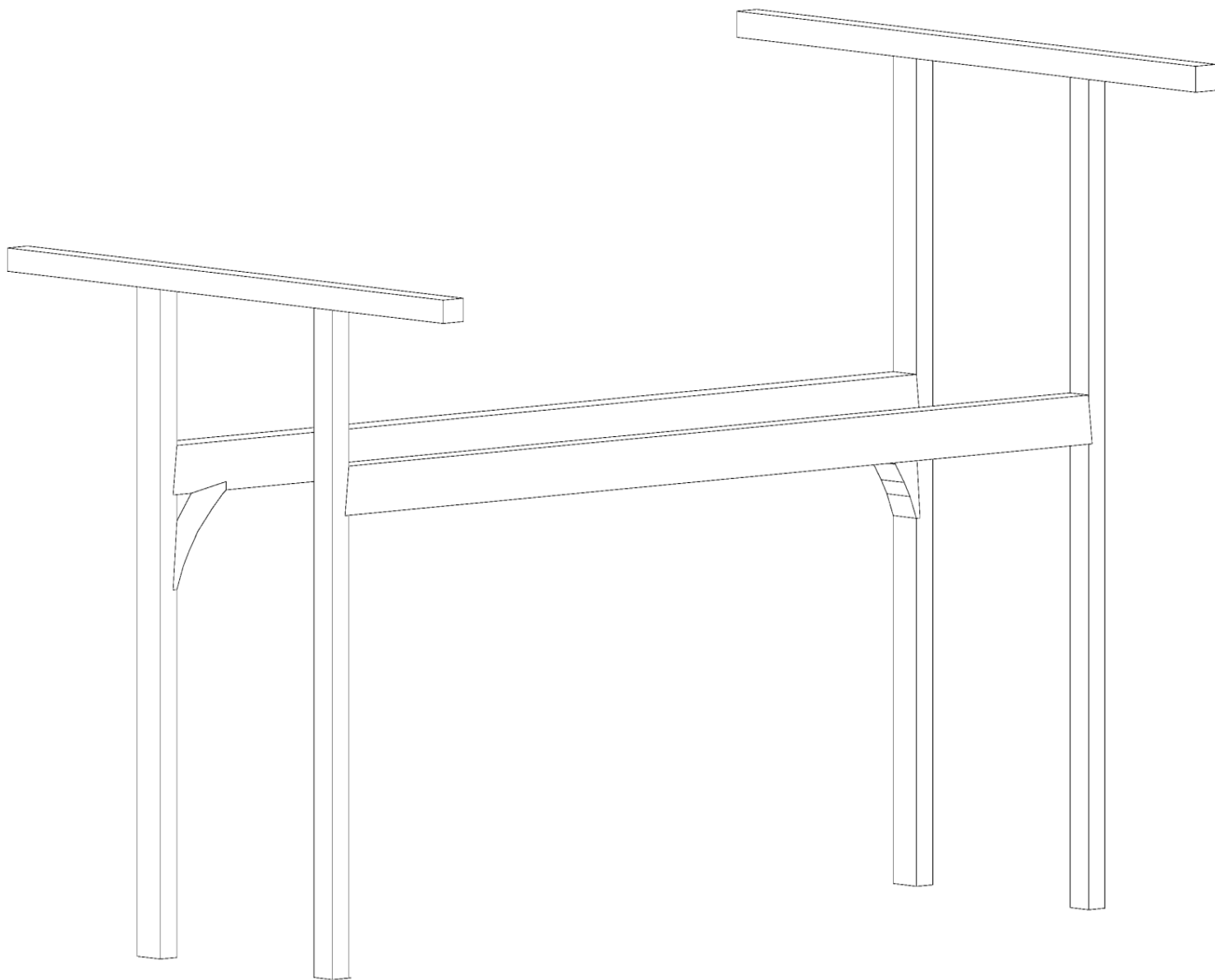
Section A-A

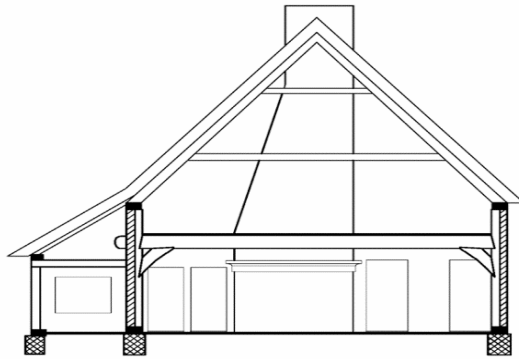




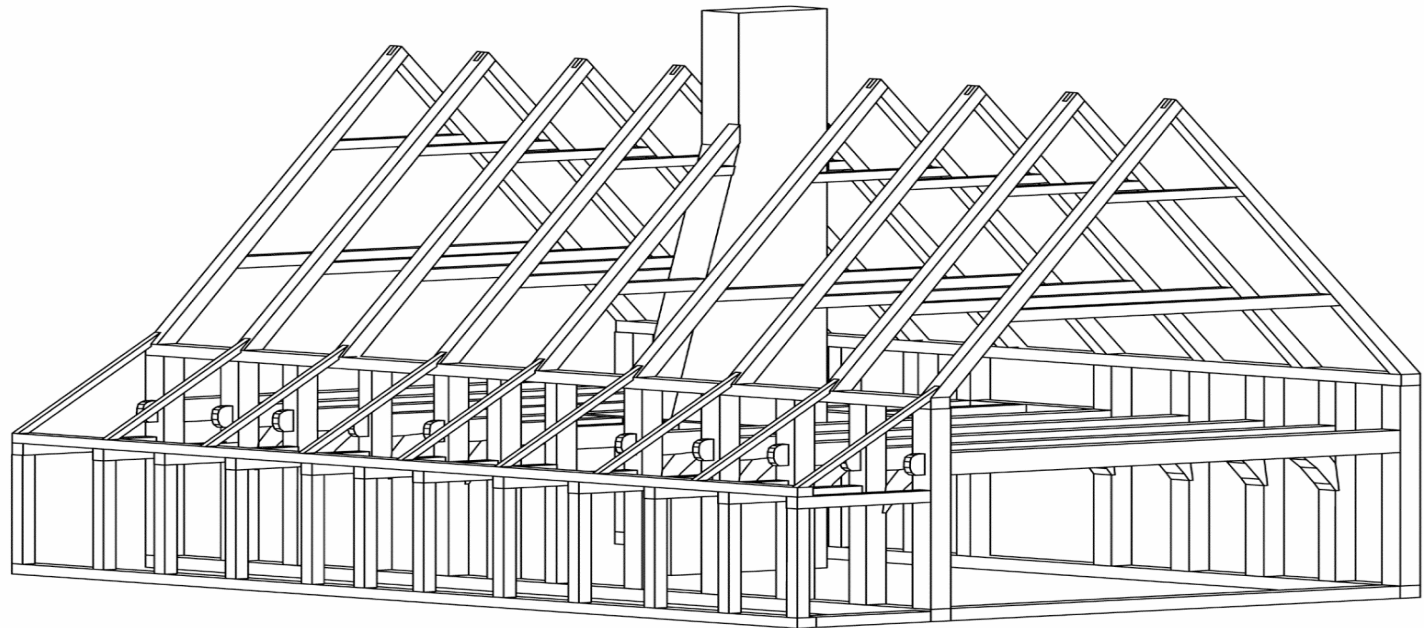
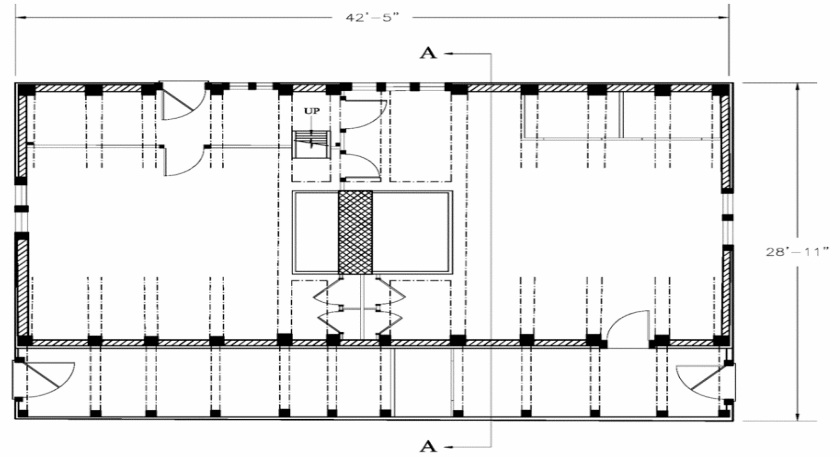








Section A-A









# Domestic Life

- Paintings and images provide a starting point for exploration















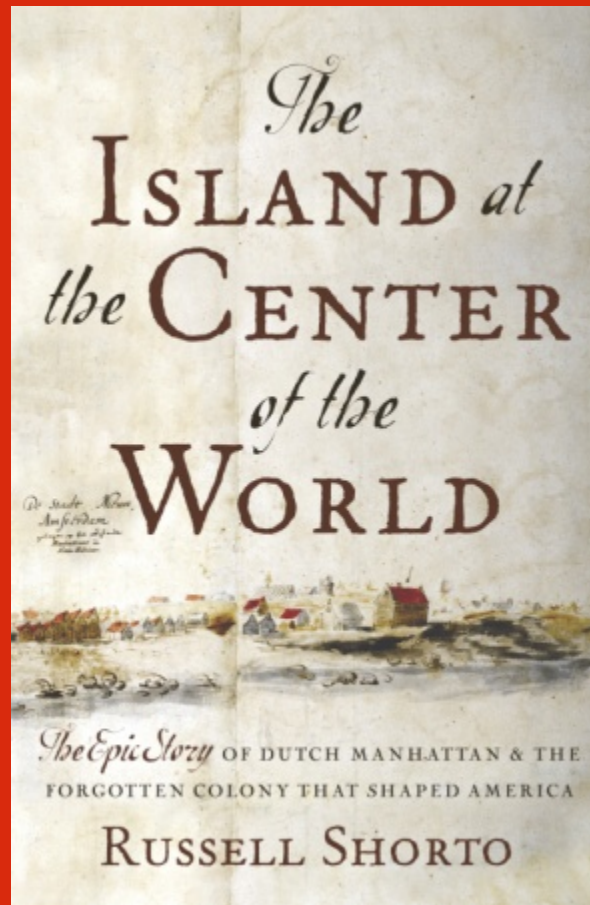




# SO WHAT?

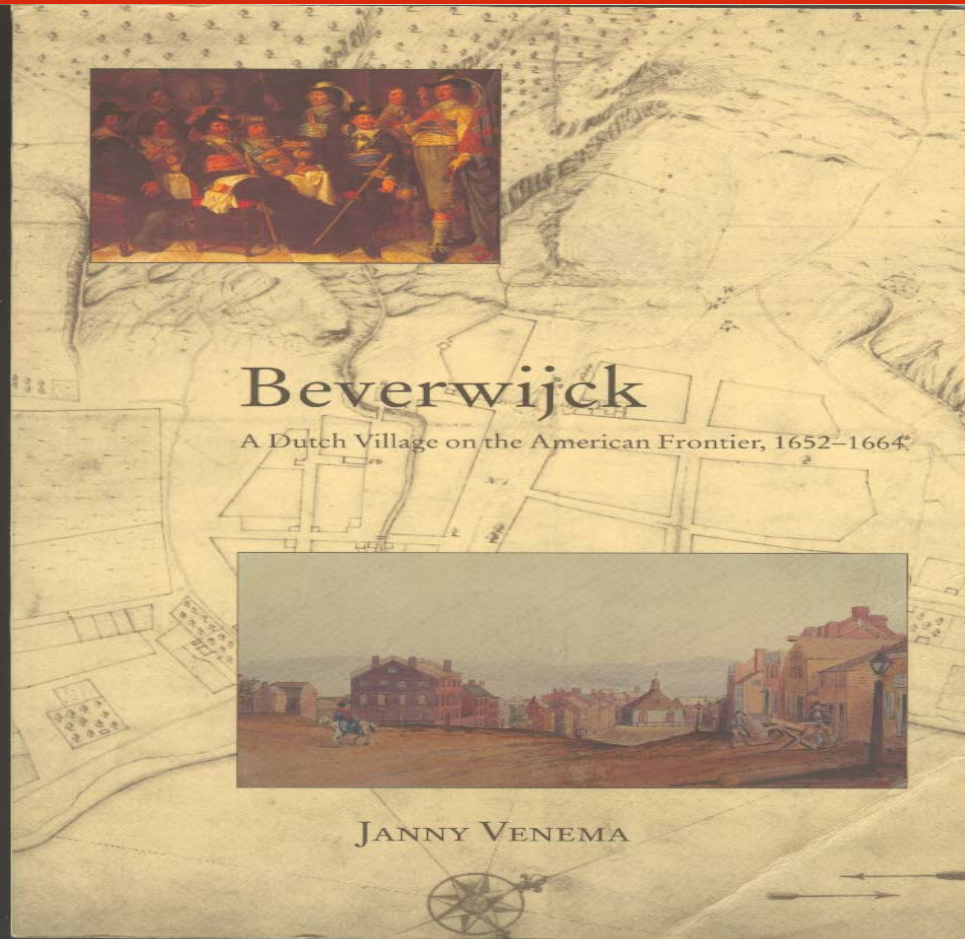
New Netherland Starting with New  
Amsterdam's History and Settlement  
Patterns

# Inspired By





# Beverwijck







## The Battery Rebuilt

















