#### HISTORY OF ARCHITECTURE I ARC 2313 - SPRING 2022

## LECTURE-13 21 FEBRUARY 2022

For Wednesday, 23 February

Ingersoll: 183-190, 251-263

### Imperial Rome

#### Roman building technology:

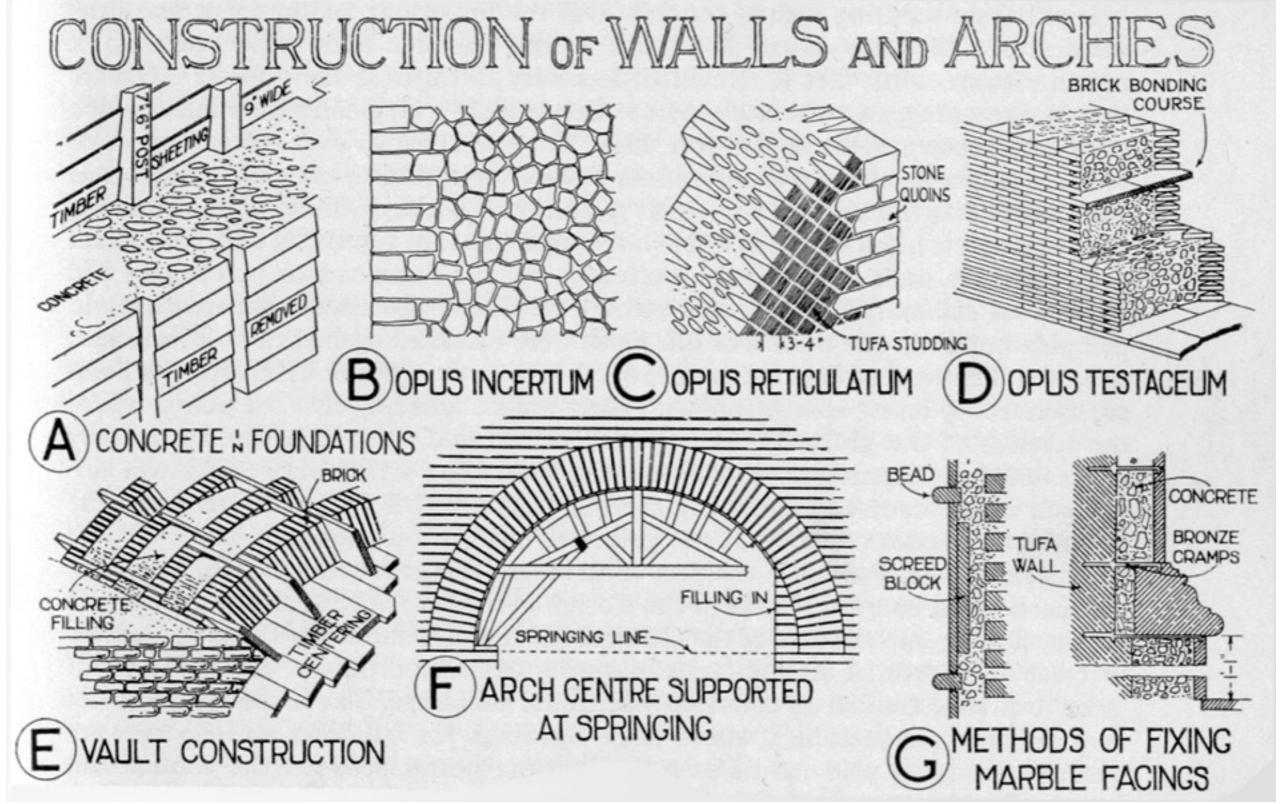
TRABEATED SYSTEM OF THE GREEKS

+

ARCHED SYSTEM FROM THE ETRUSCANS

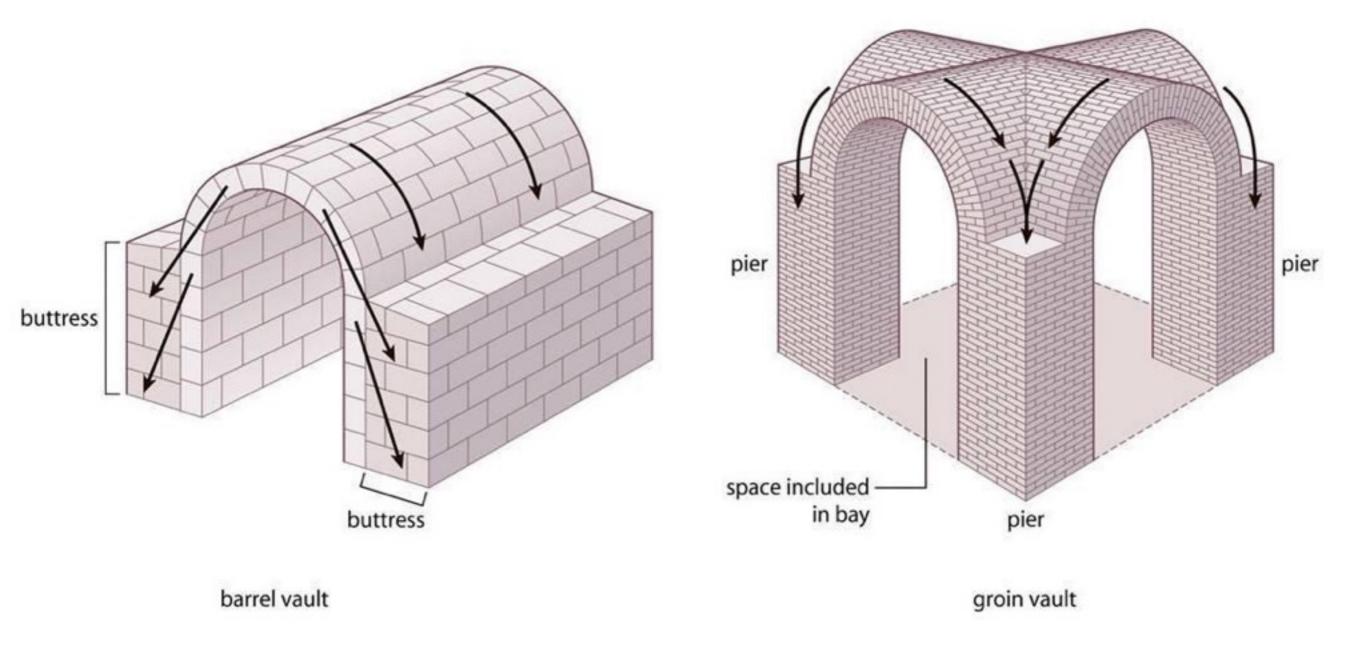
CONCRETE DEVELOPED BASED ON GROUND VOLCANIC ASH CALLED POZZOLANA

ROMAN BRICKWORK



Build the *centering* first - then build arch on top of that *Roman brick* (D) called *opus testaceum Reticulated* (C) called *opus reticulatum* 





Straight vault over two parallel supporting walls is a *barrel vault*Two intersecting barrel vaults makes a *groin vault* 

#### DOMUS

The Roman House / domestic / domicile

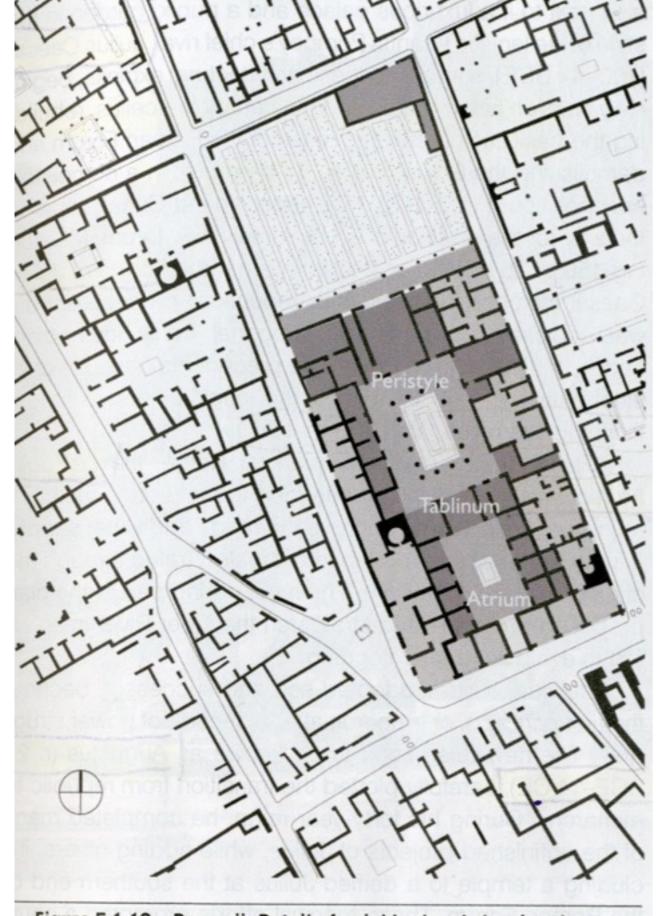


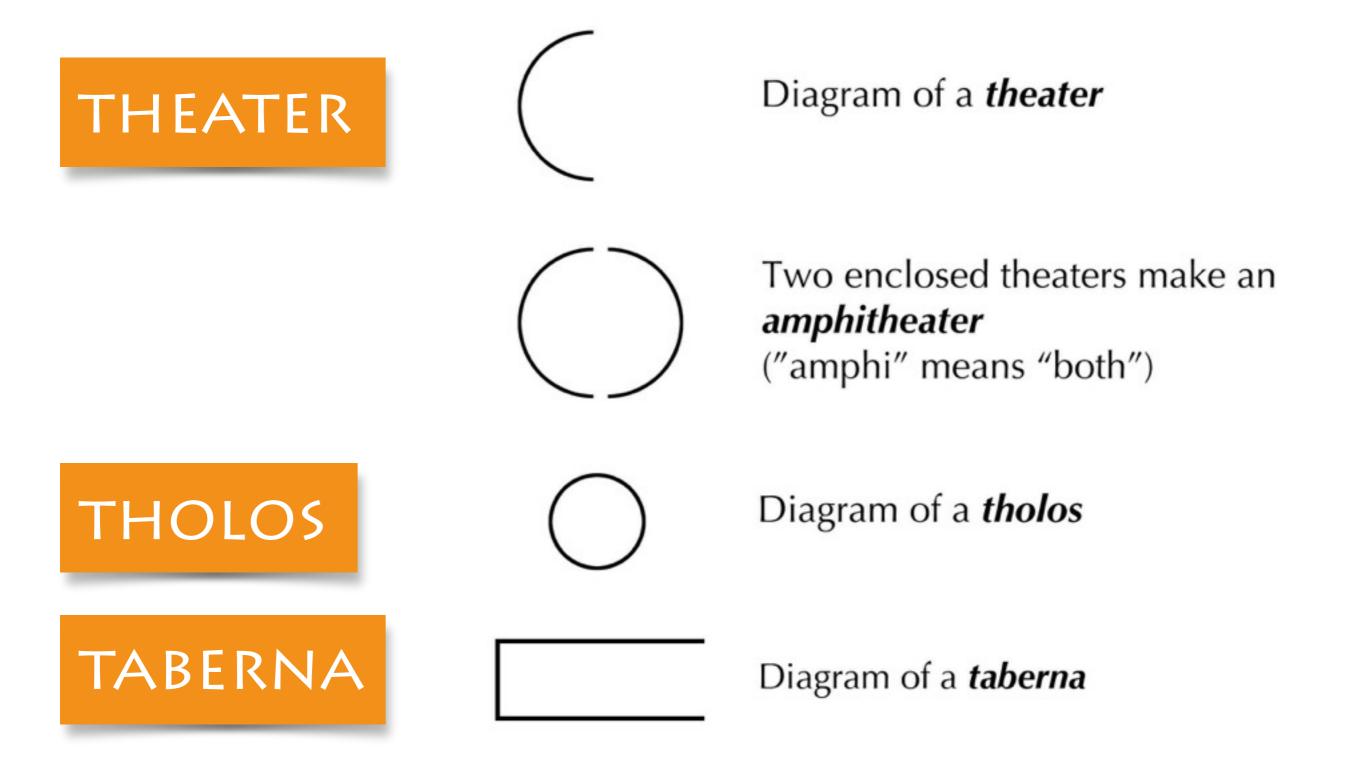
Figure 5.1-18 Pompeii. Detail of neighborhood showing the domus. House of Pansa occupying an entire block. Shops and rental units in the light gray areas on the perimeter.

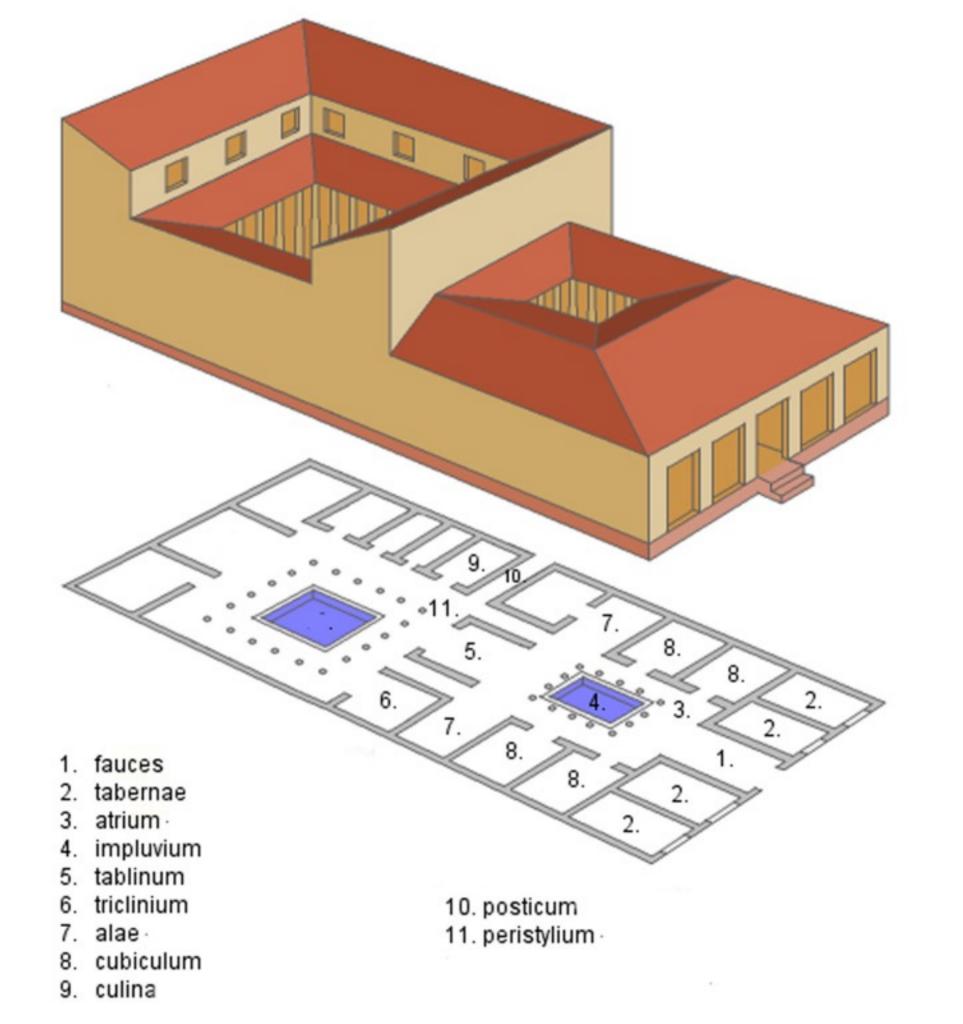
**Domus** on a large block surrounded by ground-floor retail...

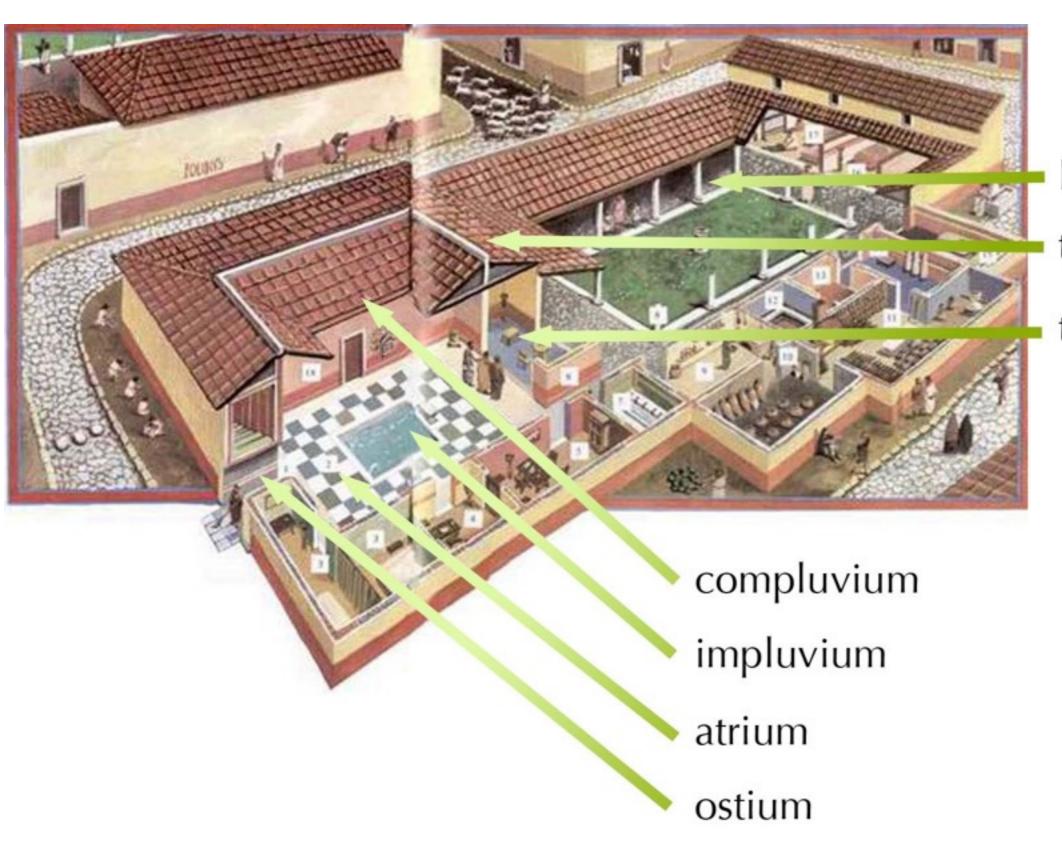
The retail stores were simple barrel-vaulted chambers called *taberna* (tabernae plural)

taberna is another ancient building type (add this to the theater and the tholos)

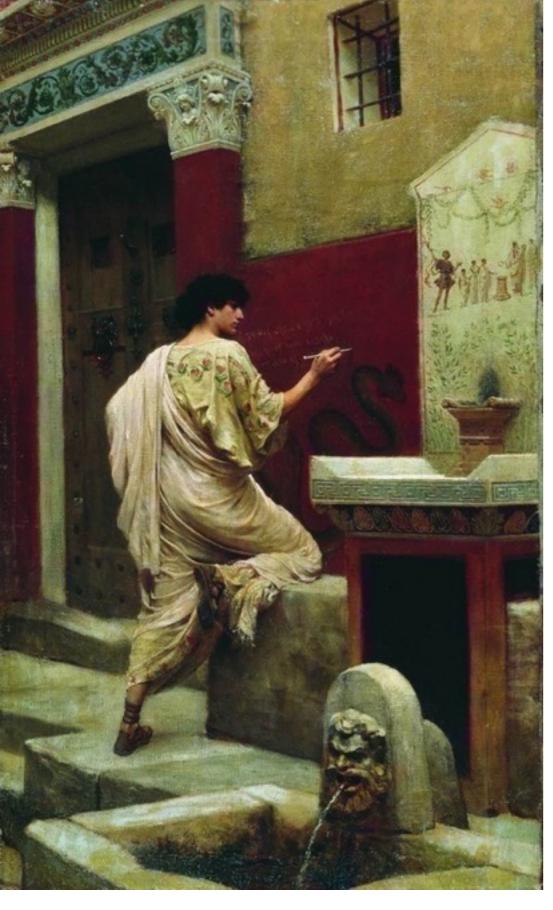
#### Our list of Ancient Building Types now includes the taberna



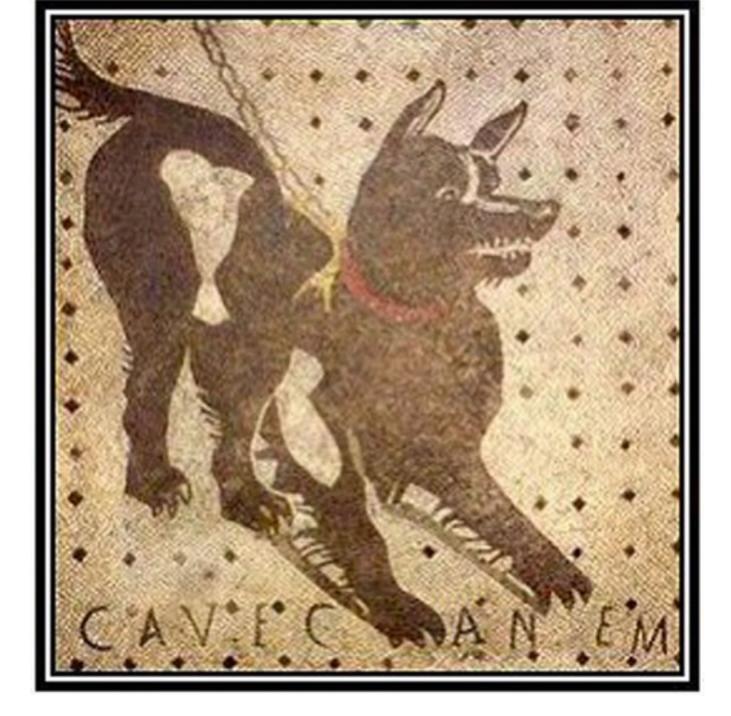




peristylium triclinium tablinum



ostium (vestibule)



cave canem
(beware of dog)





atrium = open central space
of the Roman domus for
light and ventilation

impluvium = pool that collects water in the atrium



atrium in Pompei showing the impluvium directly below the hole in the roof called the compluvium - peristyle garden beyond





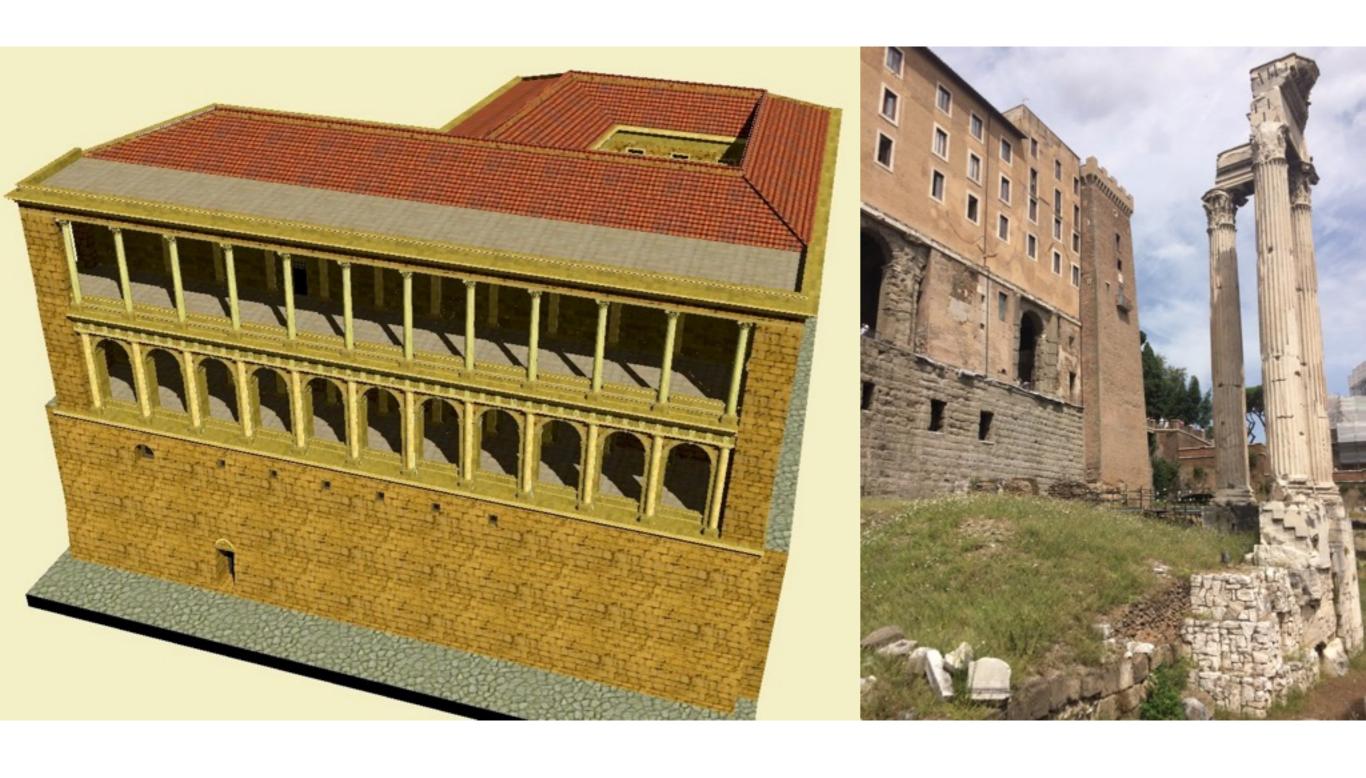
insula - multilevel apartment block



Here's an *insula* in Ostia (Rome's port city) (note the use of Roman brick and arches)

### FORUM

# Two important buildings on the *Roman Forum* prior to Julius Caesar

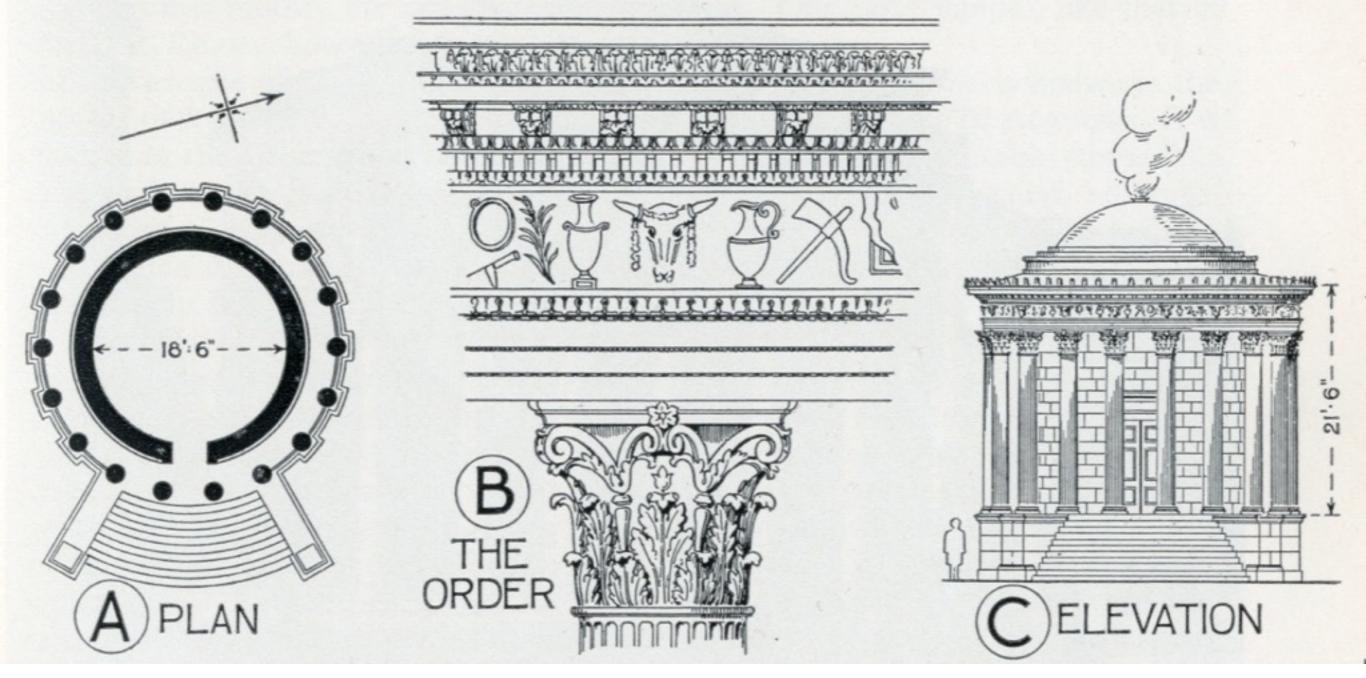


TABULARIUM - for the maintenance of public records



Possibly the most important building on the Forum

#### TEMPLE OF VESTA: ROME (RESTORED)



#### TEMPLE OF VESTA (it's a tholos)

Virgin goddess home, hearth, and family in Roman theology Existed on the Forum since 700 BCE in various forms

#### MAJOR WORKS BY JULIUS & AUGUSTUS

#### JULIUS CAESAR (end of the Republic) died 44 BCE

Forum of Julius
Temple to Venus Genetrix - inside his Forum
Curia Julia - Senate House

AUGUSTUS (first Emperor) ruled 27 BCE - 14 CE

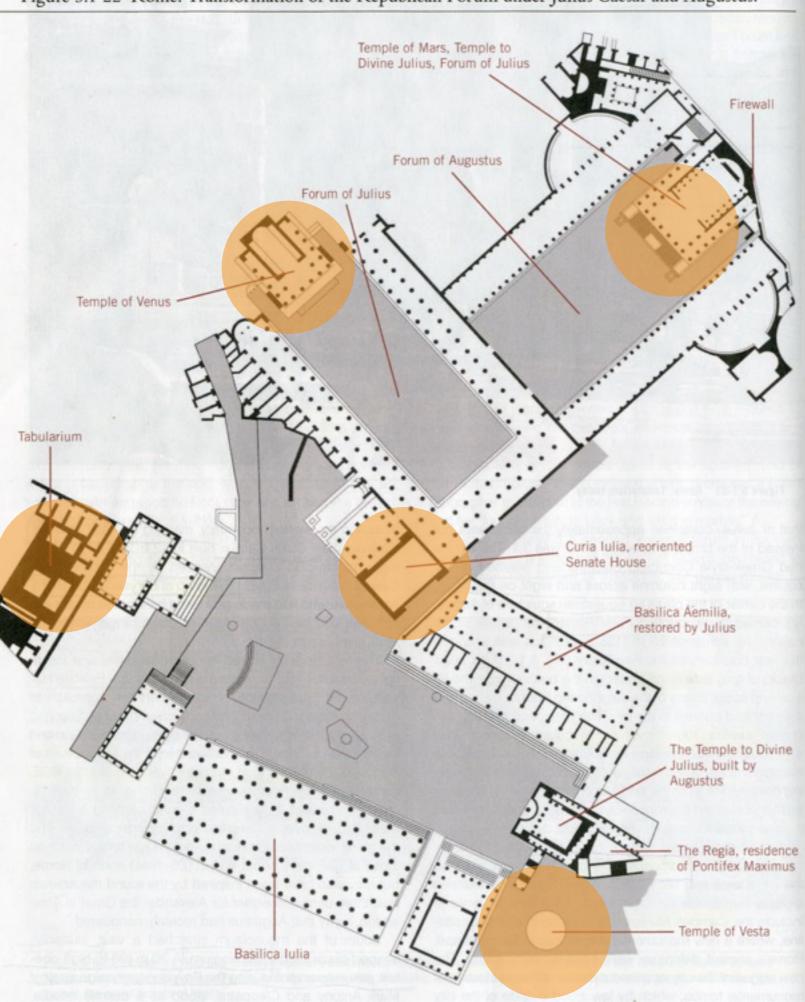
**Forum of Augustus** - inside the **Temple to Mars Maison Carrée** - in Nimes France (Cubic House)

**Tomb of Augustus** - outside the walls in Rome

Ara Pacis - next to his tomb. Altar to Pax Romana

Vitruvius - publishes Ten Books in 25 BCE

Figure 5.1-22 Rome. Transformation of the Republican Forum under Julius Caesar and Augustus.

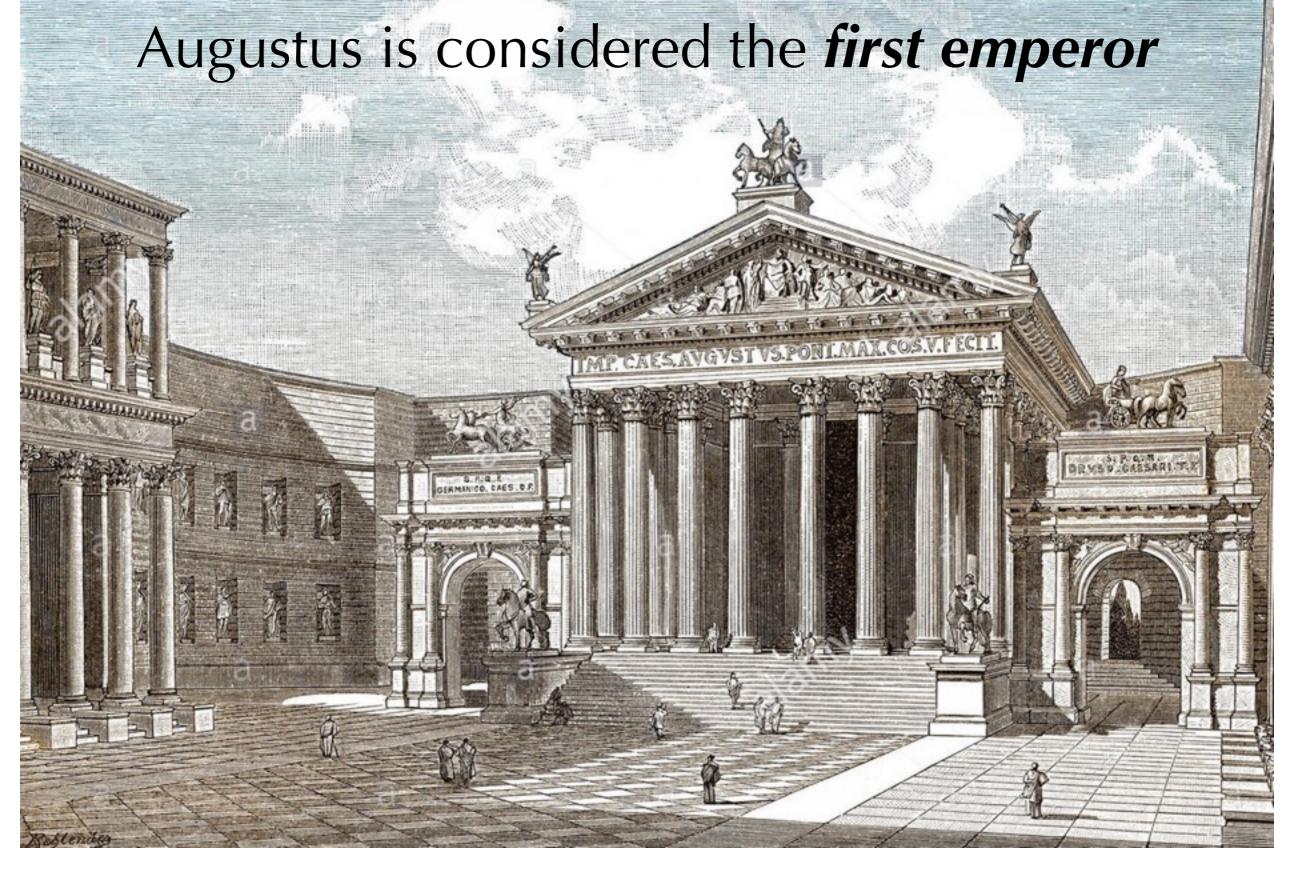


#### Forum of Julius

Inside Julius's forum is the **Temple to Venus** 



Julius Caesar rebuilt the Senate House here. It's called the *Curia Julia* 



Inside Augustus's Forum the principal axis focused on the *Temple to Mars* 



The best preserved Roman Temple of all Maison Carrée in Nimes (South of France) - 002 CE

Dedicated to Augustus and two grandsons





Thomas Jefferson had it copied for the Virginia Capitol

#### MAJOR WORKS BY TRAJAN & HADRIAN

TOMBS OF AUGUSTUS & HADRIAN

#### TRAJAN 98-117 CE

Forum of Trajan

Trajan's Column

**Trajan's Market** (composed of stories of **tabernae**)

HADRIAN 117 - 138 CE

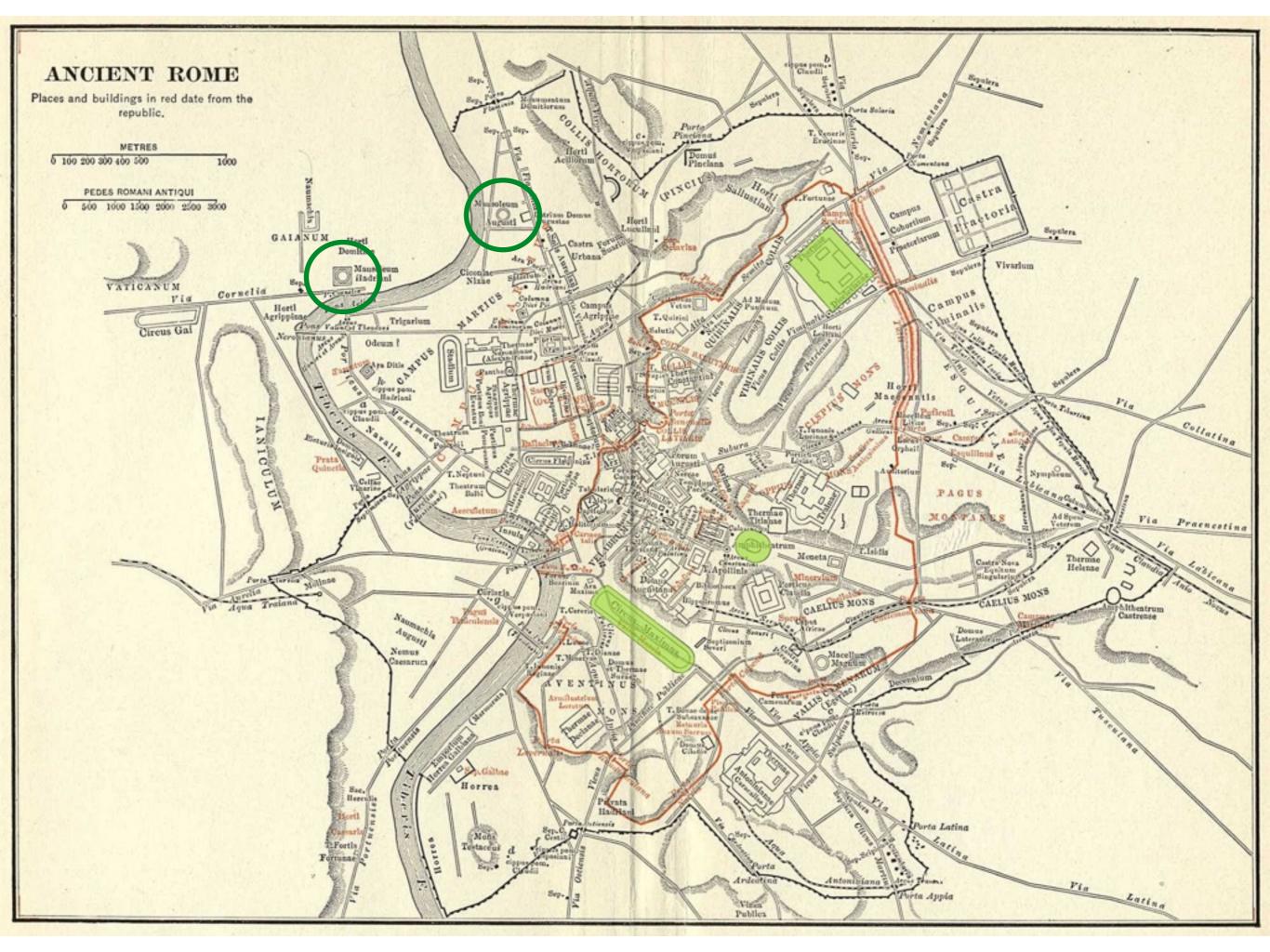
Hadrian's Wall - separating Britain from Scotland

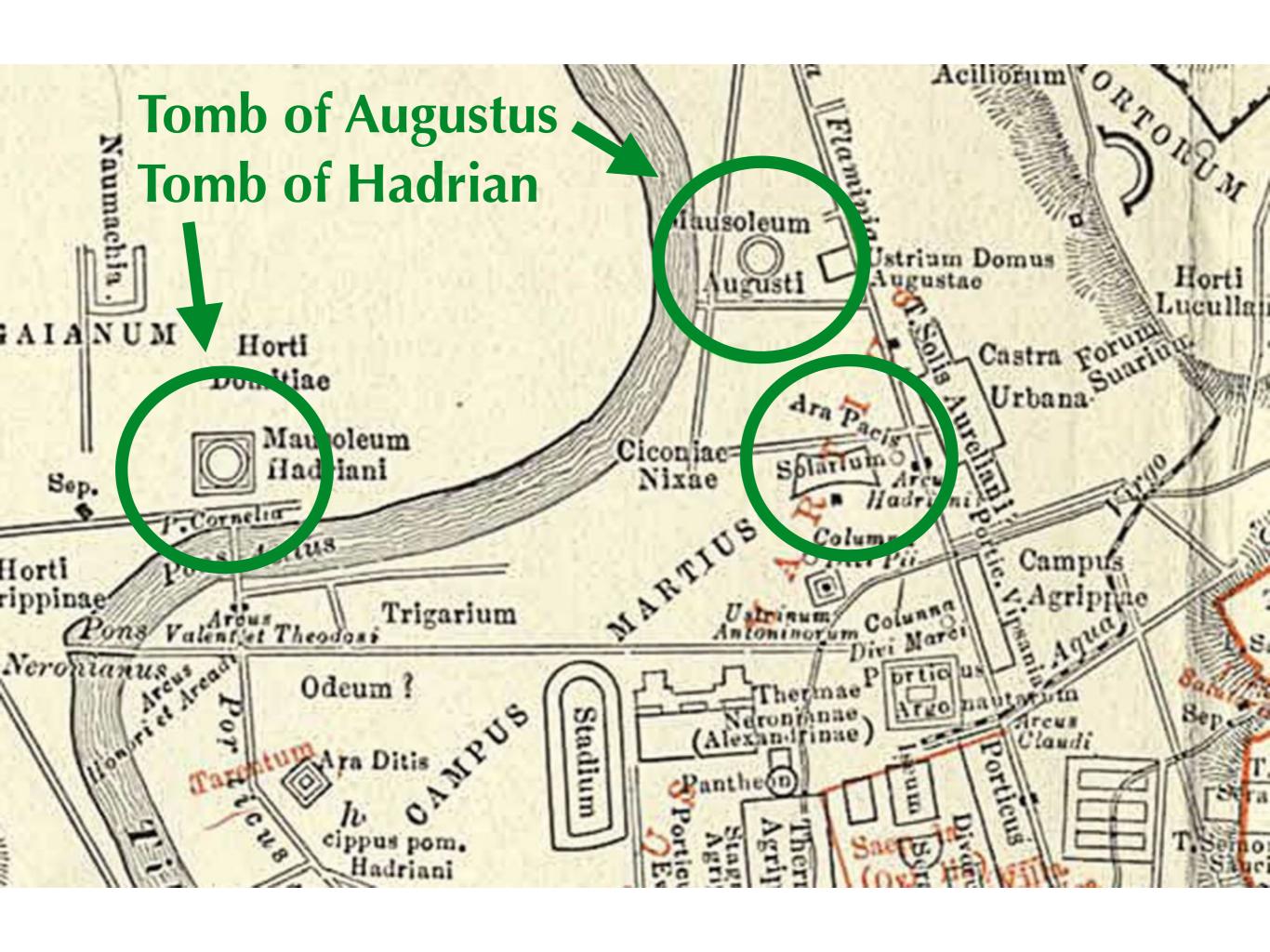
**Hadrian's Villa** - in Tivoli near Rome

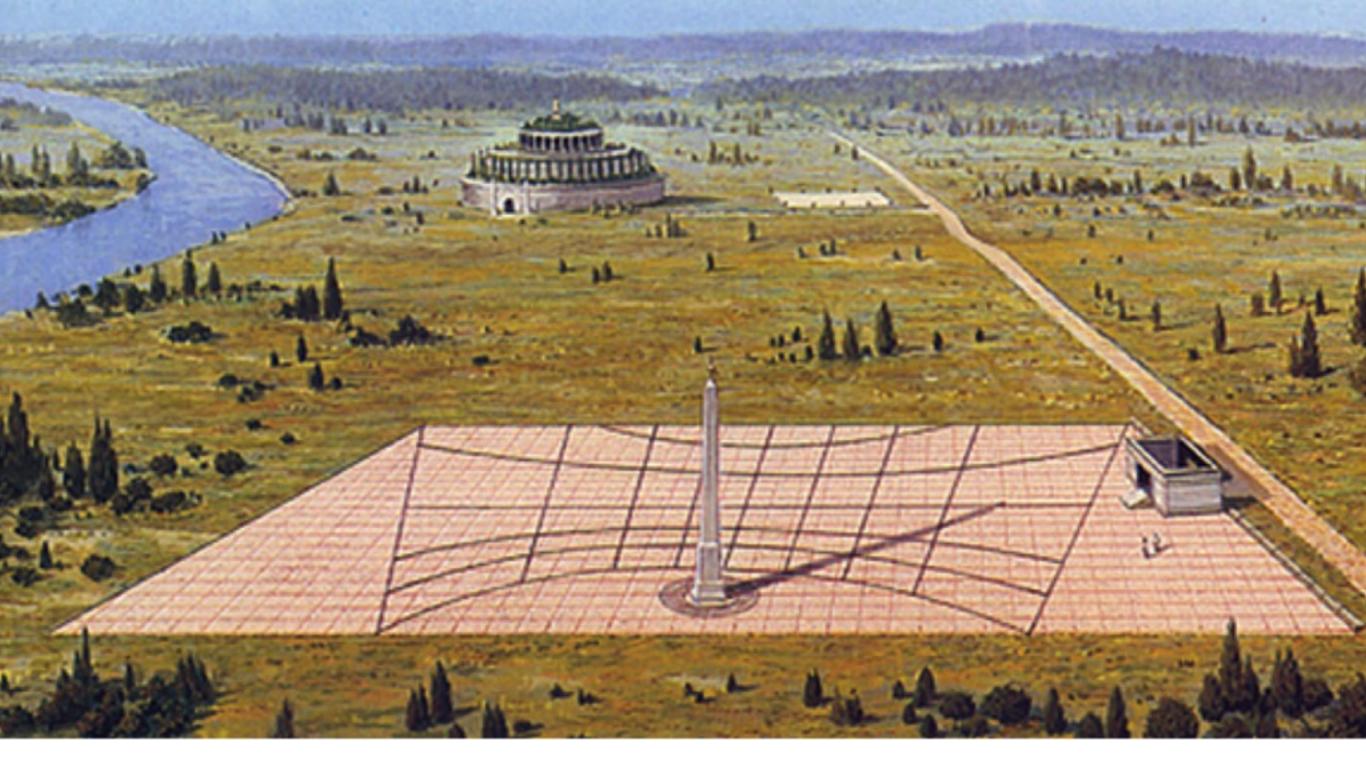
**Pantheon** - best Roman temple in Rome

**Hadrian's Tomb** - now the Castle Sant'Angelo

Temple of Venus & Rome





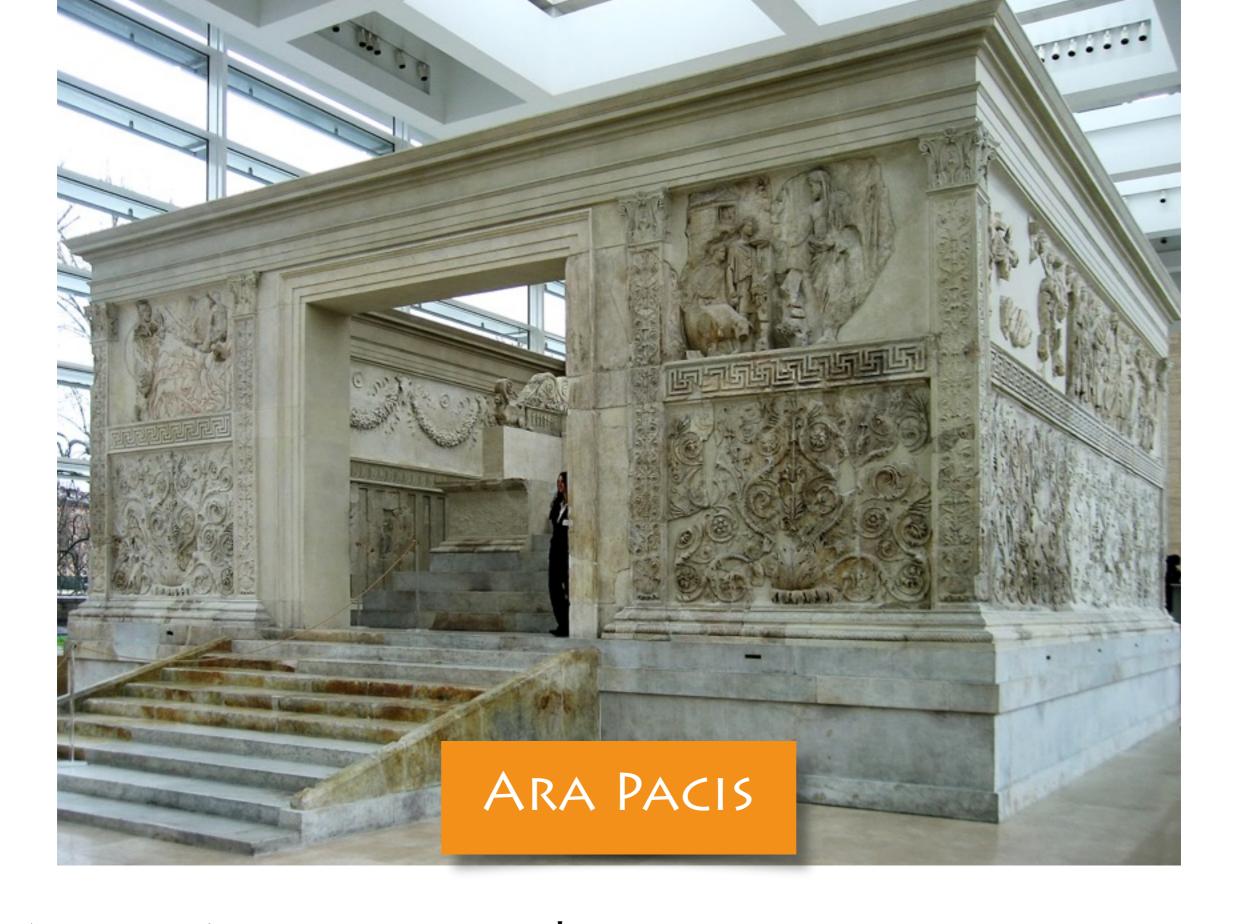


**Tomb of Augustus** 

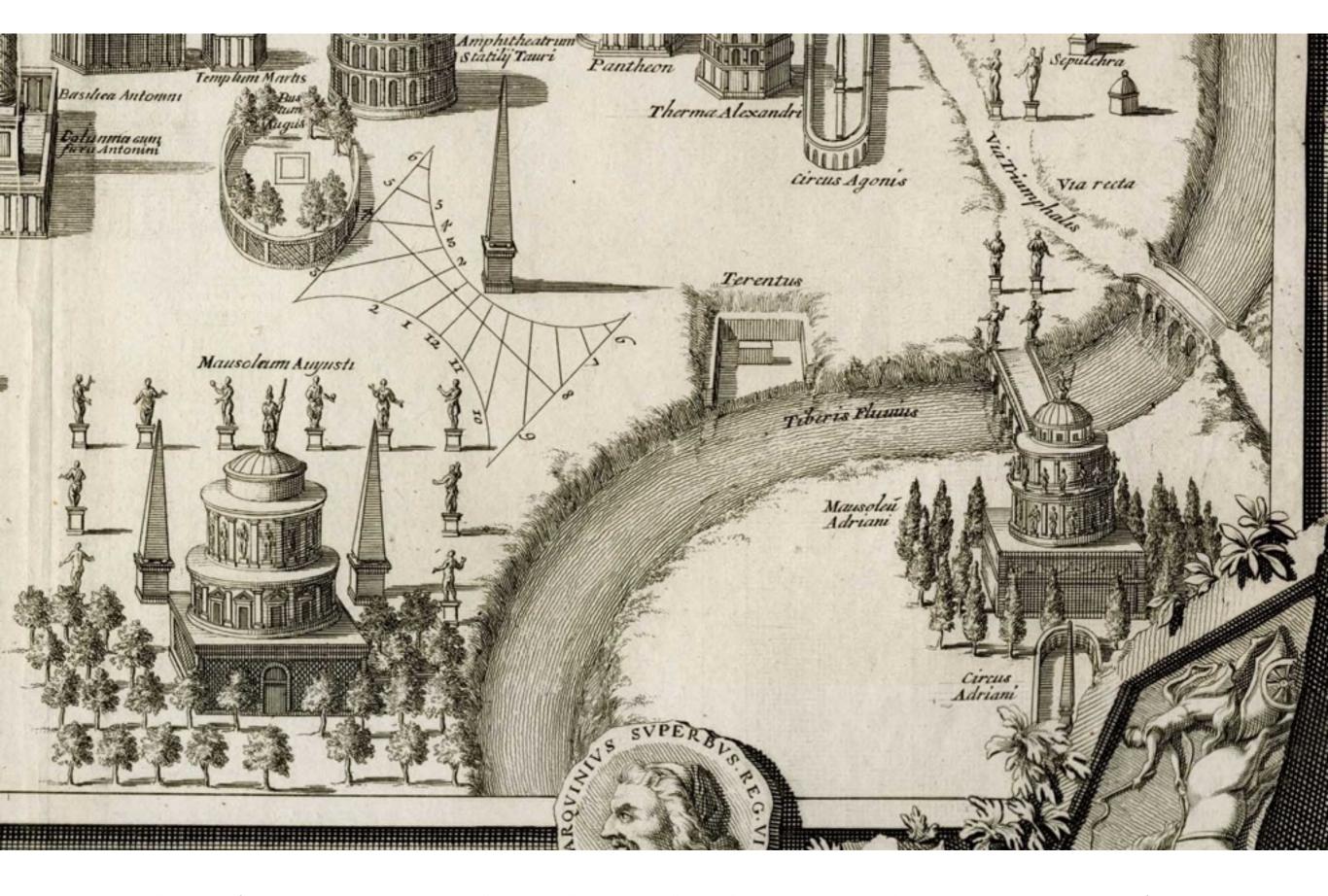
Solarium and the Ara Pacis (Pax Romana) in foreground



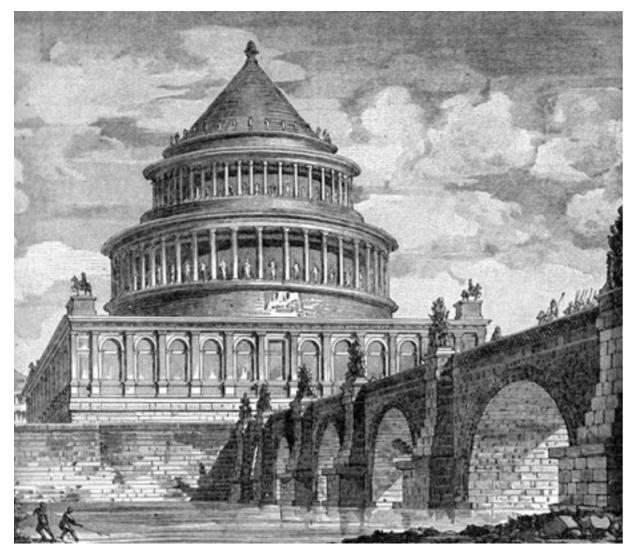
TOMB OF AUGUSTUS



Augustus's monument to The Roman Peace or Pax Romana



Tombs of Augustus and Hadrian (looking south - opposite of map)



# Hadrian's Tomb is now the Castel Sant' Angelo

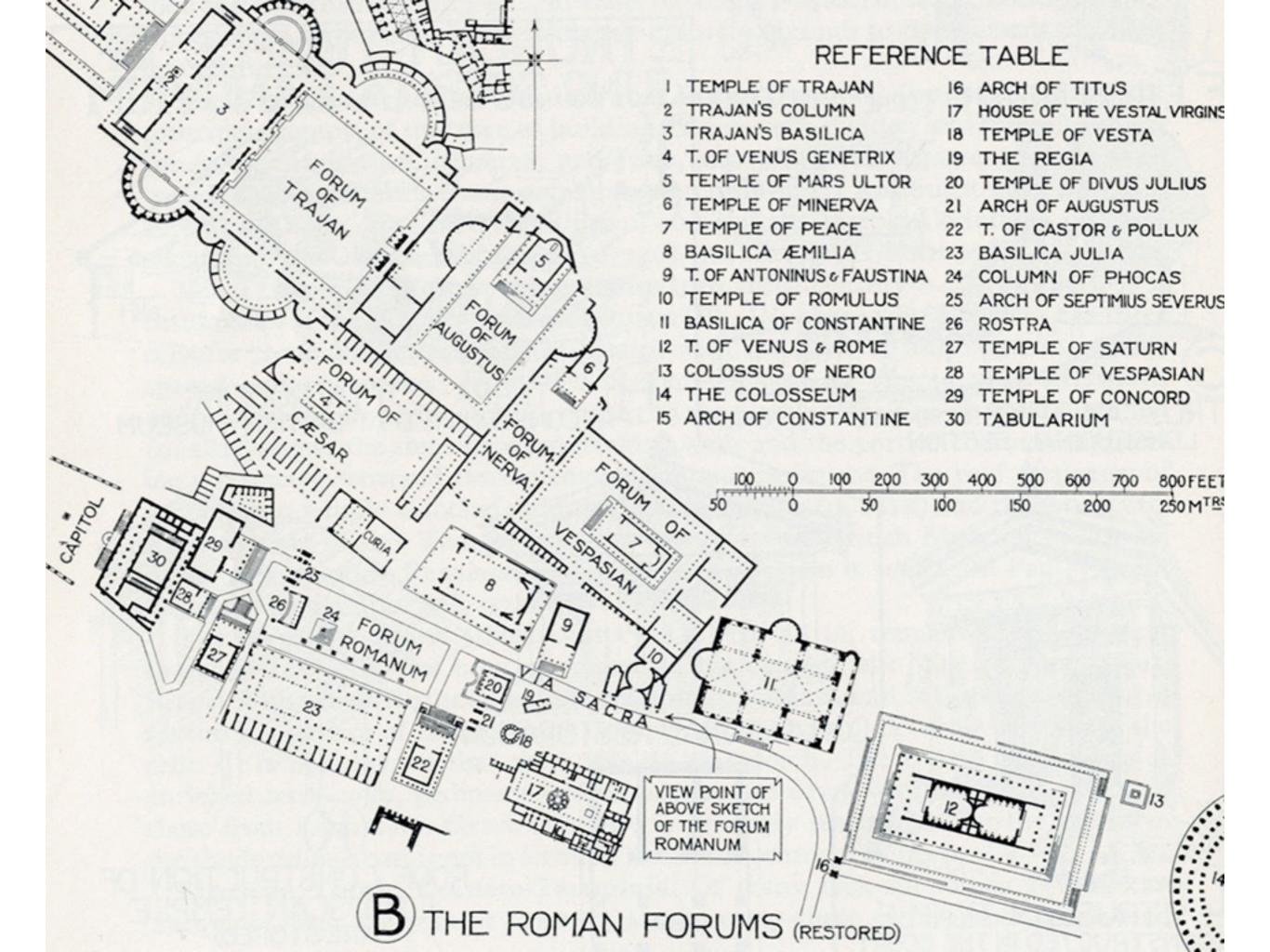


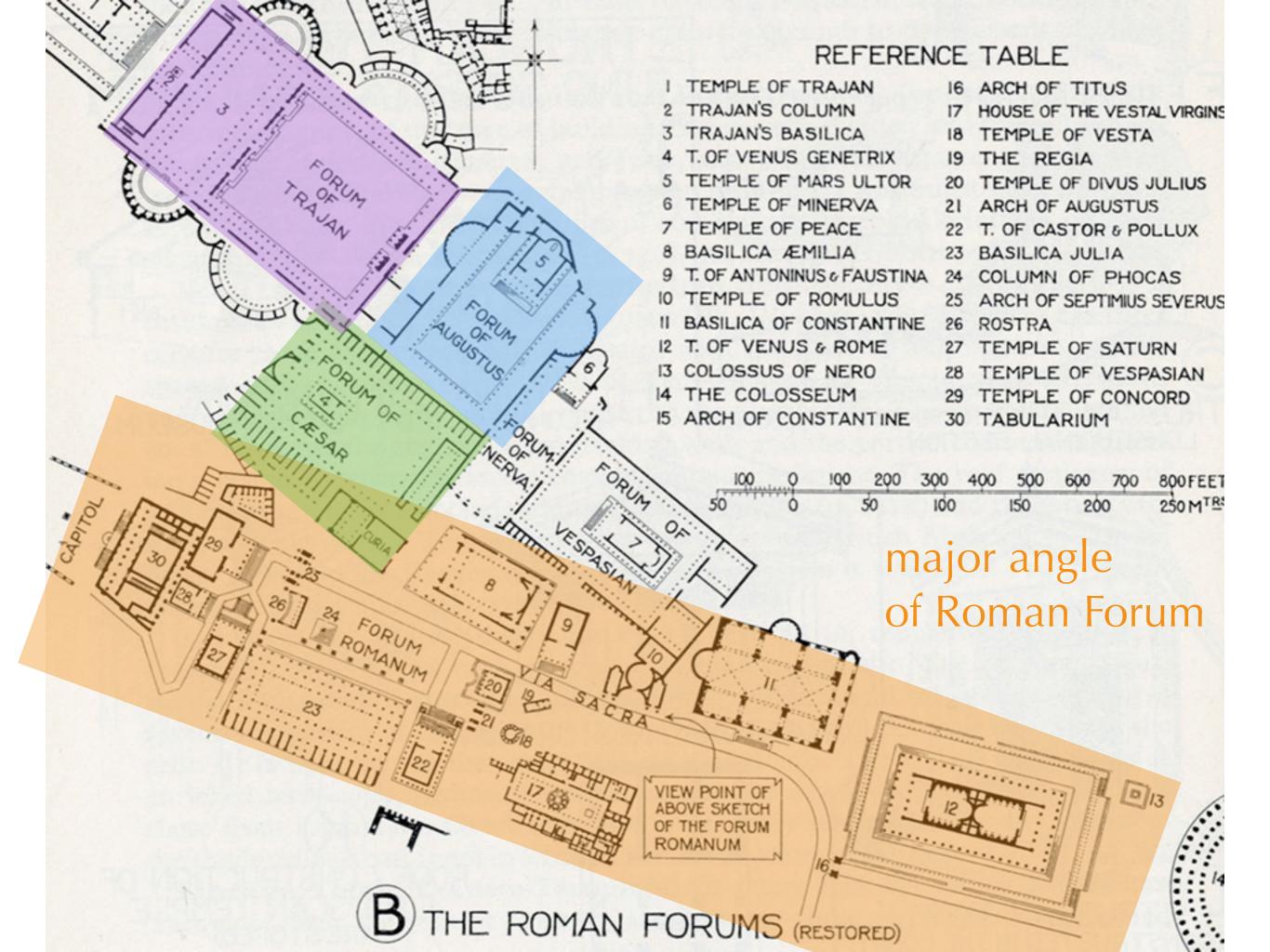


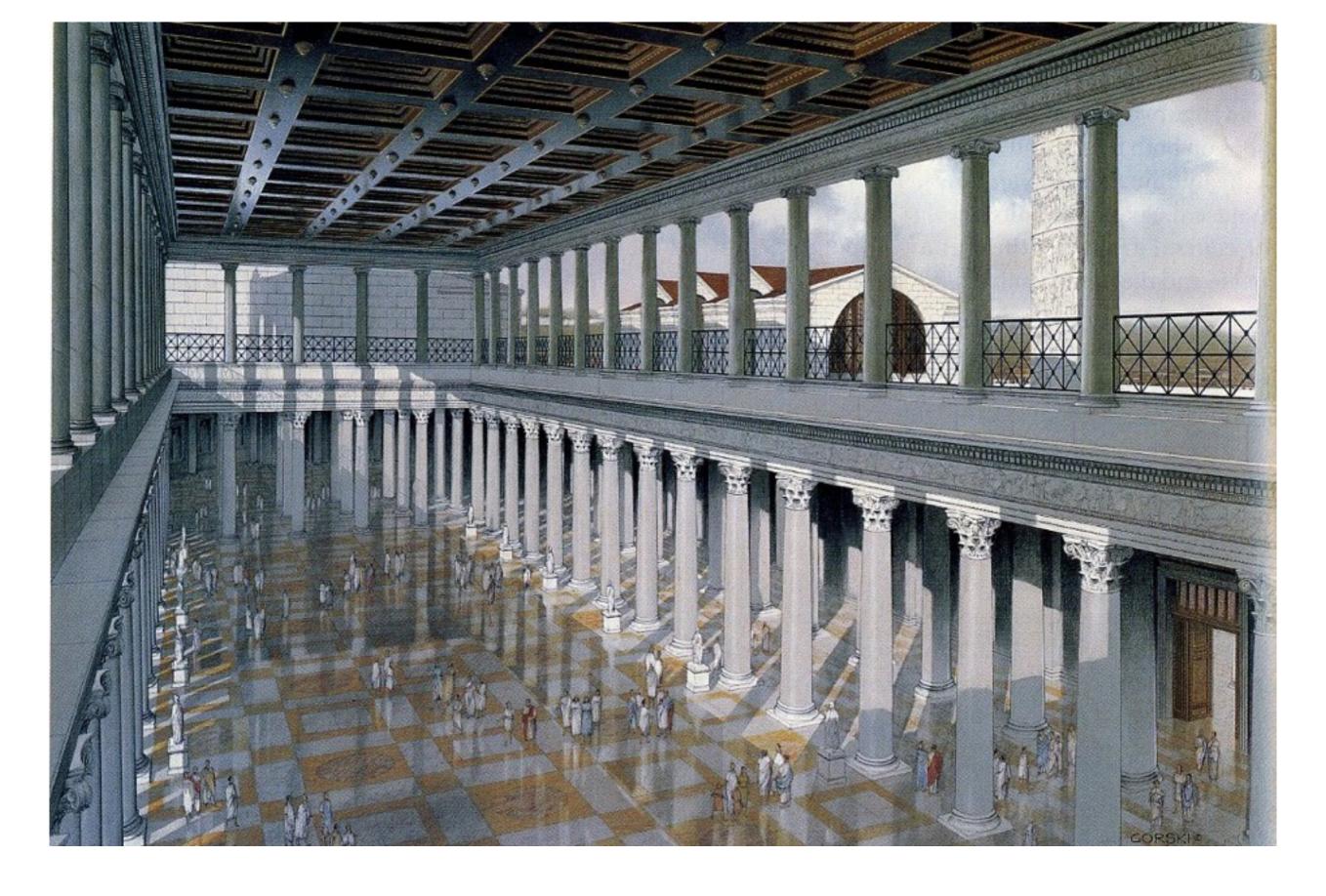
Vitruvius's Ten Books of Architecture - 25 BCE

~ The first architectural treatise ~

Vitruvius dedicated the book to Augustus



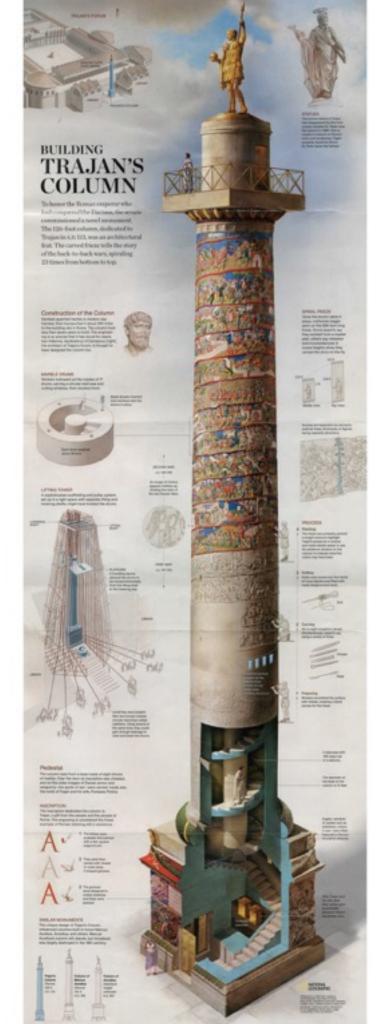




Trajan's basilica inside Trajan's forum

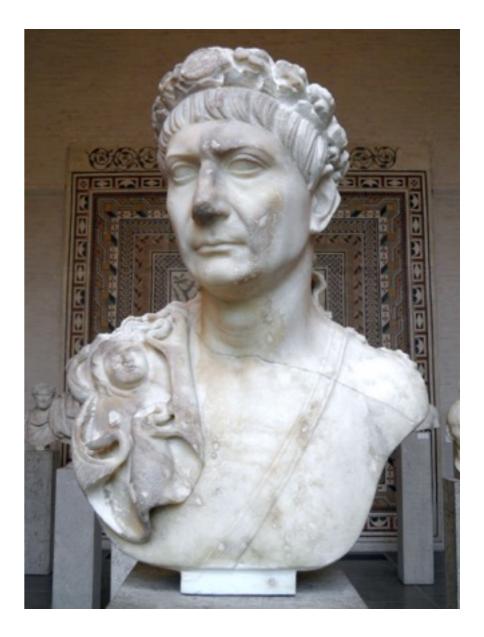


### Trajan's Column



## TRAJAN'S COLUMN

History carved all the way up

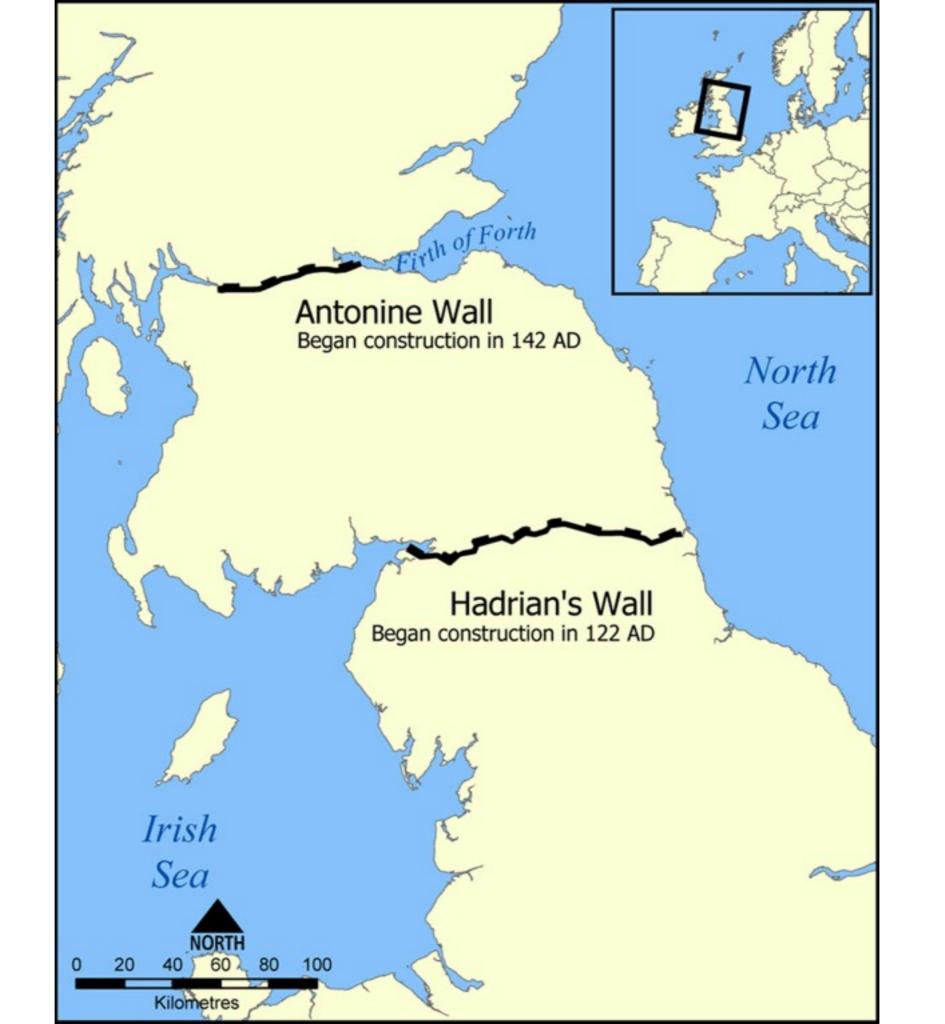


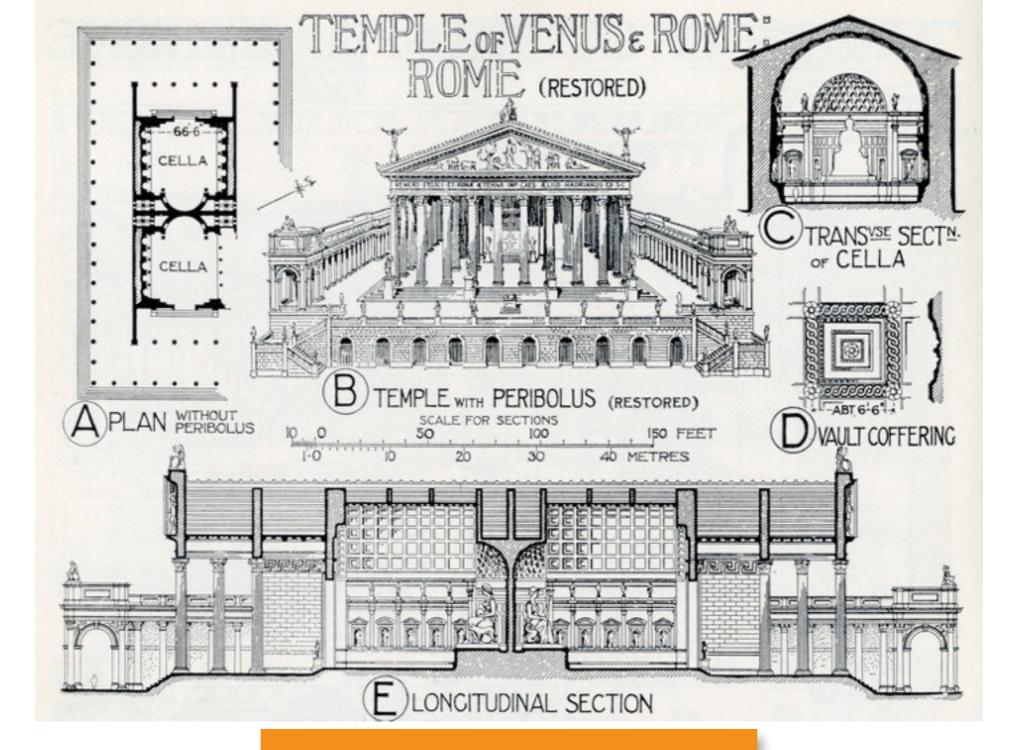


Only remains of Trajan's Forum is *Trajan's Column* and *Trajan's Market* (for the lower classes)









ROMA < > AMOR

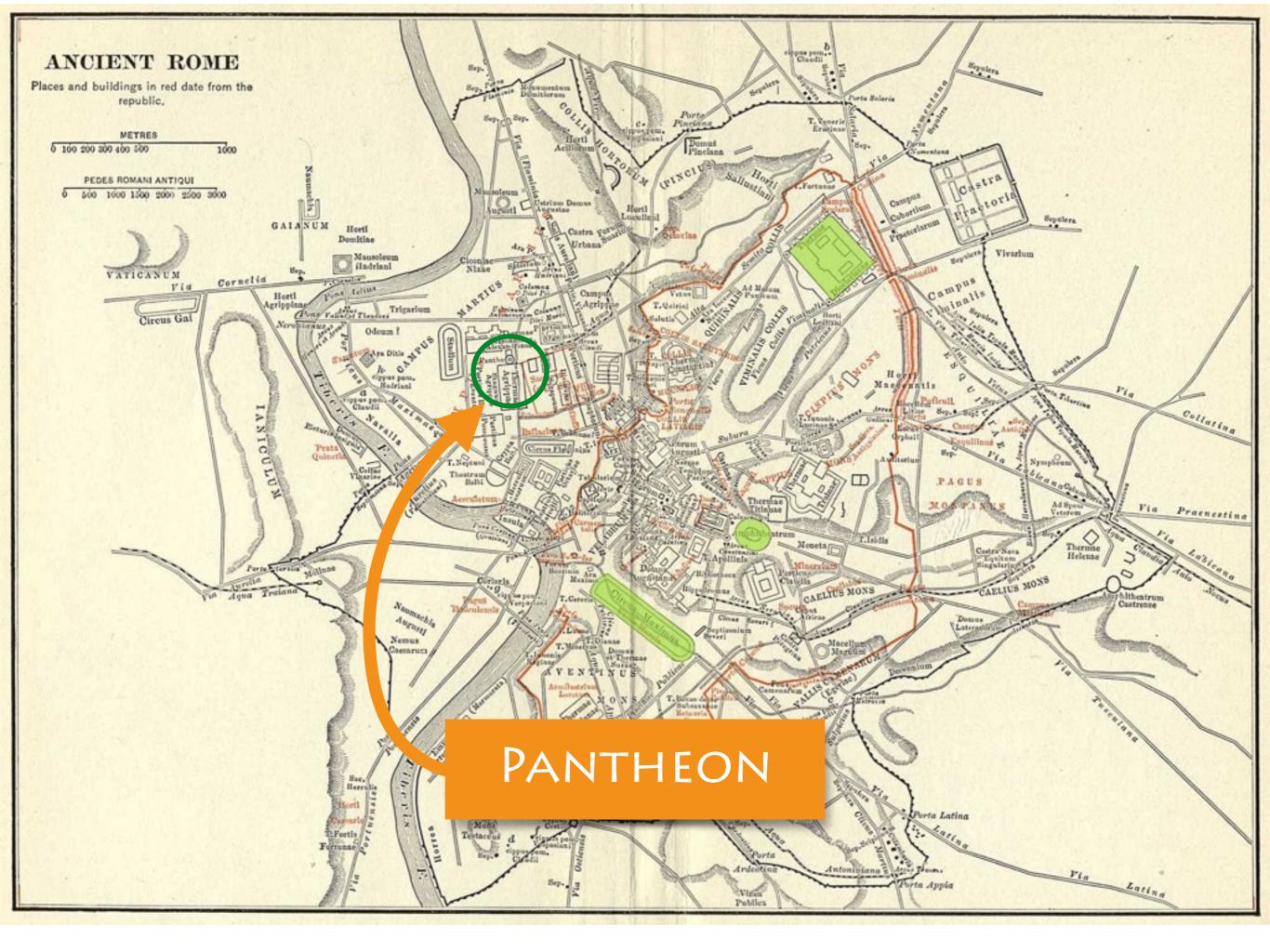
#### Hadrian 135 CE

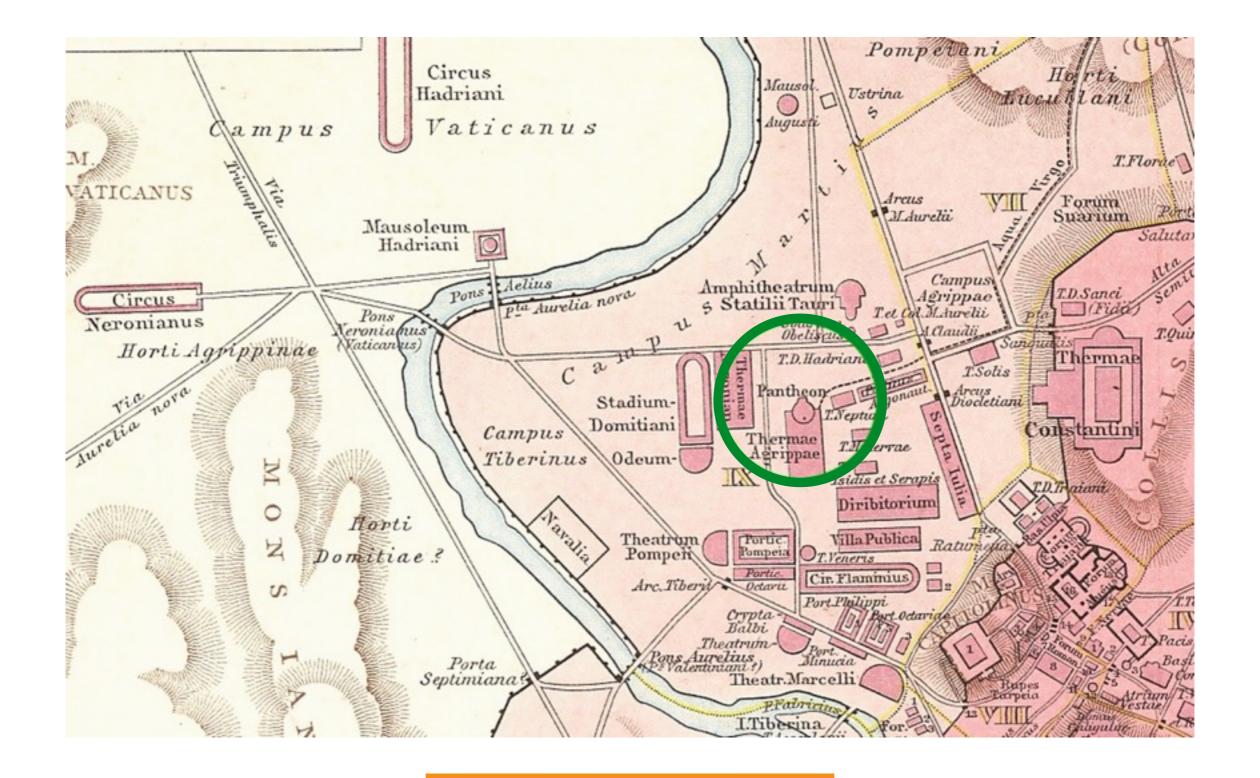
(it's a pun and palindrome)

Goddess Roma (Roma Aeterna) sits back-to-back with Goddess Venus (Love)



City of Love? Paris and Rome will have to mud-wrestle over this title



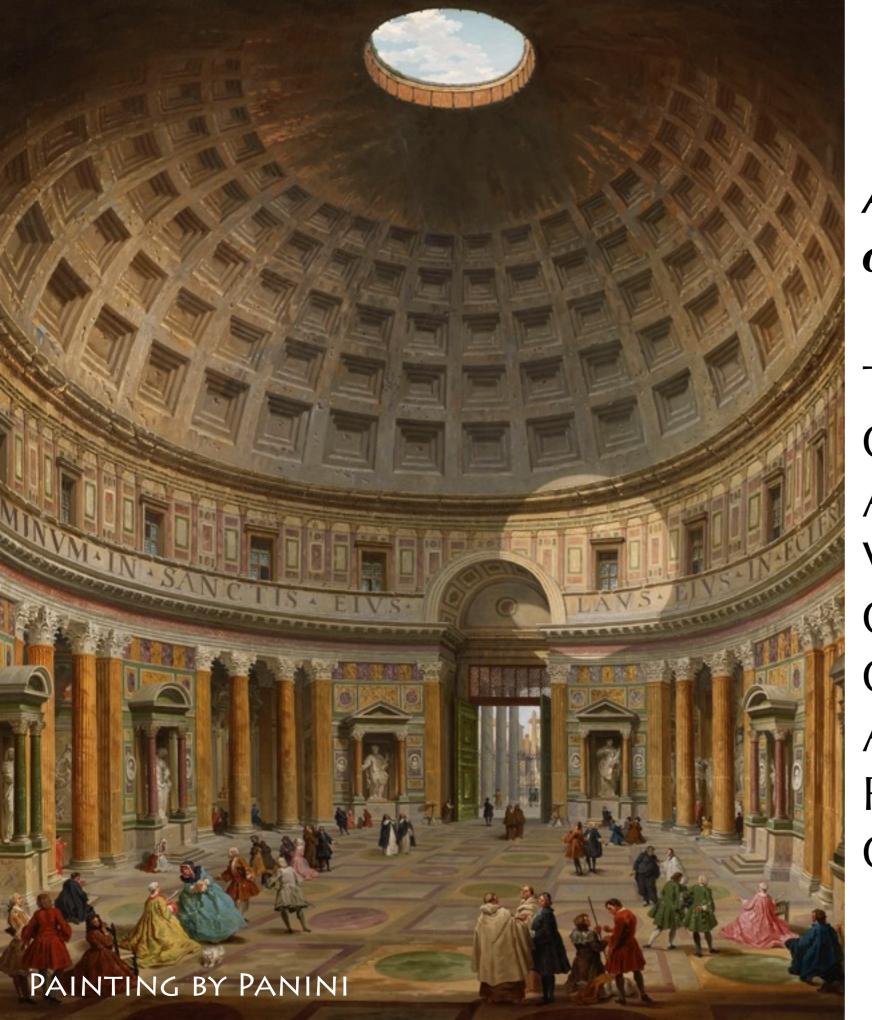


#### PANTHEON

Built by Hadrian about 126 CE

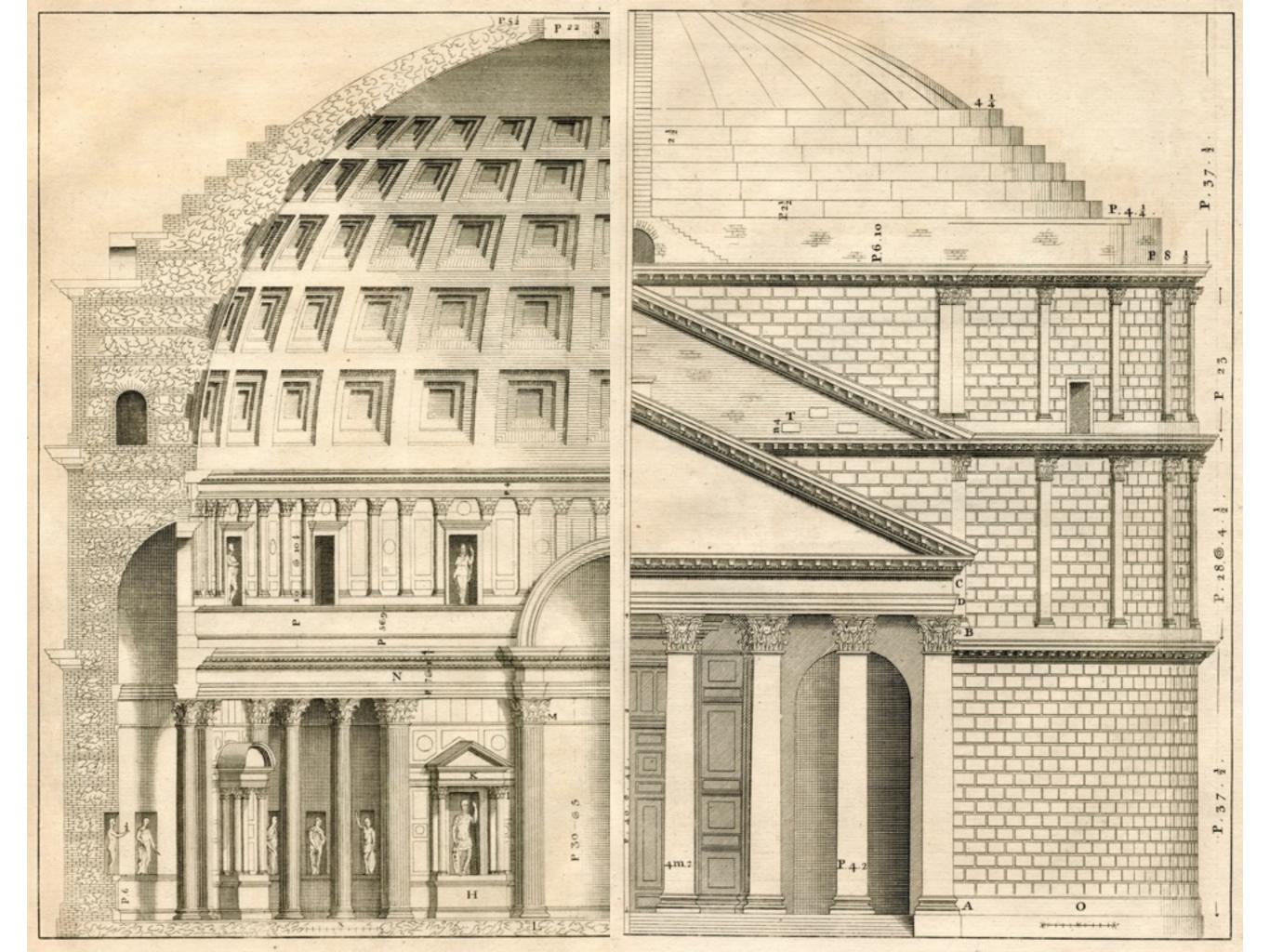


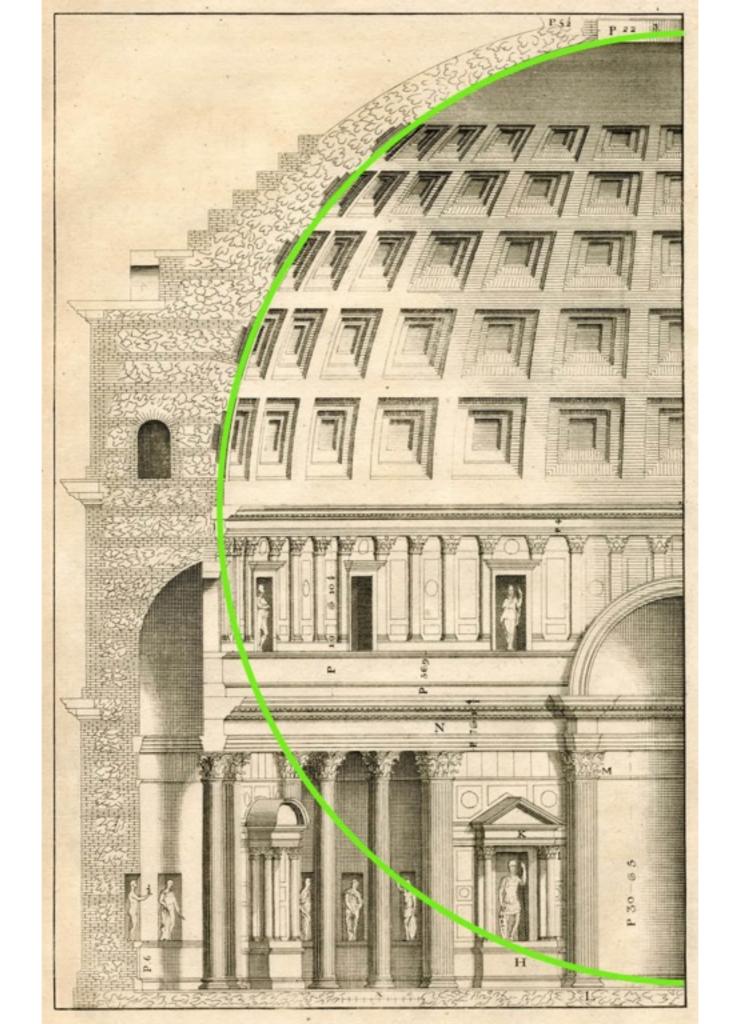
Begun by Marcus Agrippa 27 BCE - 14 CE. Hadrian reused the porch elements from the burned Agrippa temple. Columns of single blocks of Egyptian granite.



### A veritable dictionary of Roman construction

Trabeated // columnar
Corinthian octastyle
Arched
Vaulted
Concrete
Coffers
Aedicules (tabernacles)
Roman brick construct.
Oculus

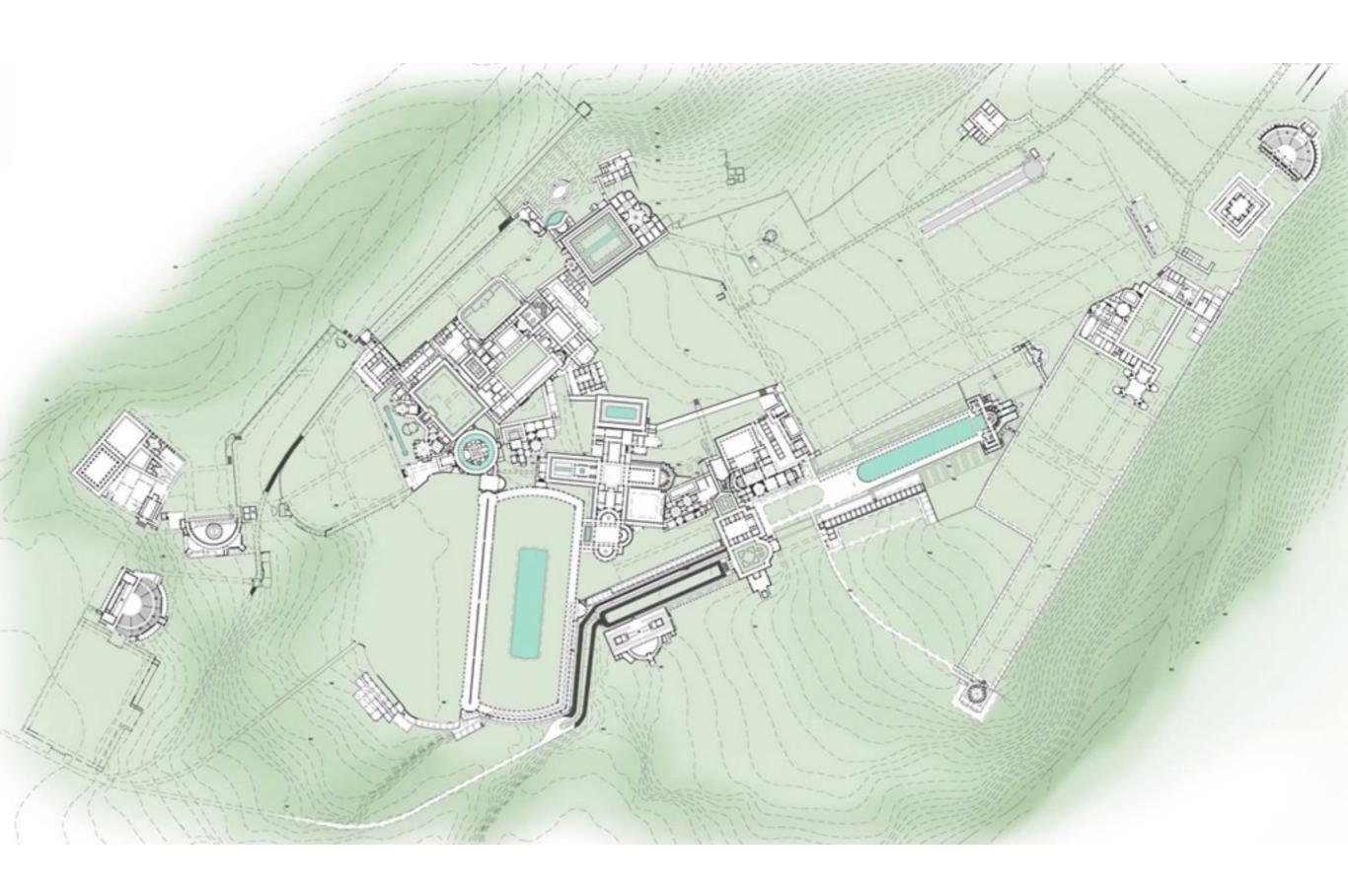




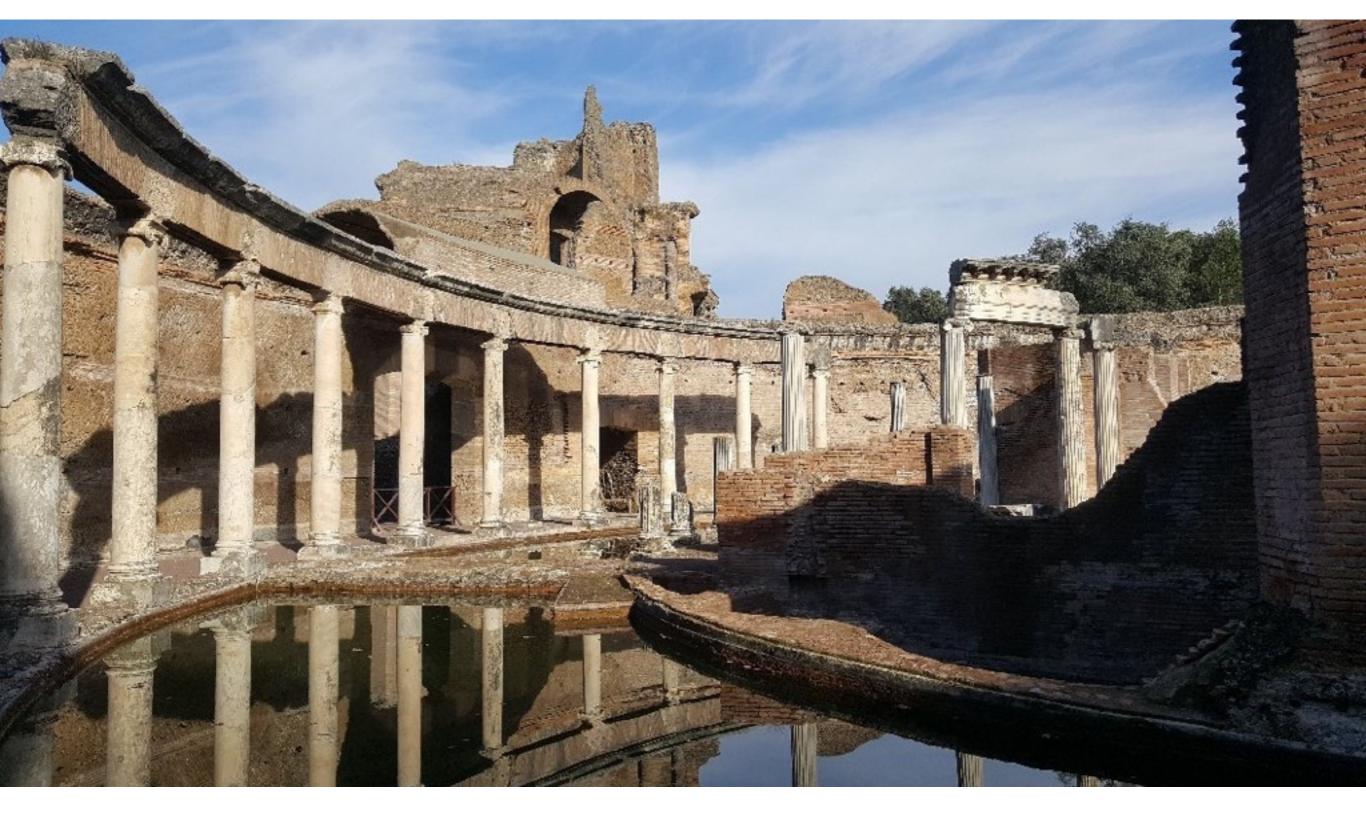


One-half scale version of Pantheon built at UVa by Thomas Jefferson hexastyle instead or octastyle / windows added

end



Hadrian's Villa in Tivoli 120 CE



Nautical Theater at Hadrian's Villa



The *canopus* - one end



The *canopus* - the other end