The Decapolis: History and Archaeology

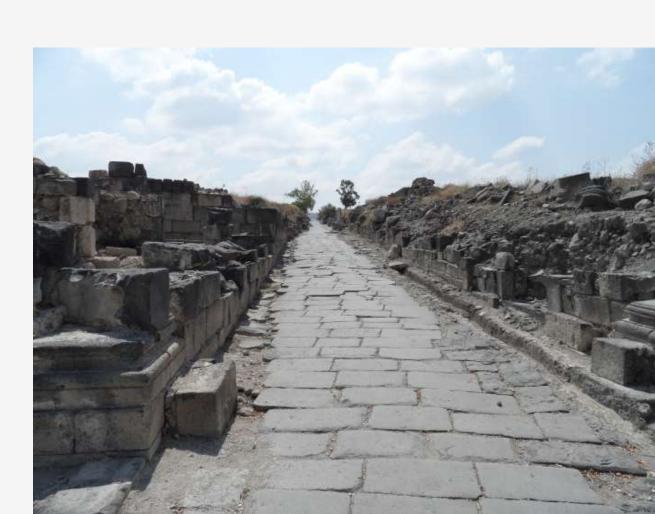
5 Archaeology of the Roman period I – Urbanism, Fortifications, Public Spaces

SEGAL, A. 1997: From Function to Monument: Urban Landscapes of Roman Palestine, Syria and Arabia. Oxford.

- Urban planning
- Spatial organization of the city (cityscape)
- Development of urban structures
- Interaction between inhabitants and the built environment

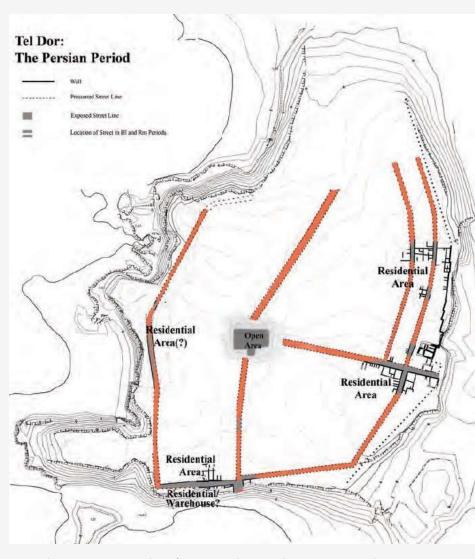
Cities of Roman Levant

- City plan street grid, insulae
- Colonnaded streets
- Agorai/fora
- Functional division?
- Origins, functions, meanings...



Cities of Roman Levant

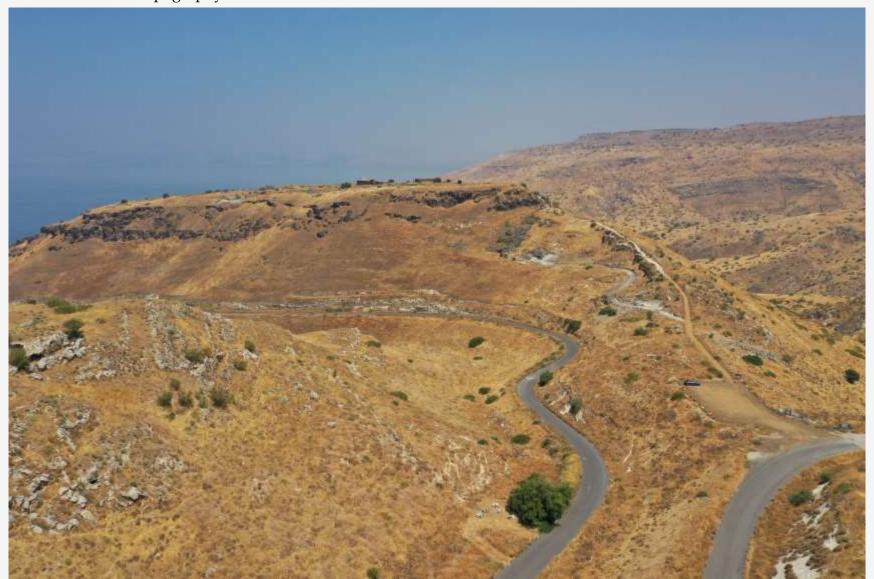
- Hellenistic planning known only from limited examples
- Tenets of Hippodamian plan probably adopted
- But urban planning not unknown prior to the Hellenistic period
- Urban renewal in the Early Roman period
- The Early Roman city plans might give us idea about the Hellenistic origins (in some cases)
- Gradual development of the public space until the $4^{\rm th}$ c. CE



Tel Dor – Example of city with regular street grid (adapted to local topography of the tell) in the Persian and Hellenistic period

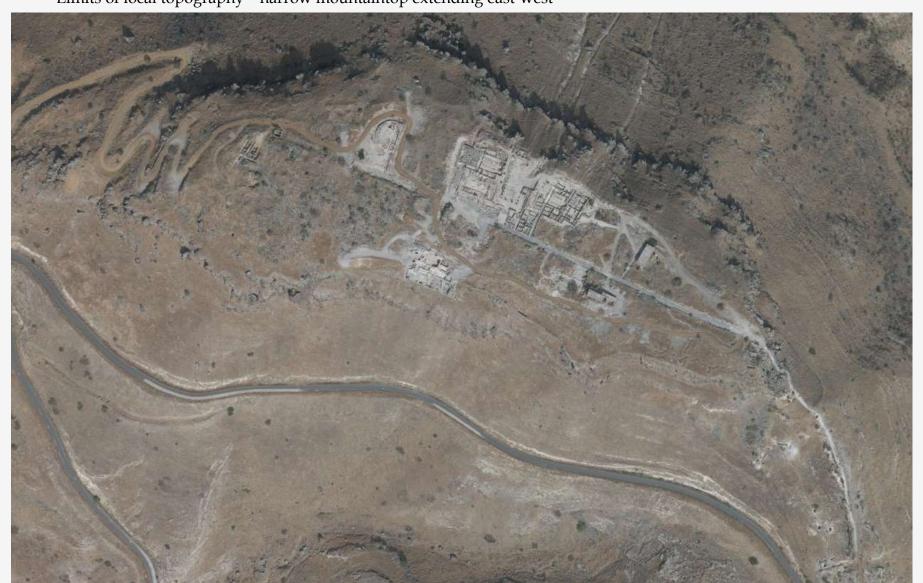
Hippos

• Limits of local topography



Hippos

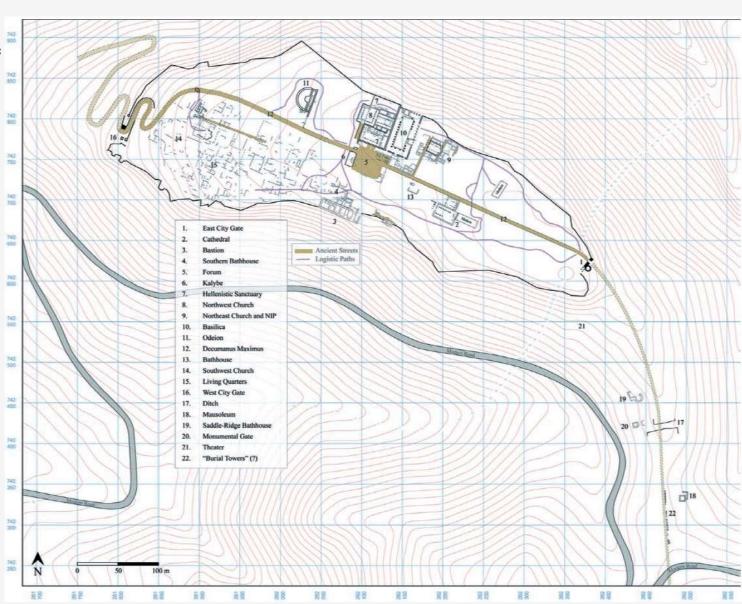
• Limits of local topography – narrow mountaintop extending east-west



Hippos

Decumanus maximus(east-west street)500 m+

- Rectangular street plan
- Agora/forum

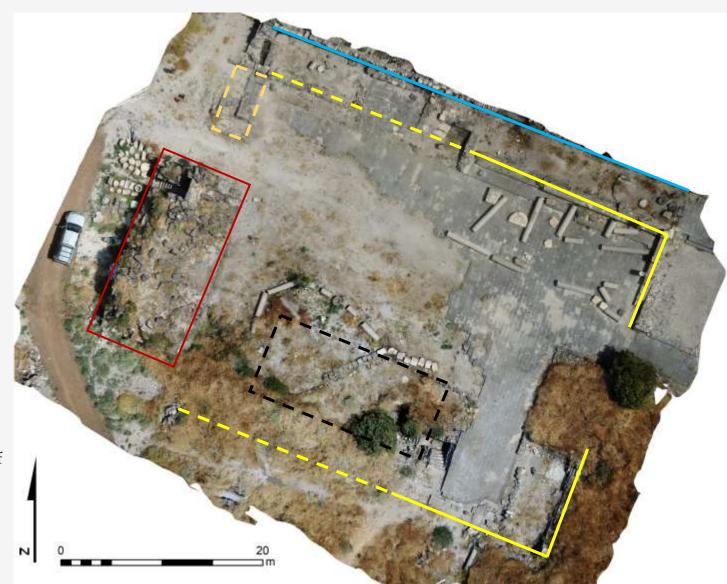


Hippos

• "Civic centrum" – agora/forum with concentration of public buildings



- Forum (50x38.5 m)
- Porticoes on three sides (yellow)
- Water reservoir (black)
- Kalybe (red)
- Arch next to kalybe? (orange)
- Blue Hellenistic temenos
- Current form laid out in the early 1st c. CE
- Paved at the second half of the 1st c. CE
- Porticoes at the end of the 2nd/beginning of the 3rd c. CE



- Forum
- Single-passage arch ca. 7 m to the east of the forum
- Possibly another at the west end of the forum



- Forum
- Arch ca. 7 m to the east of the forum
- Possibly another at the western end of the forum



- Forum
- Honorific inscriptions, podia for sculptures





- Decumanus Maximus
- Basically same development and dating as the forum



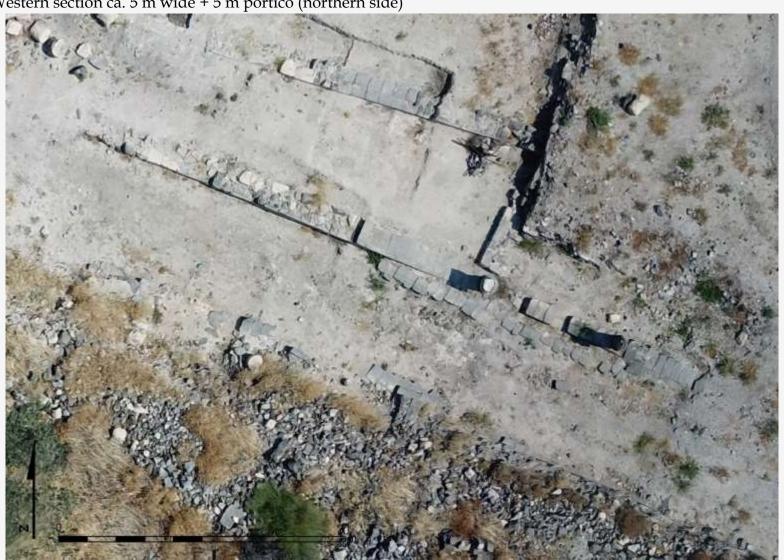
Hippos

- Decumanus Maximus
- Eastern section ca. 4 m wide

• Some evidence for porticoes



- Decumanus Maximus
- Western section ca. 5 m wide + 5 m portico (northern side)



- Decumanus Maximus
- Western section ca. 5 m wide + 5 m portico (northern side)



- Cardines (north-south streets)
- Western *cardo* remains ca. 3 m wide

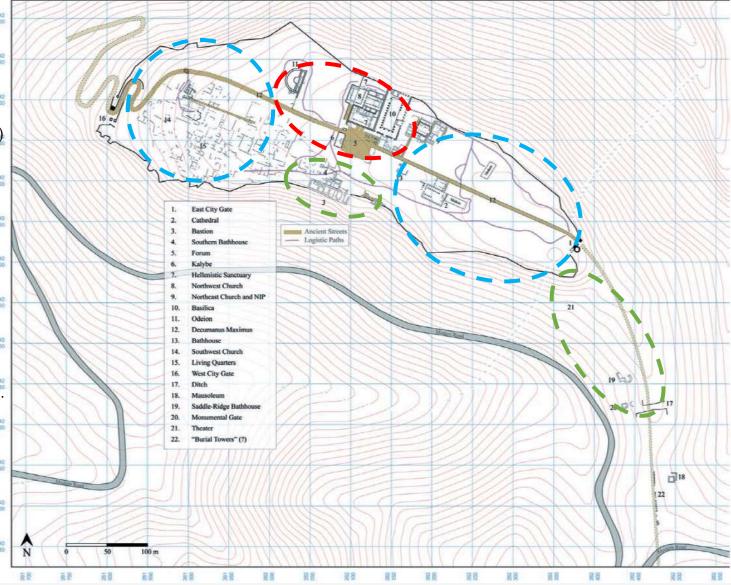


- Cardines
- Eastern C. (North-east Insula)



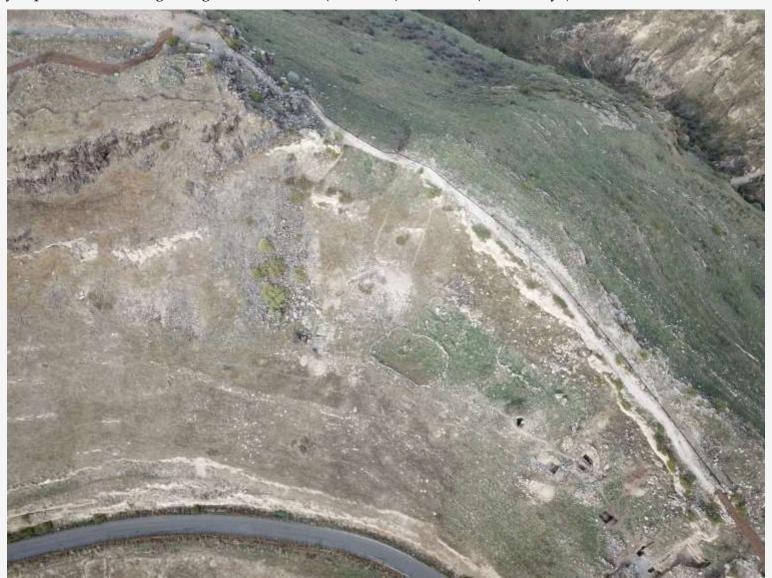


- Functional division?
- "Civic center" (red)
- Living quarters (blue)
- Baths/entertainment (green)
- But commercial
 activity spread along
 the length of the
 decumanus
- City expansion in the beginning of the 2nd c.
 CE (Hadrian?)



Hippos

• City expansion in the beginning of the 2^{nd} c. CE (Hadrian?) – Theater (+sanctuary?), baths



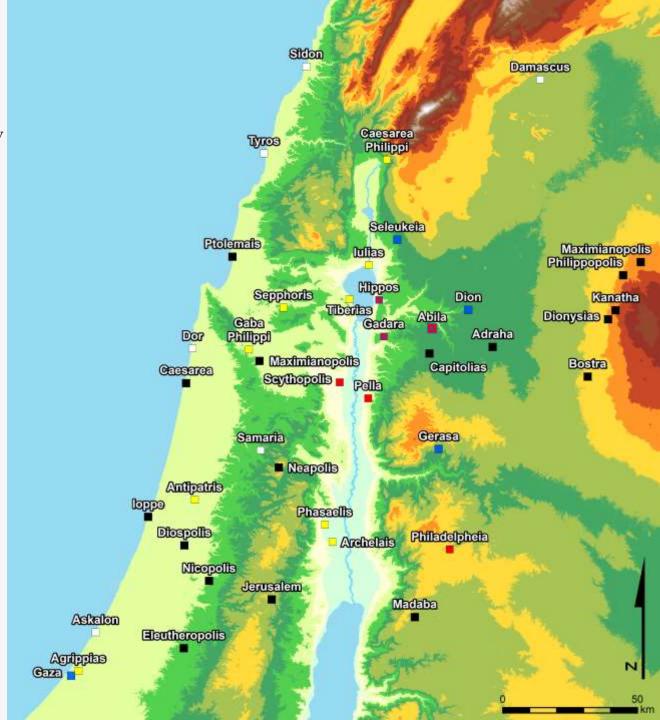
Hippos

• City expansion in the beginning of the 2^{nd} c. CE (Hadrian?) – Theater (+sanctuary?), baths



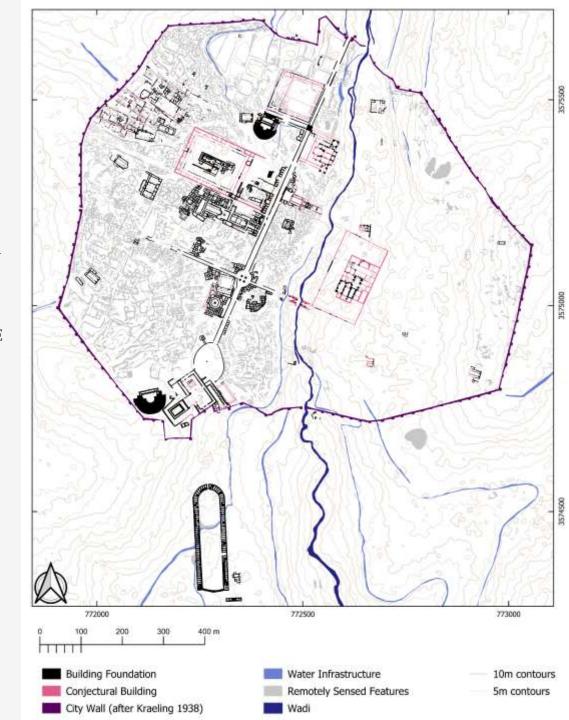
Other cities

- Most of them expand massively compared to the Hellenistic settlement
- We may assume completely new urban plan in the Early Roman period
- Layout similar to Hippos
 - One major colonaded axis (cardo/decumanus)
 - One major public space/centre



Gerasa

- Oval plaza paved ca. 28 CE (new naos of Zeus)
- Cardo laid and paved in the late 1st c. CE
- Porticoes early 2nd c. CE Ionic
- Widening between 150-180 CE (construction of the Temple of Artemis) – Corinthian
- Tetrapylon and Quadrifrons also 150-180 CE
- Circular plaza around southern tetrapylon end of 2^{nd} /early 3^{rd} c. CE
- I.e. Hippodamian plan (insulae) late?
- Much of it can be connected to the visit of Hadrian in 129/130 CE

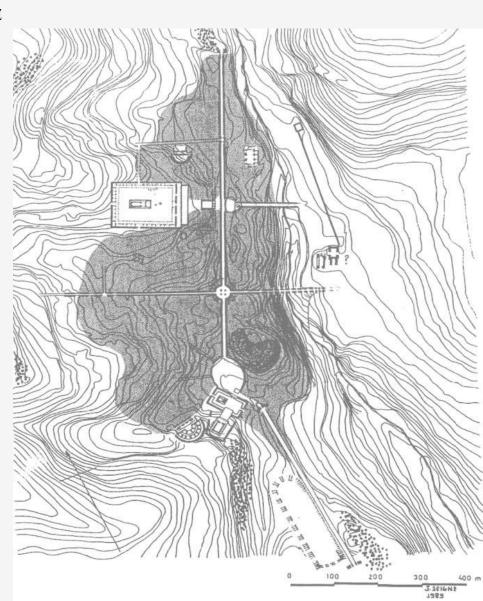


Gerasa

Left – beginning of the 2^{nd} c. CE; right – end of the 2^{nd} c. CE



Fig. 1 — Gerasa. Organisation urbaine supposée vers 130 de notre ère Extension supposé du domaine bâti



Gerasa

- Hadrian's arch
- 460 m south of the southern gate
- 37.5x21.5x9.25 m



Gerasa

• Oval plaza – probably core of the original Hellenistic settlement

Shape is pretty much atypical

• Current pavement 4th c. CE



Gerasa

- Cardo maximus
- Originally 5.4 m + 8 m; widened to 7.6 + 12 m (central section) and 11 + 12 (southern section)



Gerasa

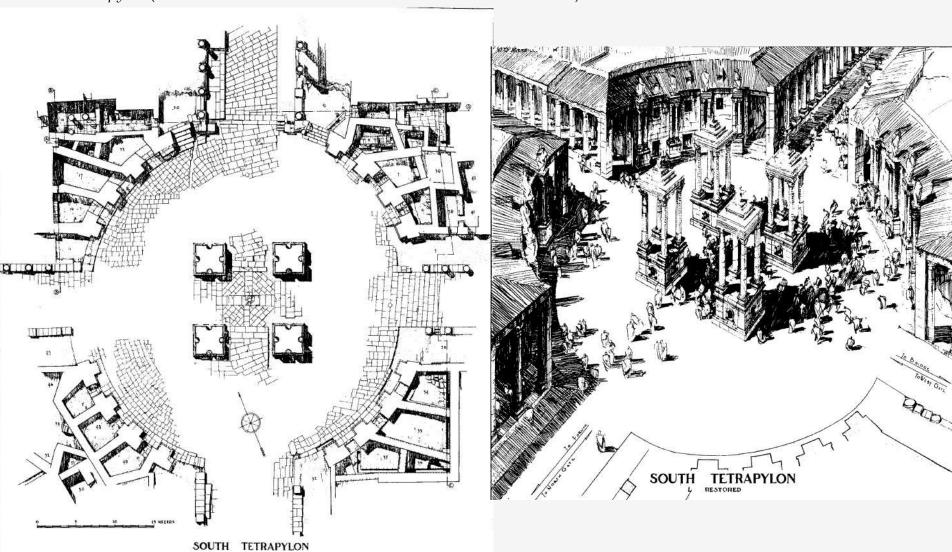
• *Tetrapylon* (on intersection of cardo maximus and southern decumanus)



Gerasa

• Tetrapylon (on intersection of cardo maximus and southern decumanus)

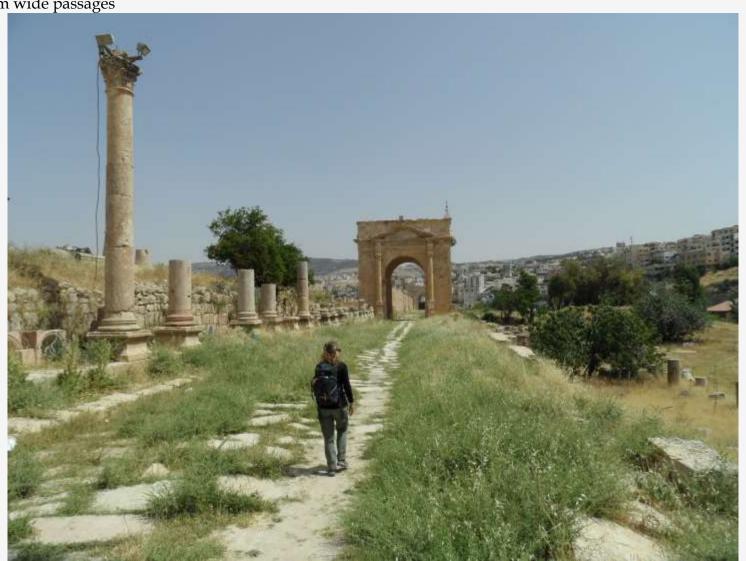
PLAN



Gerasa

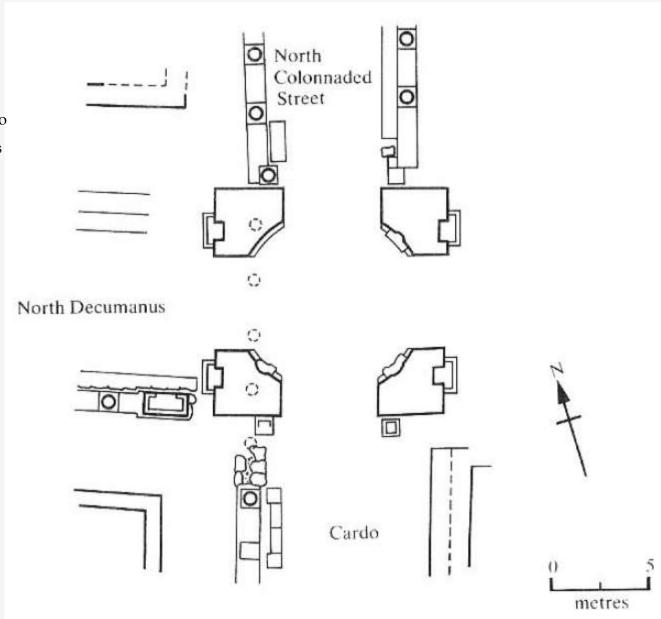
• Quadrifrons

• 5.5 m wide passages



Gerasa

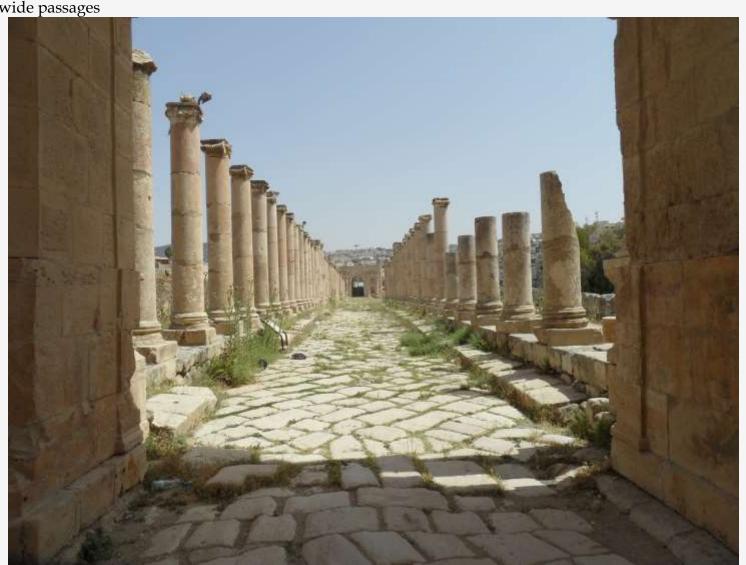
- Quadrifrons
- 5.5 m wide passages
- Note the widening of the cardo to the south of the quadrifrons



Gerasa

• Quadrifrons

• 5.5 m wide passages



Gerasa

• Decumani

• Southern: 7+8 m; northern: 7.6+12 m

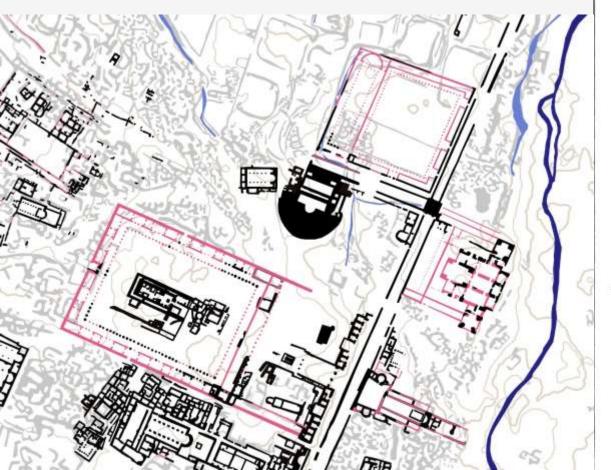
406 m distance

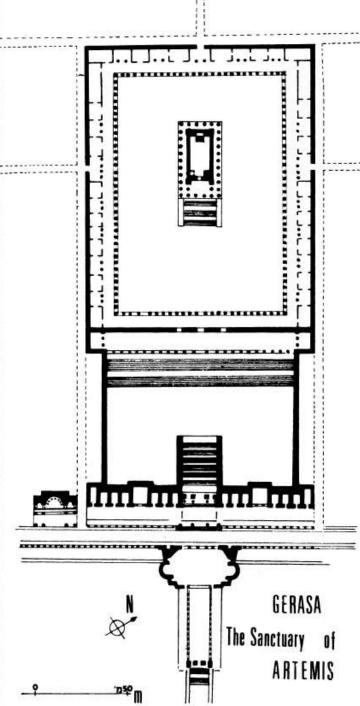
 Looking west along northern decumanus
 Northern theater on the left, agora/forum on the right



Gerasa

- Two new large public spaces
- Northern forum (with n. theater) + Temple of Artemis
- Integrated into the insular grid fabric of the city the temple temenos is helping to create such cityscape





Gadara

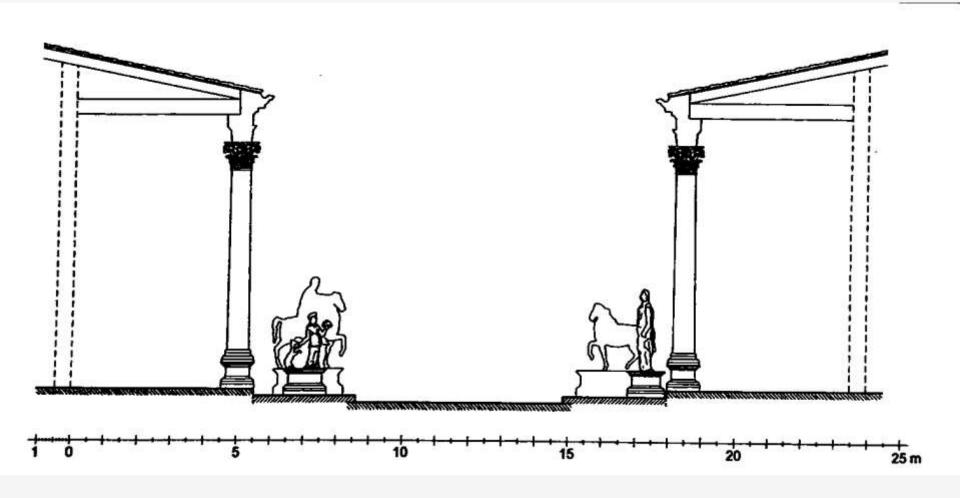
- Decumanus maximus (ca. 750 m in Early Roman period), cardo
- Agora/forum?



Gadara



Gadara



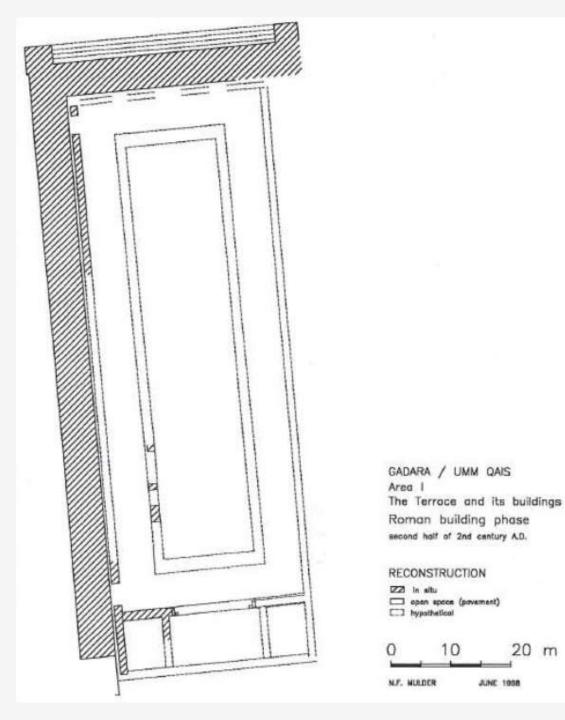
Gadara

- Agora and basilica?
- Market street + "Church terrace"



Gadara

- Agora and basilica?
- Market street + "Church terrace" 2nd c. CE
- Propylaeum of a temple on the Hellenistic acropolis?
- Basilica?



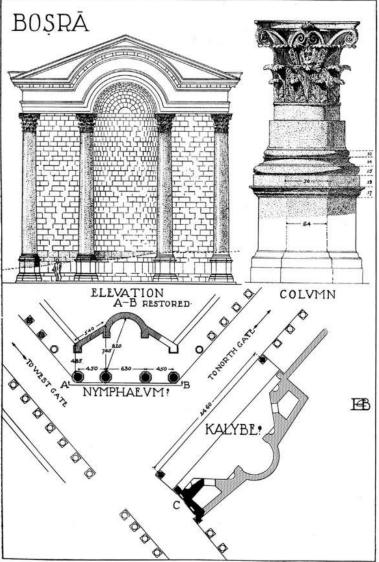
Gadara

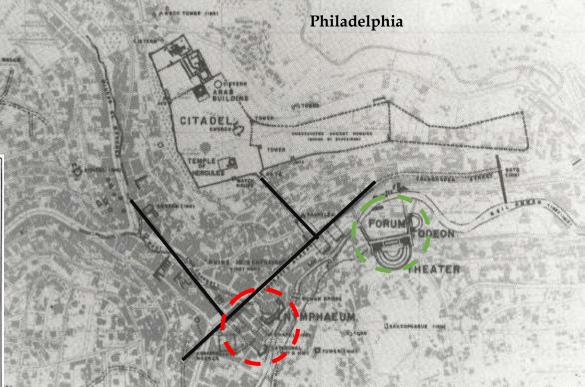
• Market street (cardo maximus) – foundation of the "church terrace"

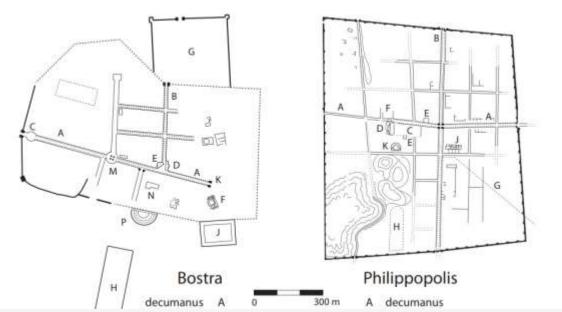


Other cities

- Cardo + decumanus/axial configutration
- Irregular spaces adaptability

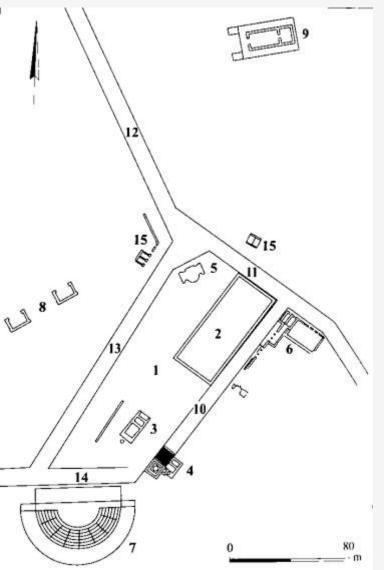




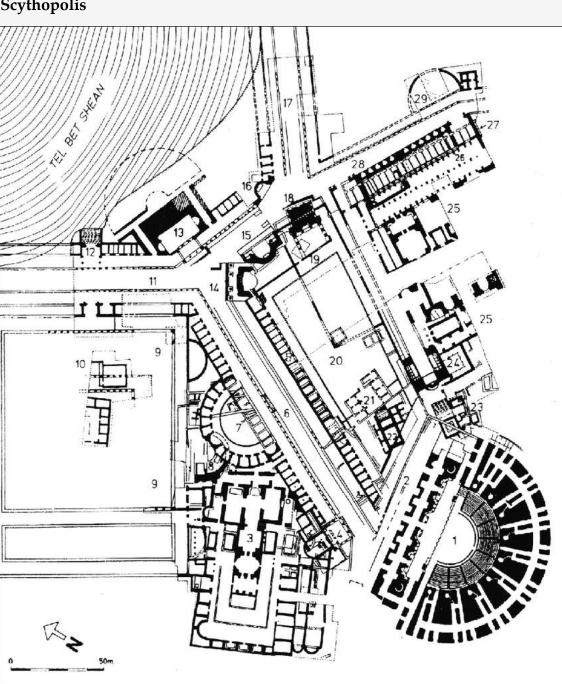


Other cities

- Cardo + decumanus/axial configutration
- Irregular spaces adaptability



Scythopolis



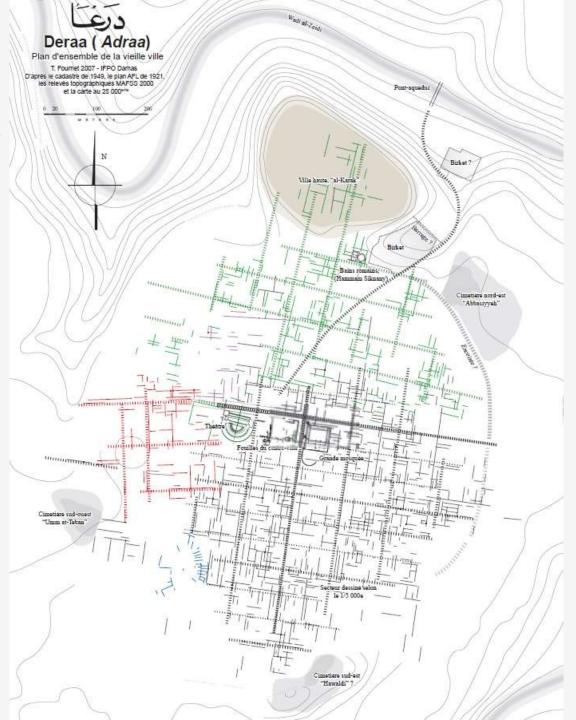


Other cities

 Complicated and long city evolution superimposed plans/city expansion

Adraha-Dera'

- 1. Hellenistic tell+town
- 2. Early Roman extension with new street grid (black)
- 3. Re-alignment of the Hellenistic town (green)
- 4. Later Roman addition (red)



In general

- 1st phase: late 1st c. BCE/early 1st c. CE layout, some public buildings (Early Roman revival)
- 2nd phase: late 1st c. CE/early 2nd c. CE paving, colonnades, more public buildings (Great Revolt-Hadrian)
- 3rd phase: late 2nd c. CE/early 3rd c. CE reconstructions, expansions, additional public buildings (Severans)

Origin of the colonnaded streets

- Greek/Roman from *stoa/porticus*
- Ptolemaic/Egyptian processional *dromos*
- Eastern?
- Local climate

"And as for that large open place (*plateia*) belonging to Antioch in Syria, **did not he [i.e. Herod] pave it with polished marble**, though it were **twenty furlongs** (*stadia*, ~3.6 km) long? and this when it was shunned by all men before, because it was full of dirt and filthiness, when **he besides adorned the same place with a cloister** (*stoa*) **of the same length**."

BJ 1.425

Origin of the colonnaded streets

• Greek/Roman - from stoa/porticus,

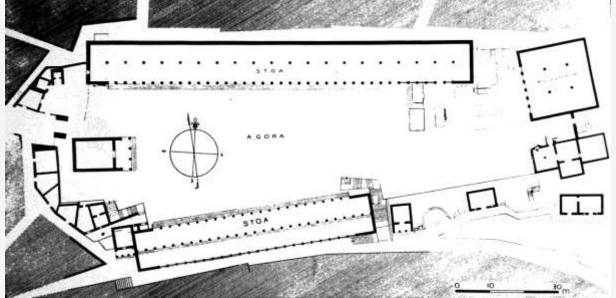
"The Greeks lay out their forums in the form of a **square surrounded by very spacious double colonnades**, adorn them with columns set rather closely together, and with entablatures of stone or marble, and construct walks above in the upper story...

Therefore let the intercolumniations round the show place be pretty wide; round about in the colonnades put the bankers' offices; and have balconies on the upper floor properly arranged so as to be convenient, and to bring in some public revenue."

Vitruvius 5.1.1-2



Assos



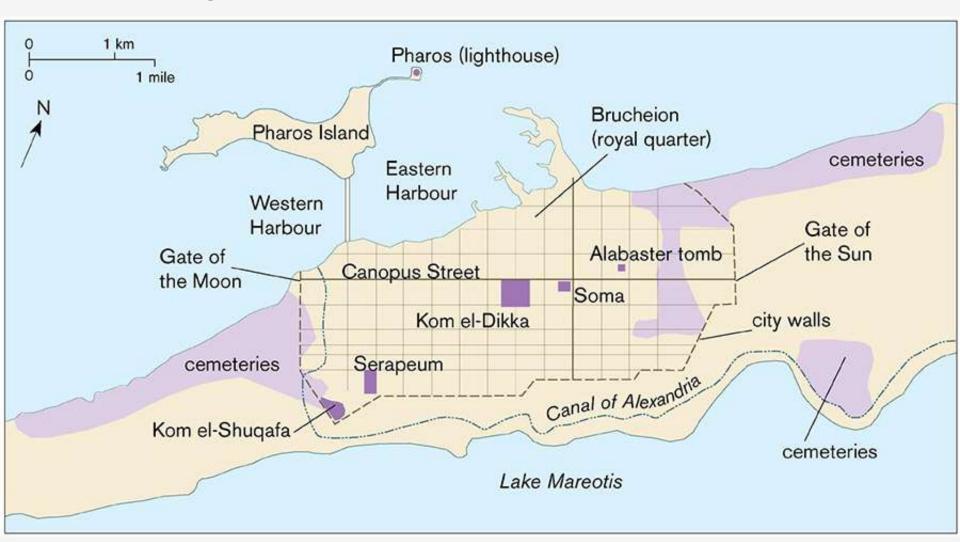
Origin of the colonnaded streets

- Ptolemaic/Egyptian processional *dromos*
- Alexandrian Canopus street?

"The shape of the site of the city is that of a chlamys or military cloak...The whole city is intersected by roads for the passage of horsemen and chariots. Two of these are very broad, exceeding a plethrum (i.e. ~30 m) in breadth, and cut one another at right angles."

Strabo 17.1.8

(no mention of colonnades)



Origin of the colonnaded streets

- Local climate
- Built also in North Africa and Asia Minor

Apamea – northern Syria



Origin of the colonnaded streets

- Local climate
- Built also in North Africa and Asia Minor

Palmyra - Syrian Desert

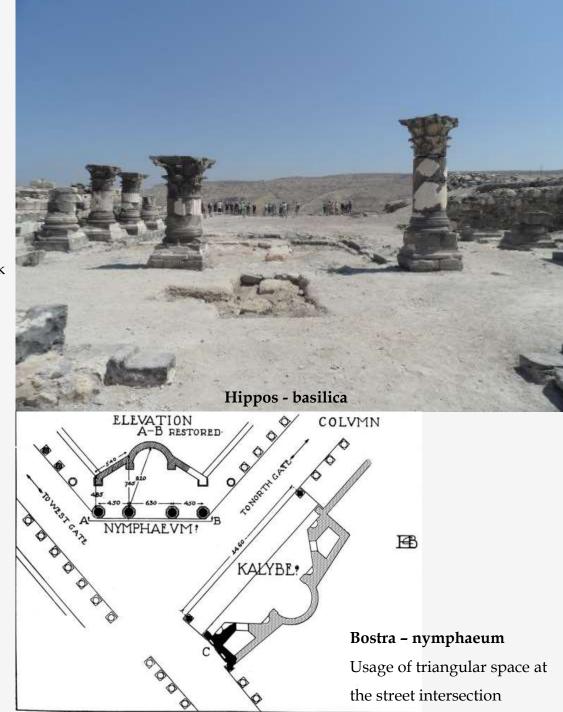


Basilica

- Appears in the Early Roman period, slowly disseminates
- Purely Roman ("Vitruvian") form
- No bouleuteria, stoai, prytaneia or other Greek forms
- No Roman curia

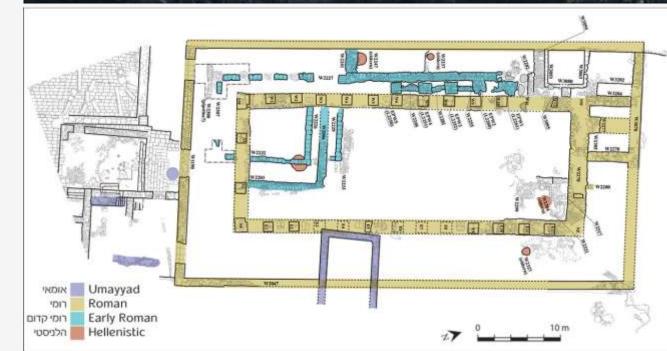
Nymphaeum

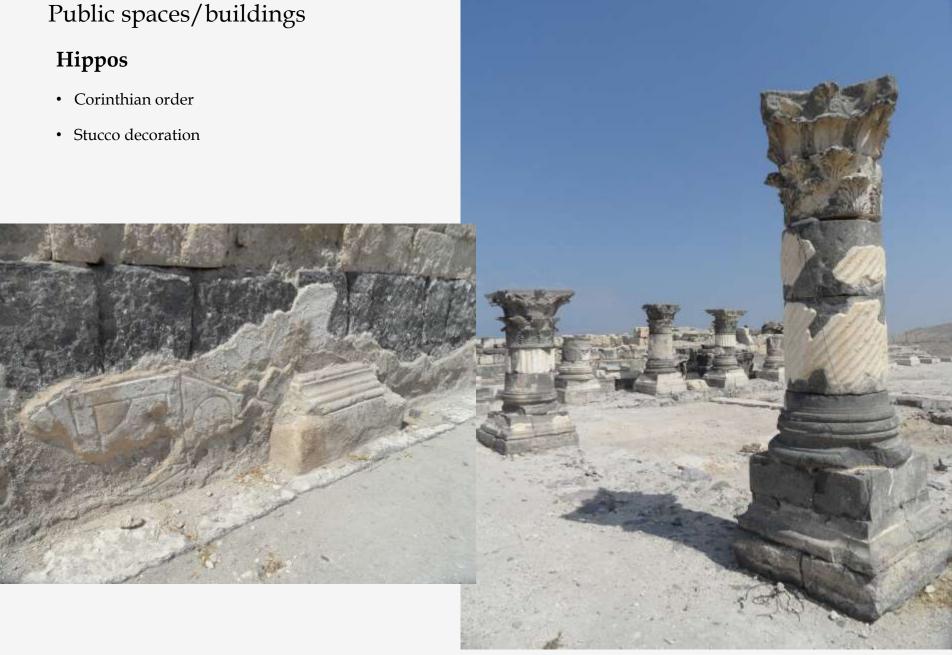
- Since 2nd c. CE
- "Theater" decoration
- Ornamental, decorative function, water only secondary function?



- On older (public?) structure
- End of the 1st c. CE
- Reconstructions/repairs at the end of the 2nd/beginning of the 3rd c. CE (Severan)
- 33x56 m (comp. agora 50x38.5 m)





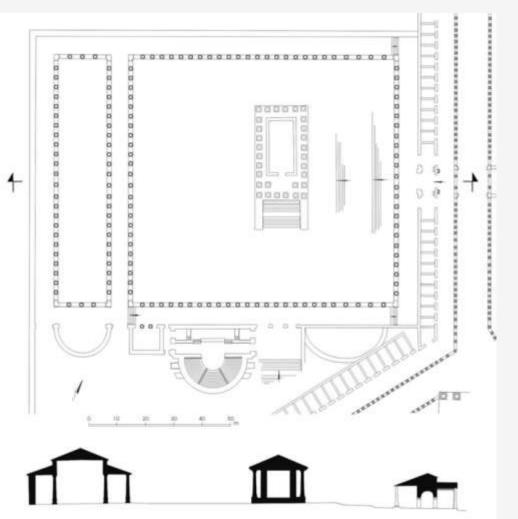


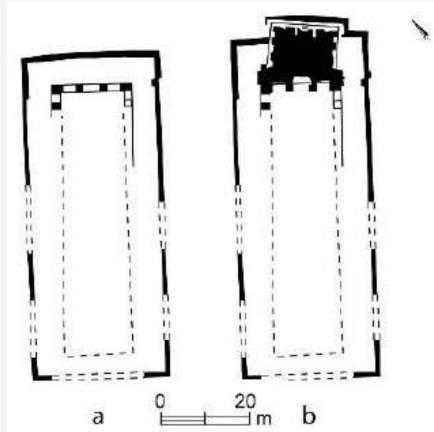
- Corinthian order
- Stucco decoration



Other basilicae

- Scythopolis Agora earliest (early 1st c. CE)
- Others mostly late 1st/early 2nd c. CE, or Severan





Scythopolis - Agora

Ionic, an "Altar" built later into the northern wall (b)

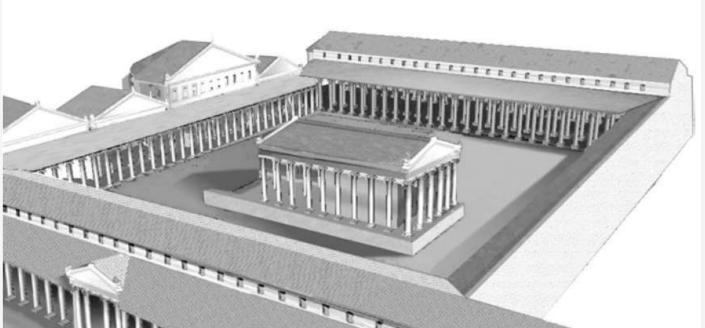
Scythopolis - Caesareum

Corinthian, early 2nd c. CE

Other basilicae

- Scythopolis Caesareum with basilica
- Corinthian
- 35.5x112 m
- Exedra 17.35 m

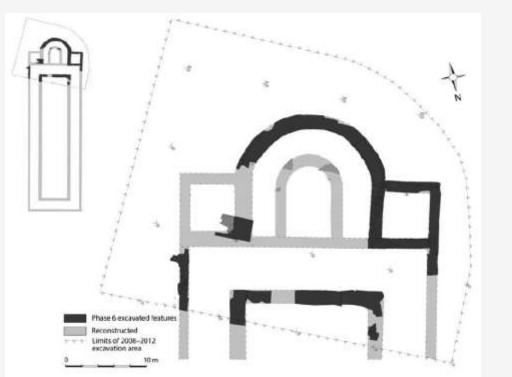


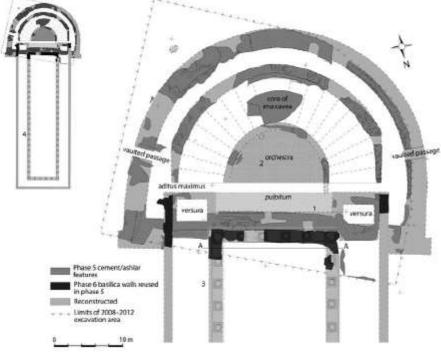


Other basilicae

- Ashkelon/Ascalon
- Combination of basilica and odeion/bouleuterion (Early Roman/Severan)







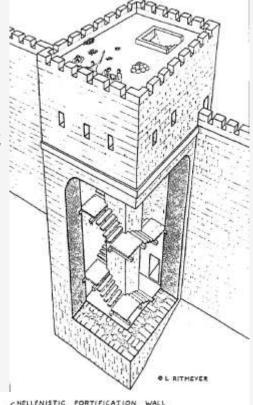
- Limited evidence for the Ptolemaic/Seleucid foundations in the Hellenistic period (several exceptions –
 Gadara, acropolis of Philadelphia)
- Natural position (tell sites, hills) + limited use of earlier (BA/IA fortifications) Lesser need for fotifications in the Hellenistic period (see Philoteria)?
- But other major towns are (re)fortified starting in the Hellenistic period (Dor, Jerusalem, Samaria...)
- Hellenistic fortification methods starts to penetrate the region during the 2nd c. BCE (Tel Dor, Gadara)
- Even in the Roman period, not all cities are fortified (but this phase is generally poorly known)
- Fortifications are built/expanded after the Great Revolt and then mainly from the later part of the 3rd c. CE onwards

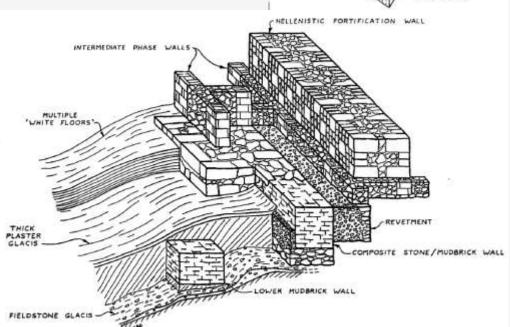
"Secondly, it is necessary to built the towers at appropriate places... others, however, should be built hexagonal, or pentagonal or four-cornered... so that they may protect one another by discharging missiles flankwise at mobile-towers...and so that they receive no damage when struck by rams of stone-projectors (ballistae)..."

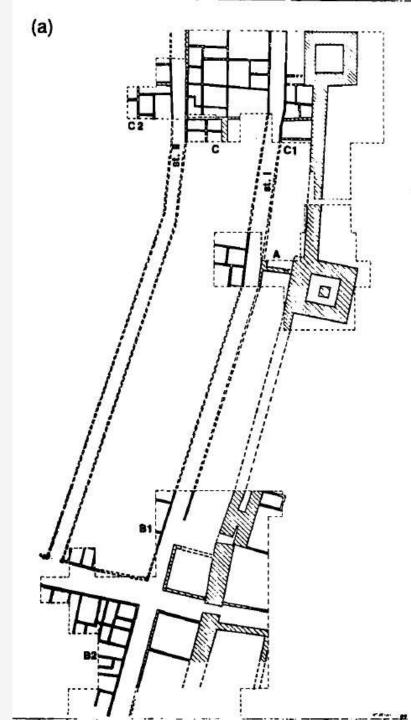
Philo of Byzantium, Poliorcetica 1.2-3

Tel Dor

- New city wall in the 2^{nd} c. BCE
- Large square towers
- Gate flanked by buttresses
- Headers and stretchers
- Introduction of artillery



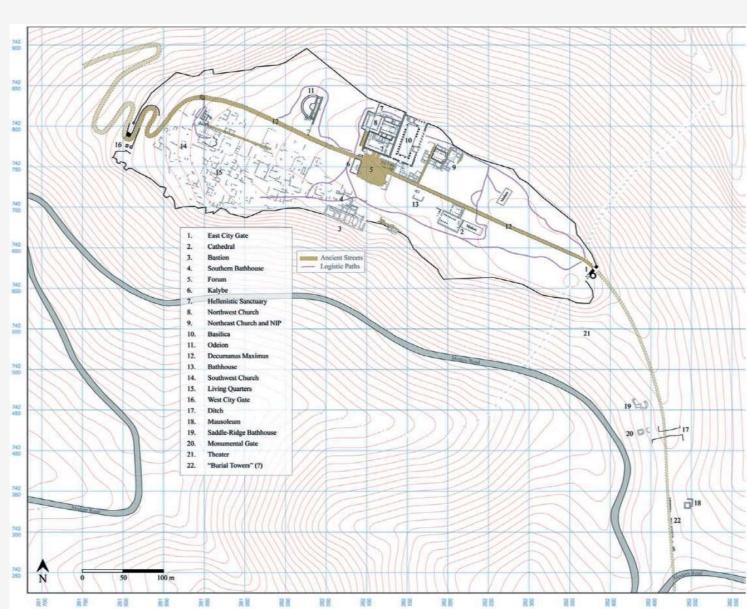




- No substantial Hellenistic fortifications
- Early Roman fortifications in 2 phases? (Bastion, Eastern Gate)
 Extension of the city in the early 2nd c. CE new fortifications



- Byzantine wall ca. 1,550 m
- Two gates
- Hellenistic/Early Roman wall following the same alignment?



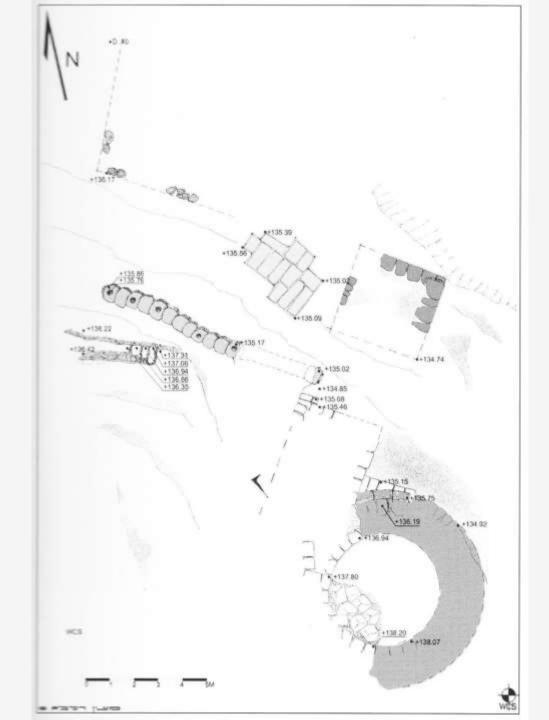
- Byzantine wall ca. 1,550 m
- Two gates
- Hellenistic/Early Roman wall following the same alignment?



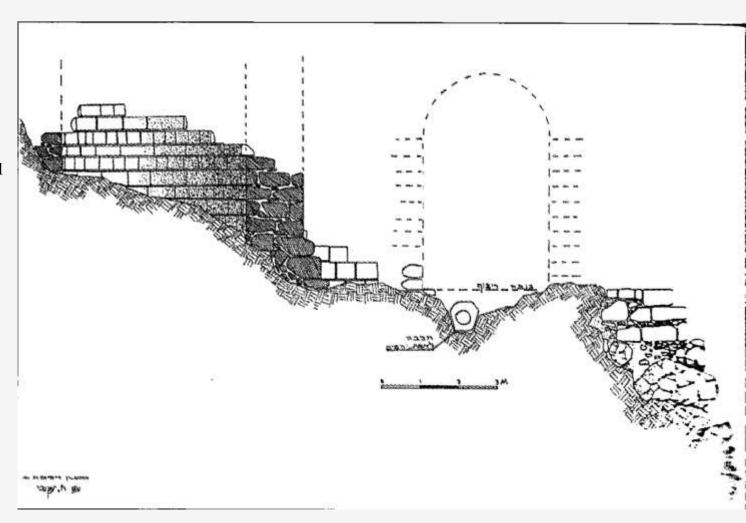
- Eastern gate
- 1st c. CE
- One passageway (3.15 m wide)
- Flanked by a round and a square tower



- Eastern gate
- 1st c. CE
- One passageway (3.15 m wide)
- Flanked by a round and a square tower



- Eastern gate
- 1st c. CE
- One passageway (3.15 m wide)
- Flanked by a round and a square tower



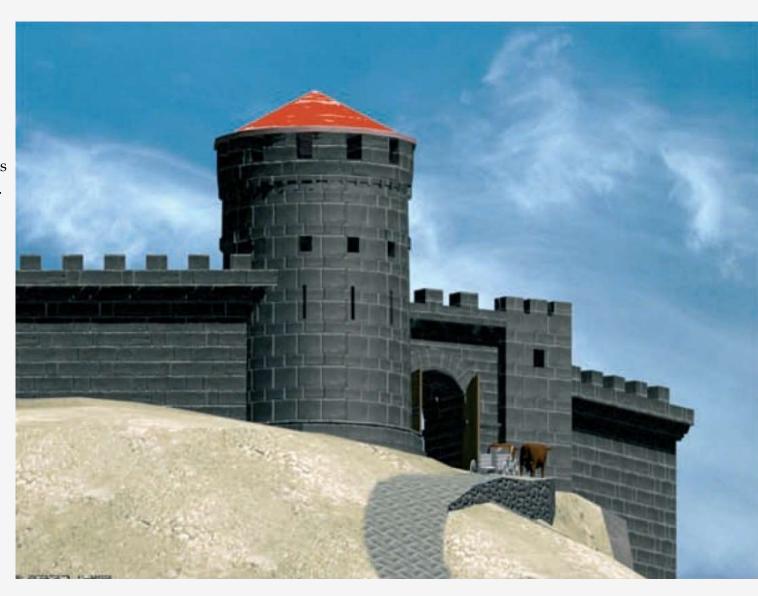
- Eastern gate
- Round tower $\emptyset = 8.2 \text{ m}$
- Fine masonry, headers and stretchers
- Smooth bosses, marginal drafting



- Eastern gate
- Round tower $\emptyset = 8.2 \text{ m}$
- Decorative
 moulding above the
 base –
 representative,
 ornamental
 function



- Eastern gate
- Round tower $\emptyset = 8.2 \text{ m}$
- Probably supports artillery on upper floors

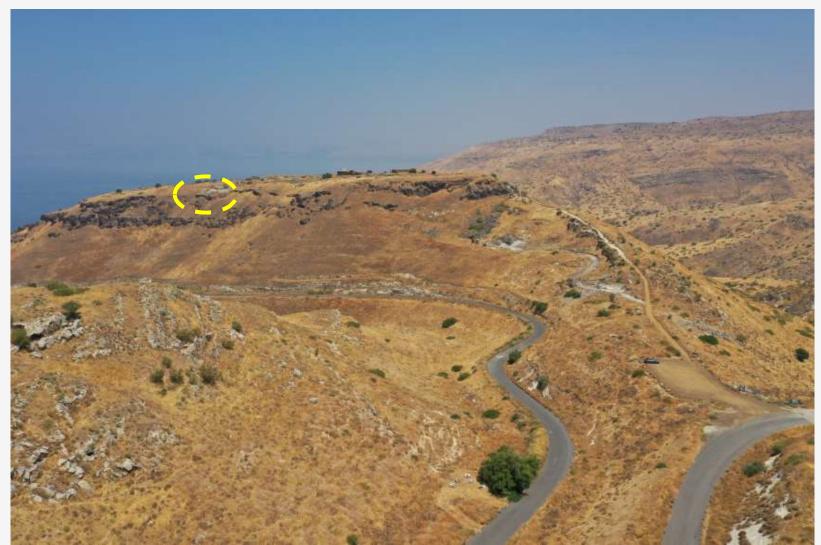


Hippos

• Bastion in the Southern wall lat

late 1st c. CE

• 47x13 m

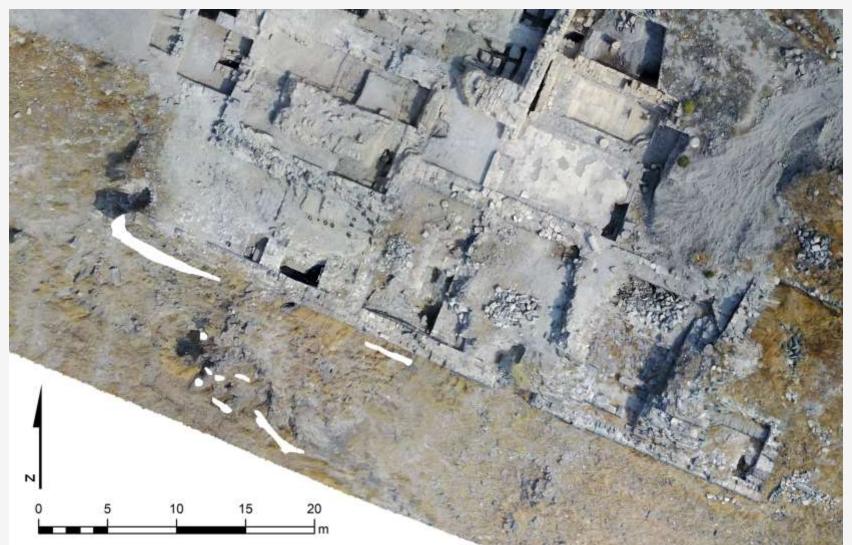


Hippos

• Bastion in the Southern wall

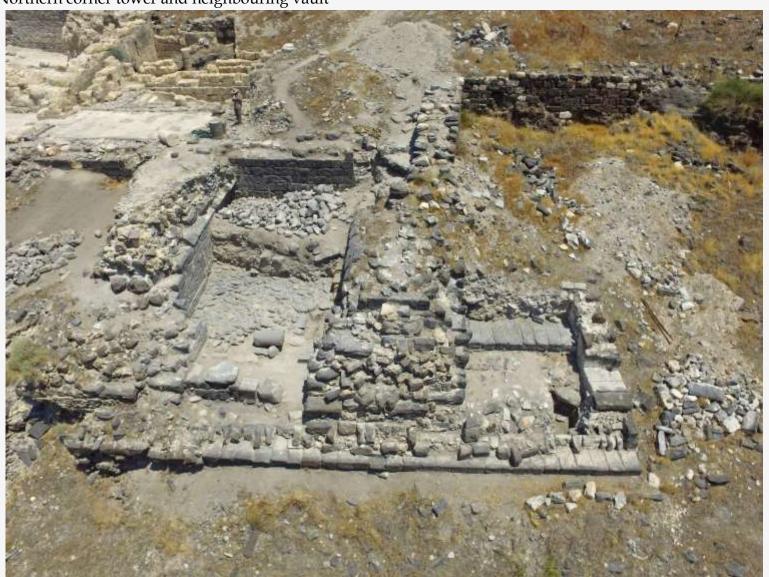
late 1^{st} c. CE, overlaid by bathhouse in the late 2^{nd} c.

• 47x13 m

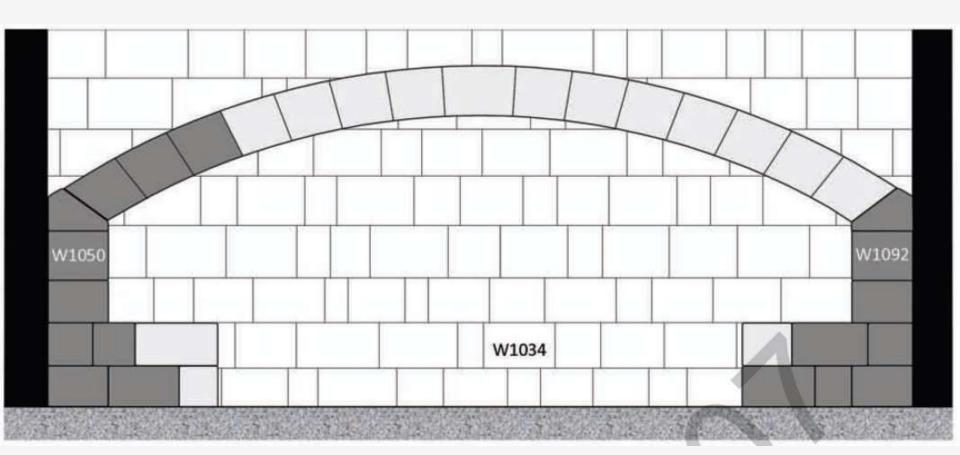


Hippos

• Northern corner tower and neighbouring vault



- Vault
- Some use of Roman building methods (vaulting, cement)



Hippos

• Bastion - foundations



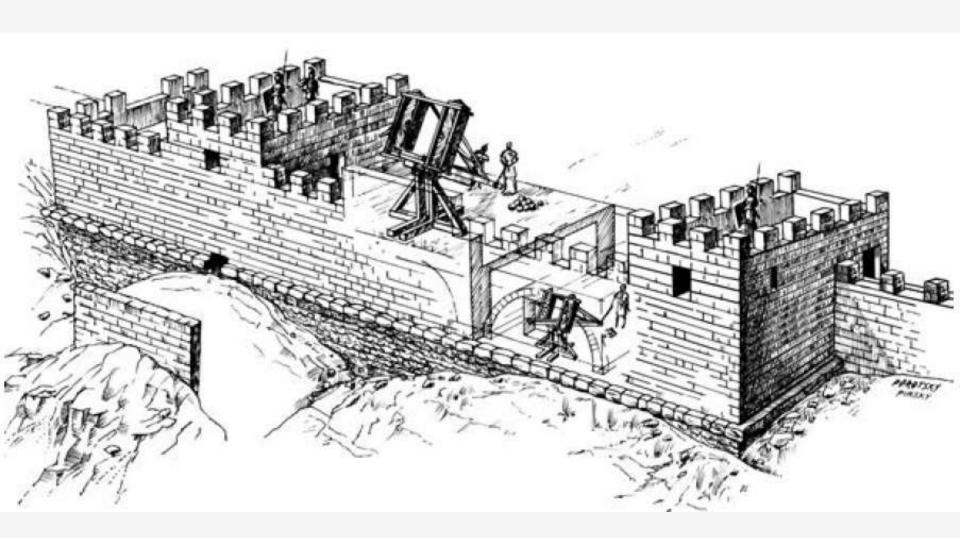
Hippos

• Bastion



Hippos

• Bastion – proposed reconstruction



Hippos

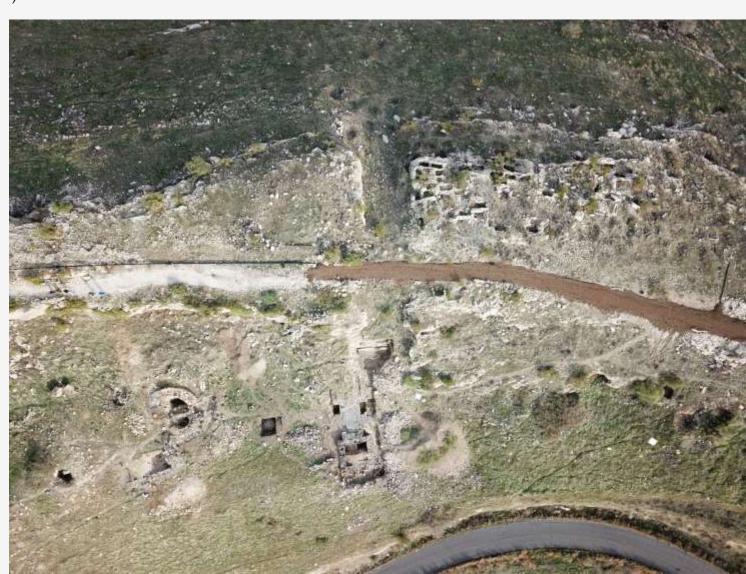
• Early 2nd c. CE city extension (Hadrian?)



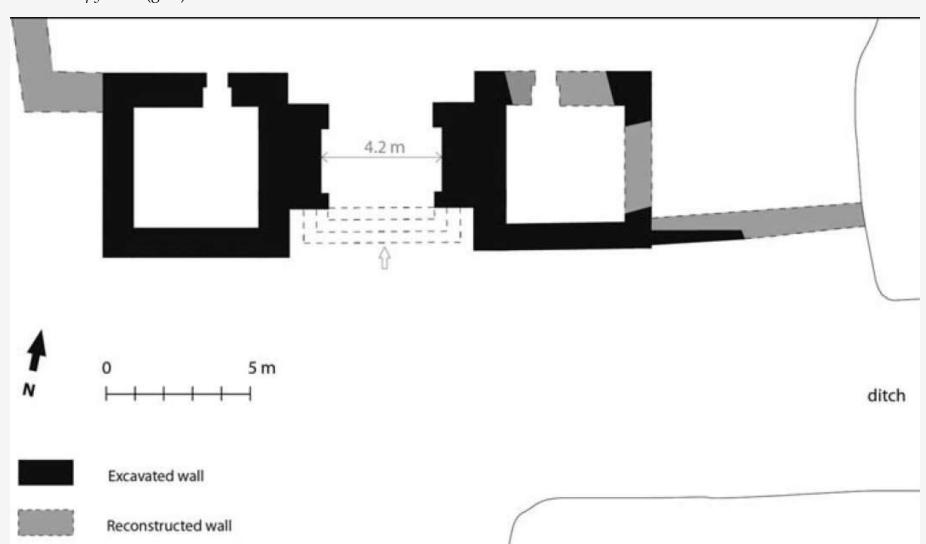
- Early 2nd c. CE city extension (Hadrian?)
- Ditch, propylaeum (gate) and wall



- Ditch (6.5-8 m x 40m)
- Propylaeum (gate)



- Ditch (6.5-8 m x 40m)
- Propylaeum (gate)



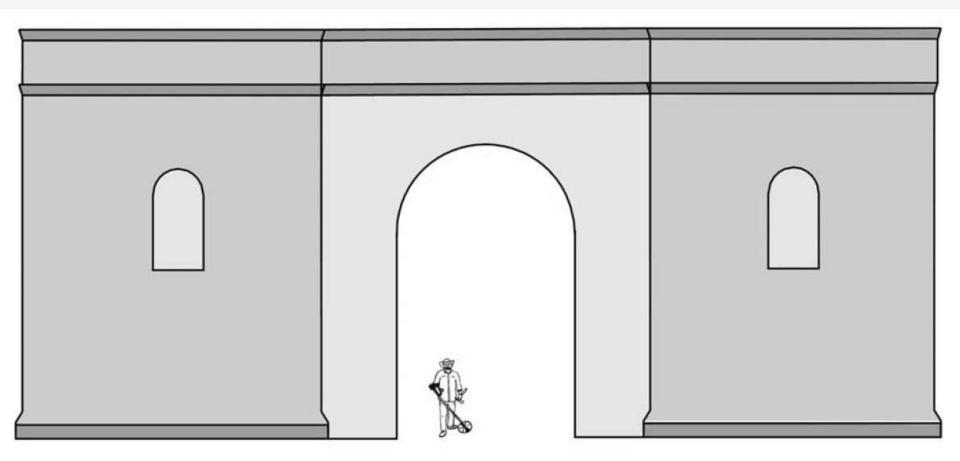
- Ditch (6.5-8 m x 40m)
- Propylaeum (gate)



- Propylaeum (gate)
- Decorated door frame and moulding above the base



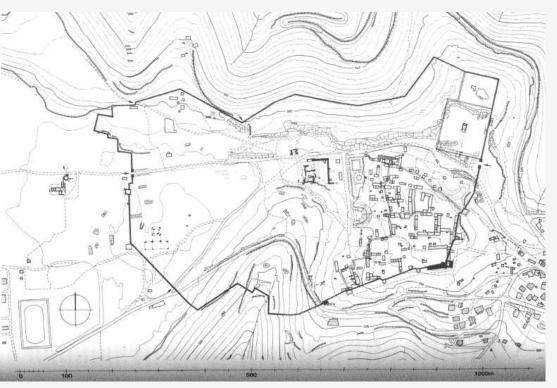
- Propylaeum (gate)
- Towers 6.45x6.45 m, passage 3.65 m



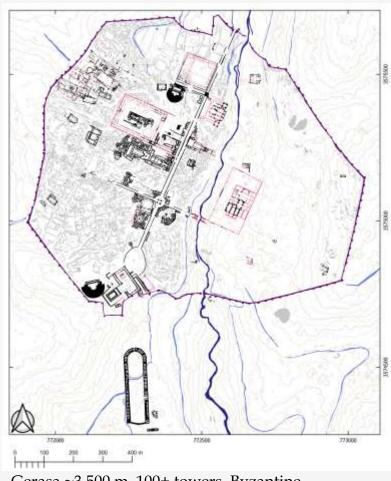


Other cities

- Gadara (second half of the 1st c. CE), Gerasa (early 2nd c. CE)
- Unfortified Capitolias, unknown Pella, Scythopolis, Abila, Dion (Scythopolis have Byzantine fortifications, perhaps based on the Roman walls)
- Fortified acropolis Philadelphia, Pella?
- Herodian foundations often fortified (not a rule) Samaria, Caesarea, Tiberias...
- Roman foundations rarely fortified (Philippopolis)
- "Symbolic" walls, "symbolic" gates
- Fortified x decorative gates



Gadara ~2,500 m, few towers, bastion, two new gates



Gerasa ~3,500 m, 100+ towers, Byzantine

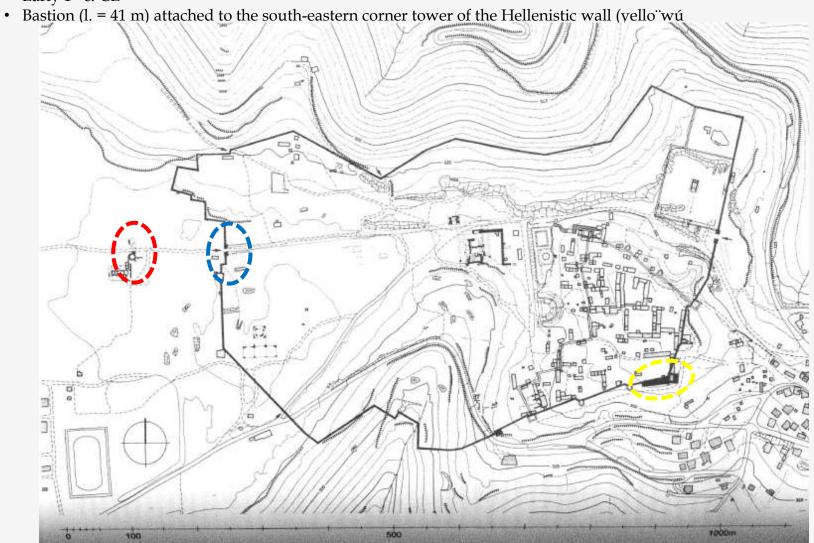
Gerasa

- Early Roman wall only 1.75 m wide (more symbolic than functional limited space for man and artillery on the walls)
- Byzantine wall 3.3-3.5 m (wider more functional)



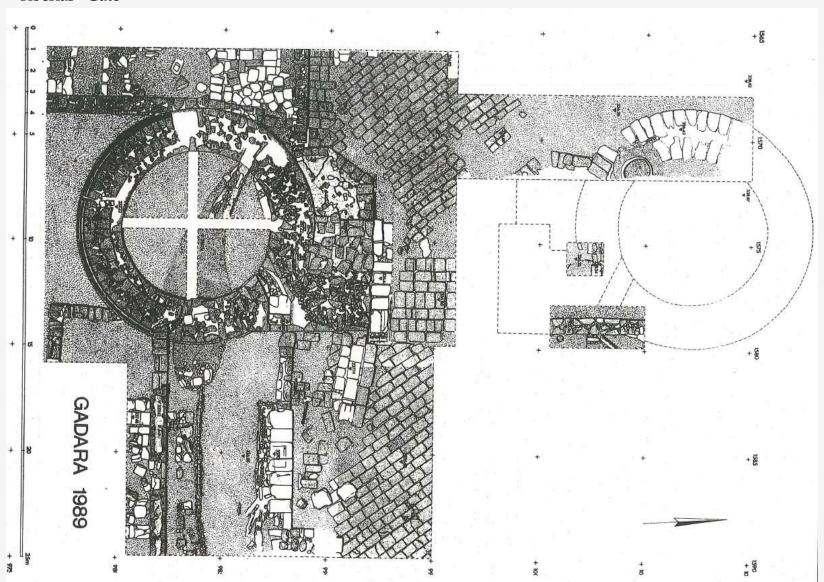
Gadara

- "Tiberias" Gate (red)
- Monumental entrance (~35 m wide) *in front of the city* (~100 m west of the city wall and its associated gate blue)
- Early 1st c. CE



Gadara

• "Tiberias" Gate



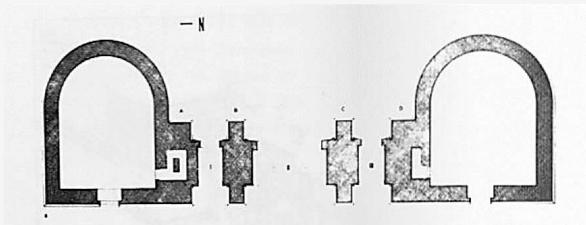
Gadara

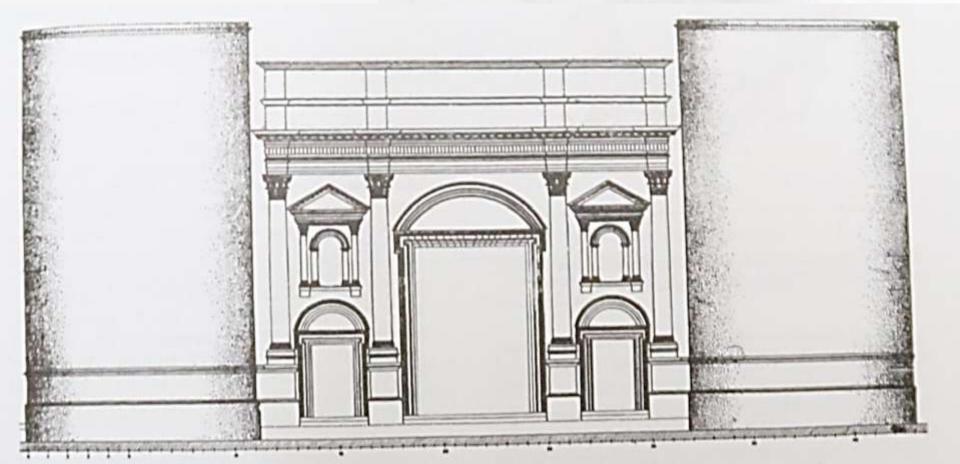
• "Tiberias" Gate – round towers with decorative mouldings (see Hippos)



Gadara

- Monumental arch/gateCa. 500 m to the west of the Tiberias Gate





Other places

- Single of triple-arched decorative gates found throughout the region (Jerusalem, Petra, Damascus...)
- Modelled on Roman triumphal arches



Gerasa, Northern Gate



Damascus, Bab Sharqi