

UNIVERSITY of NOTRE DAME
School of Architecture

BUILDING TECHNOLOGY I / ARCH 20411 & ARCH 60411

October 4, 2012

QUIZ # 4

1. List the three most common types of masonry building materials:
 - a.
 - b.
 - c.

2. Of the following masonry units, which is the most fire-resistant:
 - a. Slate
 - b. Hollow Concrete Masonry
 - c. Brick
 - d. Limestone

3. When using standard modular brick, three _____ plus three _____ equals 8".
 - a. bricks; head joints
 - b. wythes; collar joints
 - c. bricks; cross joints
 - d. courses; bed joints

4. TRUE or FALSE: The corbel is a structural device that has unlimited spanning capability.

5. Which one of the following bond patterns would NOT be used in traditional, double-wythe brick wall construction?
 - a. Common
 - b. Flemish
 - c. Running
 - d. English

6. Please explain why (refer to the question above):

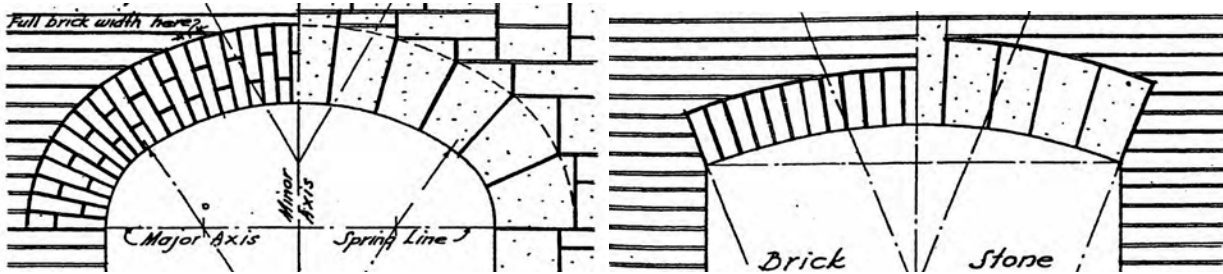
7. Of the many types of tooled joint profiles, the Concave, Vee, and Raked joint profiles are most commonly used because they are (choose one):
 - a. the easiest to create
 - b. the most weatherproof
 - c. the fastest to cure
 - d. almost identical profiles

8. What is the ACTUAL size of a standard concrete masonry unit? _____ X _____ X _____

9. Which type of masonry bearing wall has an inner structural wythe and an outer masonry veneer which is separated by a continuous airspace and spanned only by non-corrosive metal ties?
 - a. Load-bearing unreinforced
 - b. Composite masonry
 - c. Cavity wall
 - d. Rowlock wall

NAME:

10. Name That Arch....

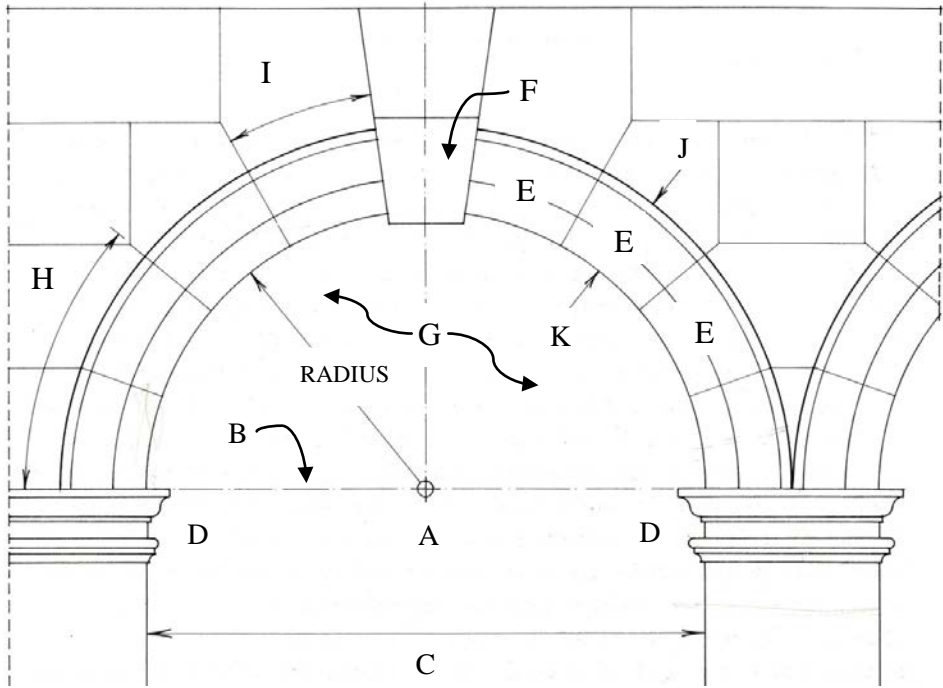


1.

2.

7. Name the parts of the arch below (1 point each):

- a.
- b.
- c.
- d.
- e.
- f.
- f.
- g.



KEYSTONE, VOUSSIOR, CENTER OF ARCH, SPRINGLINE OF ARCH, IMPOST, TYMPANUM, CROWN, EXTRADOS, HAUNCH, INTRADOS, RADIUS, ABUTMENT, SPAN, SPANDREL

BONUS PARTS (+1 point each):

- h.
- i.

DOUBLE BONUS (+ 2 points each):

- j.
- k.