

ARCH

Construction known as an 'arch ring', made of truncated wedge-shaped voussoirs that by mutual pressure stay in place, set out in a curved form to span an opening and carry a superimposed load.

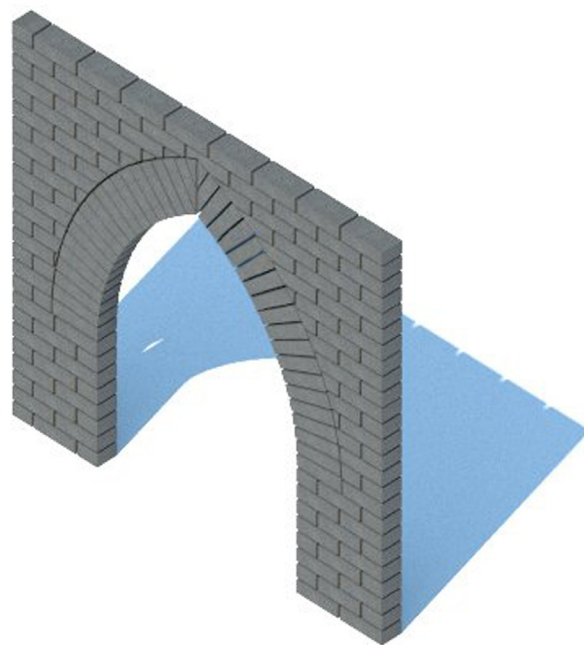
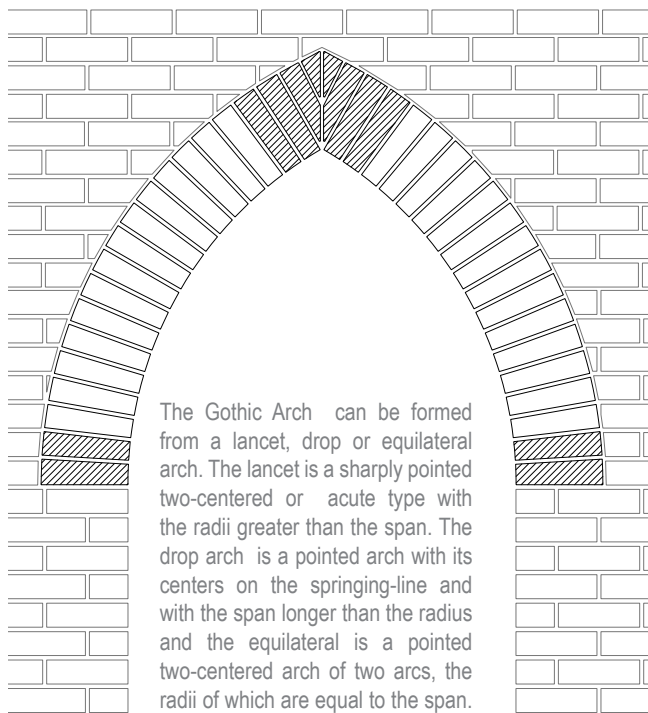


Figure 3.1 Gothic Arch scale 1:20 elevation

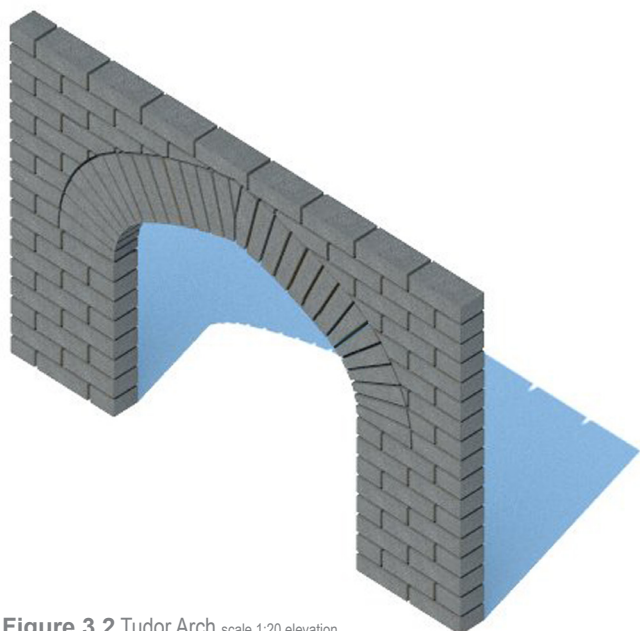
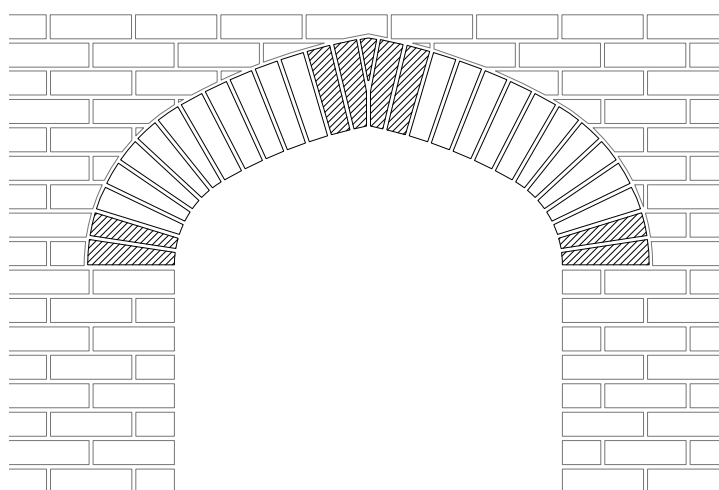


Figure 3.2 Tudor Arch scale 1:20 elevation



Perpendicular Arch, similar to a depressed arch, but with shanks starting at quarter circles (with centres on the springing line) continuing as straight lines to the apex. It is very depressed, and often expressed as a single lintel.

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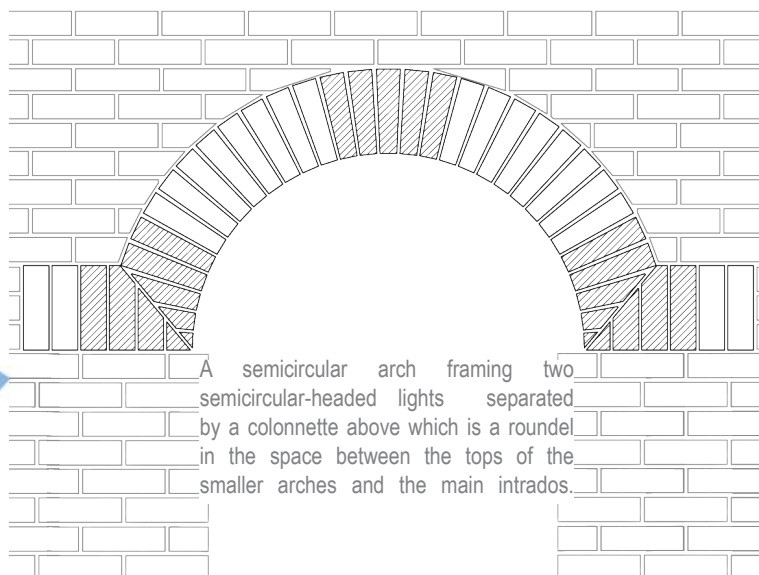
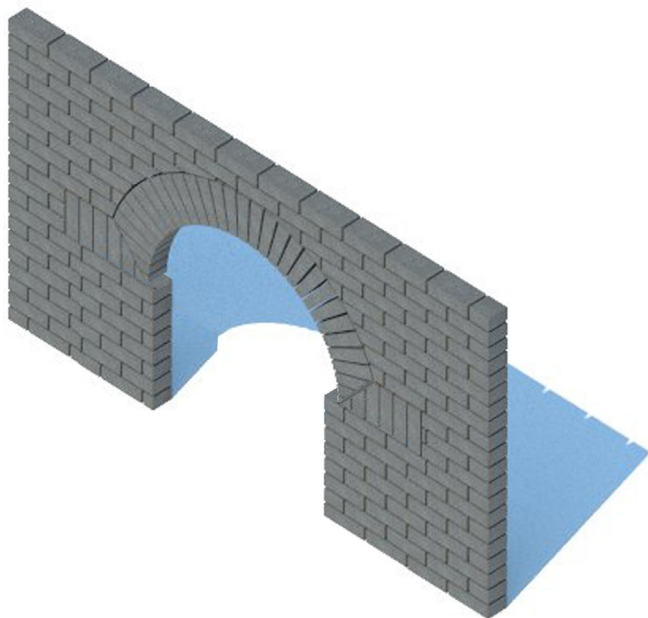
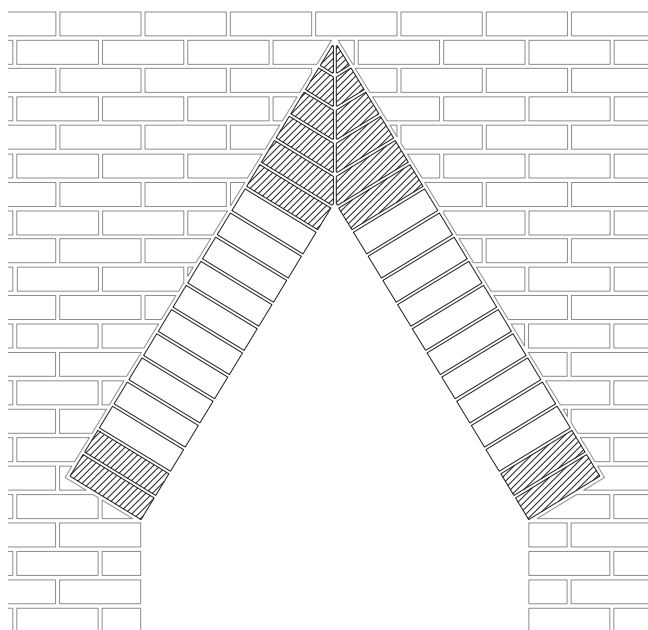


Figure 3.3 Venetian Arch scale 1:20 elevation



A triangular pseudo-arch of two courses of stretchers at an acute angle, lean together at a mitred apex, common in Anglo-Saxon architecture, also called pediment or mitre arch.

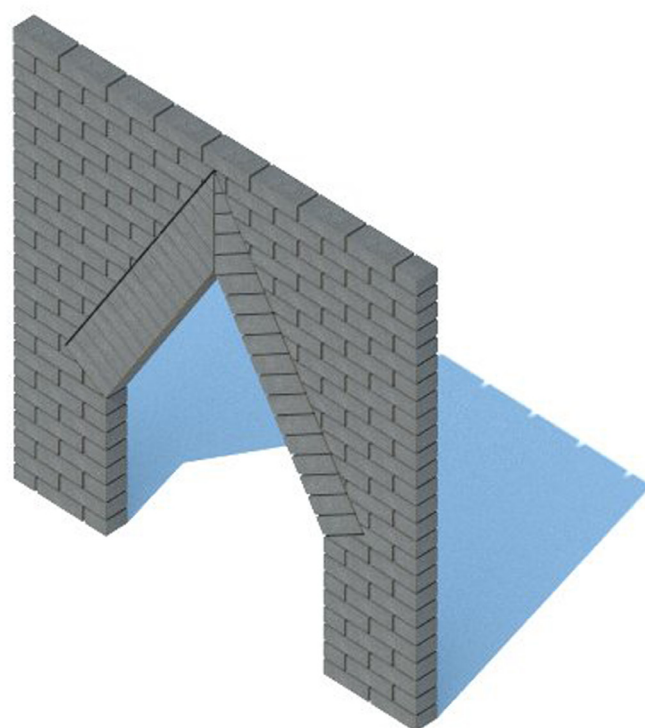
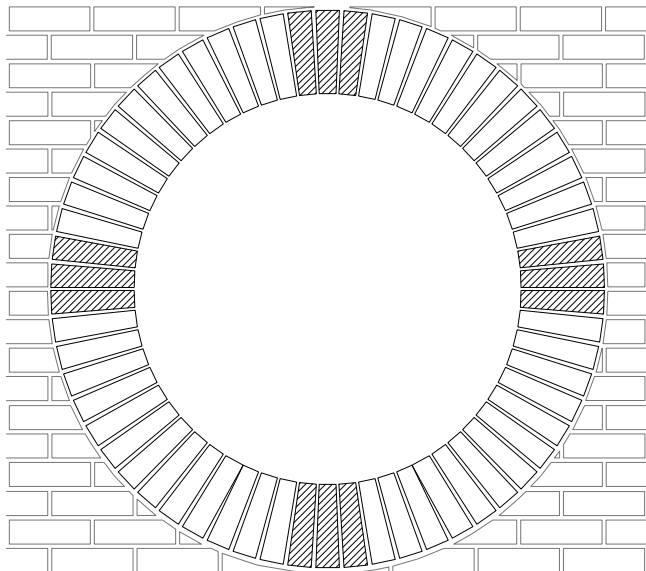


Figure 3.4 Triangular Arch scale 1:20 elevation

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The Bullseye Arch is commonly used for openings increasing the volume of light entering the internal space. The full circle of brick voussoirs remain in compression.

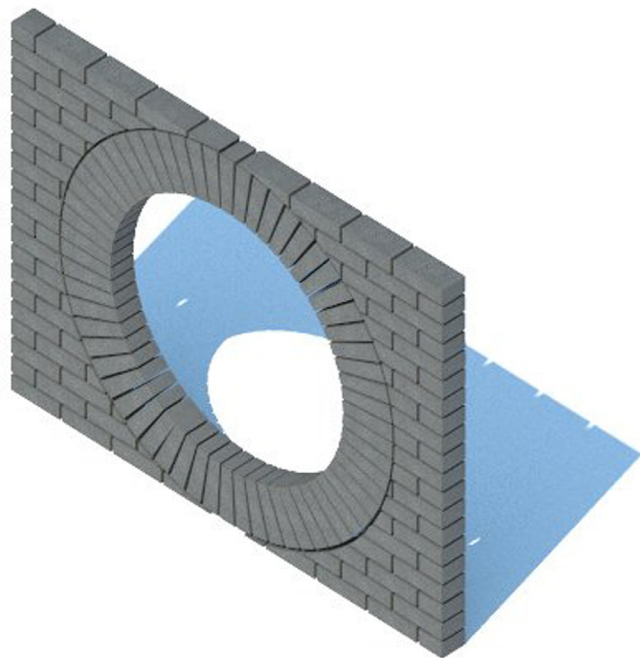


Figure 3.5 Bullseye Arch scale 1:20 elevation

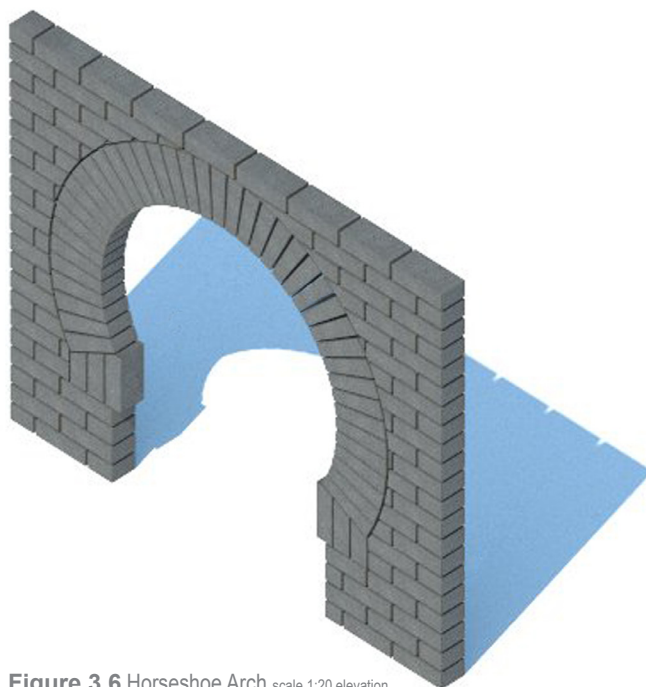
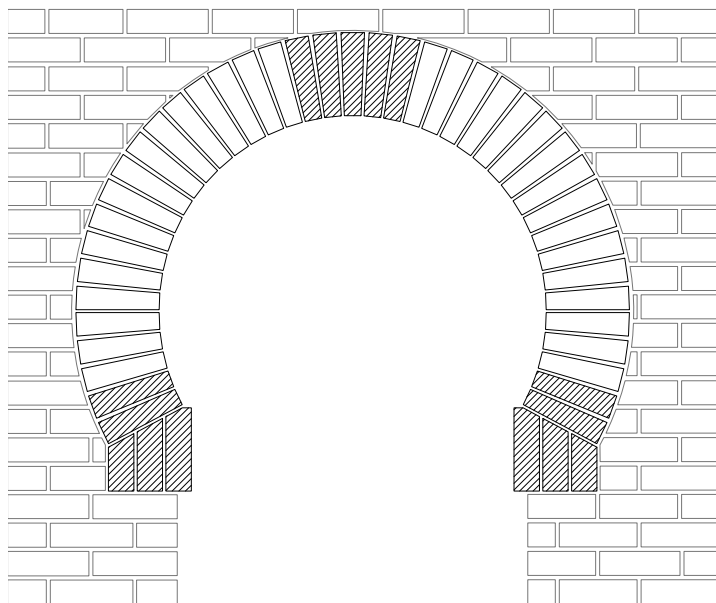


Figure 3.6 Horseshoe Arch scale 1:20 elevation



Usually associated with Islamic styles, formed from a semicircular arch on straight piers narrowing towards the base below the springing-line. Other types include a pointed horseshoe arch and a round horseshoe arch as shown above.

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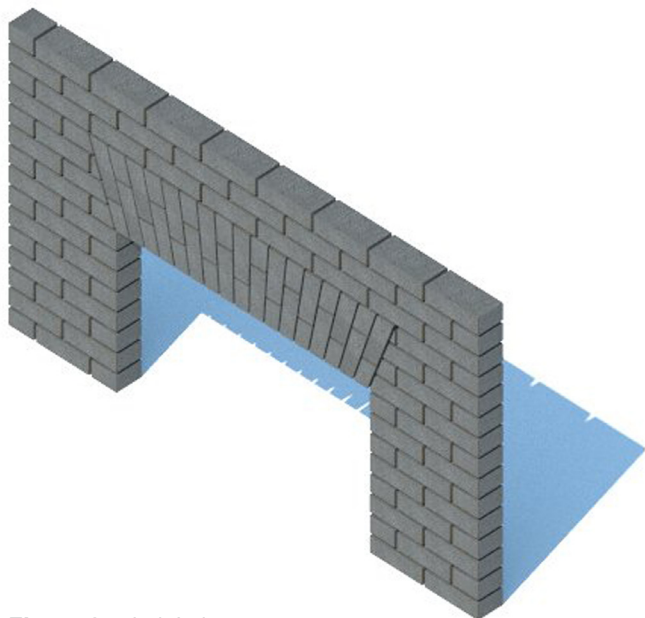
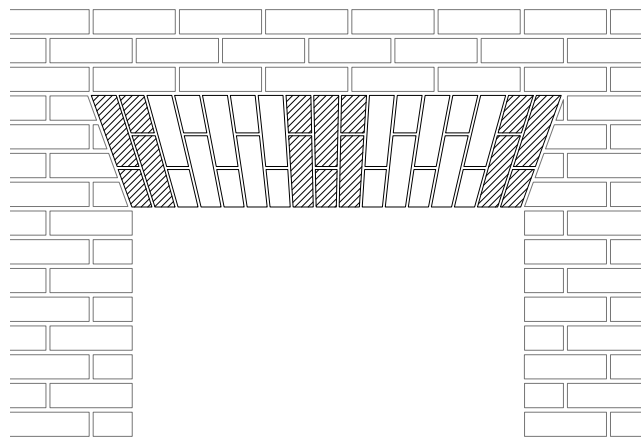
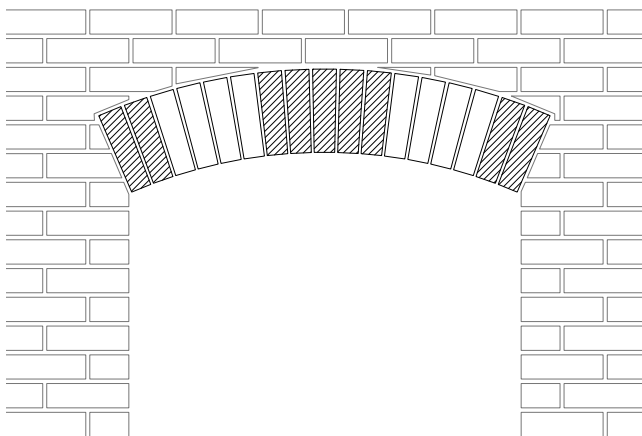


Figure 3.7 Jack Arch scale 1:20 elevation



The Jack Arch is a segmental Arch spanning between iron beams, thus forming a vault.



With its centre below the springing-line, a Segmental Arch can either be semicircular or pointed which would allow for two centres below the springing-line.

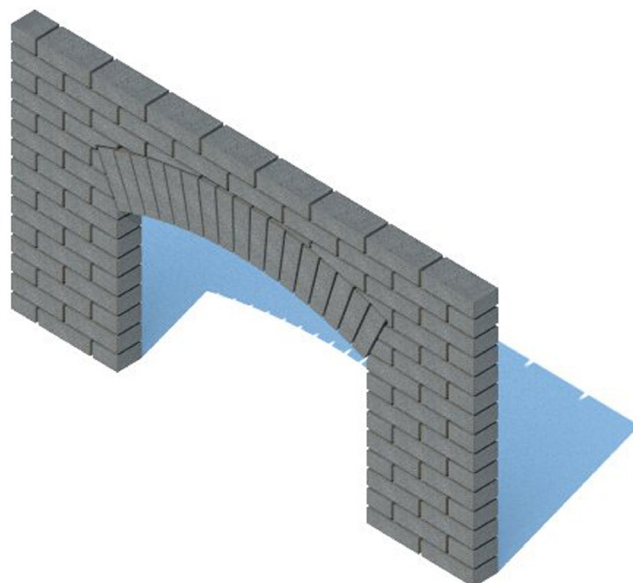
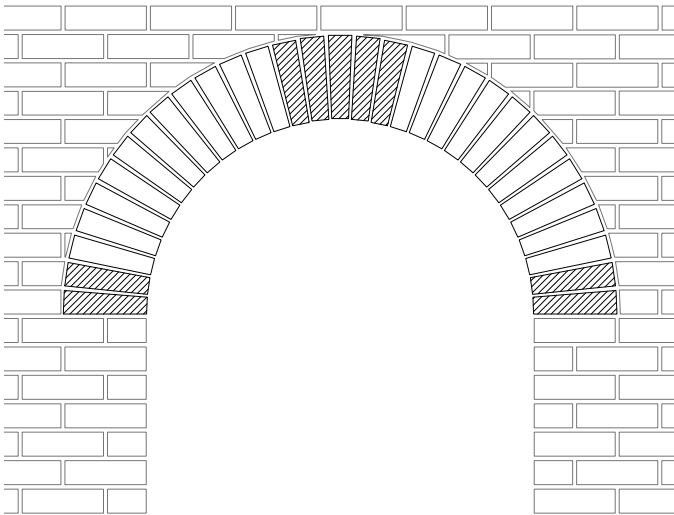


Figure 3.8 Segmental Arch scale 1:20 elevation

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A Semicircular Arch will always have its centre on the springing-line.

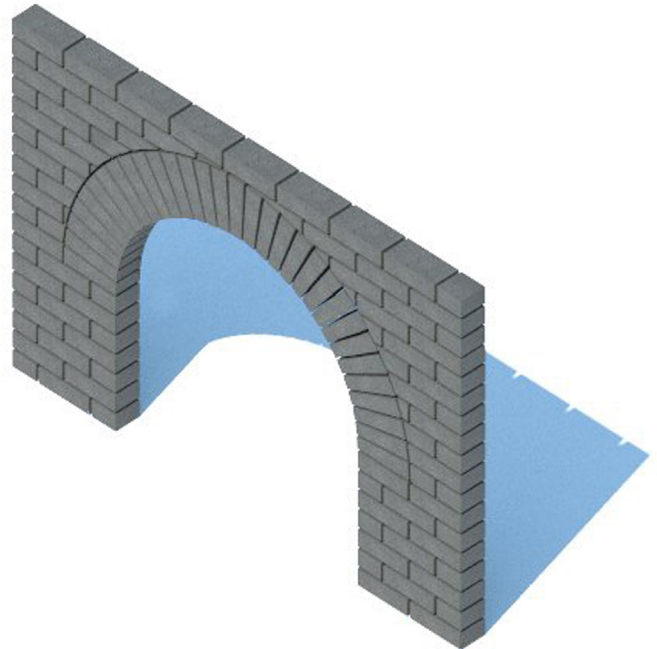


Figure 3.9 Semicircular Arch scale 1:20 elevation

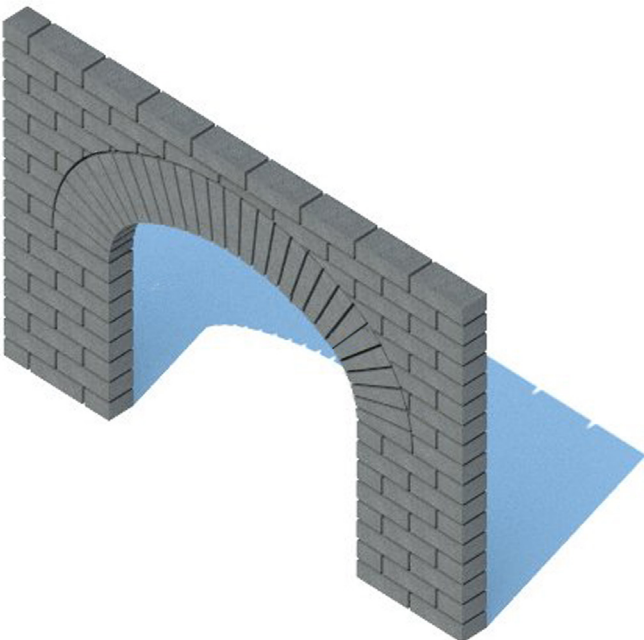
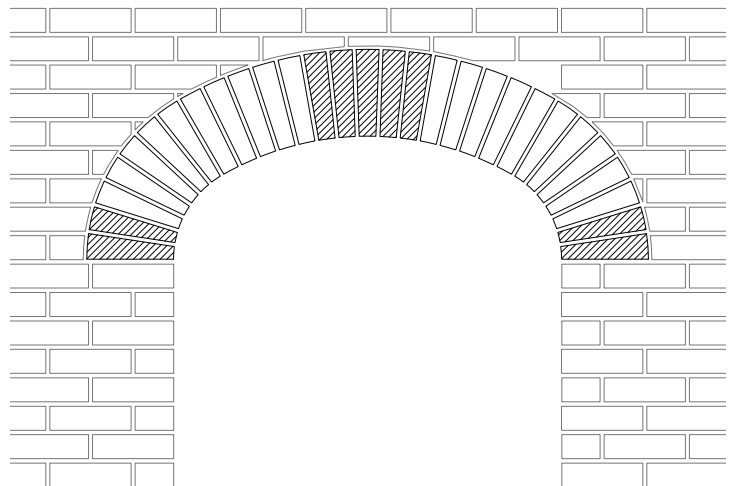


Figure 3.10 Multi-Centered Arch scale 1:20 elevation



Also known as a three-centered Arch with two arcs struck from the springing-line with a central arc struck from below it. A depressed three centres arch has the central arc struck from a point very much lower than the springing-line.