

The Newton drawings depict a full-size detail of the baluster. The geometry of the baluster appears to be developed by free hand methods. That is, portions of the railing cannot be described in terms of geometric elements. Presumably, a prototype railing was developed from a timber block on a wood lath, sawn in half and traced on the Newton drawings.

It is proposed to simulate the shape of the balusters with defined geometric elements and adjusted to meet current codified safety requirements that preclude the ability to pass a 6-inch sphere between the balusters. A graphic depiction of the baluster depicted on the Newton drawings and the proposed geometrically defined baluster is presented below.

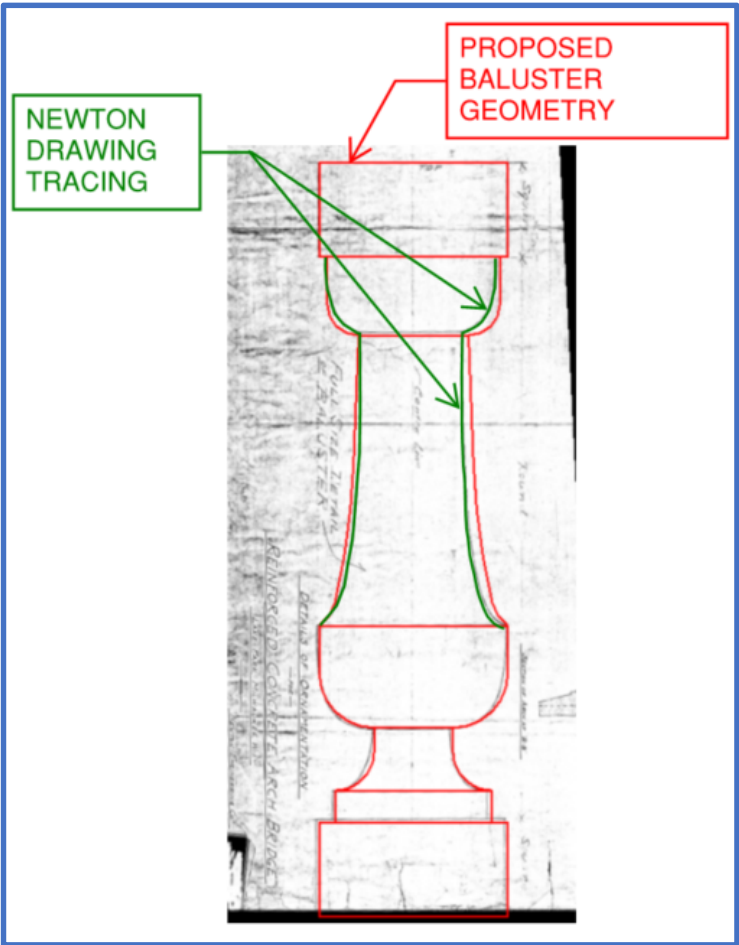


Figure 24: Baluster Shape Comparison