

Appendix C - Main Crossing Scheme Assessment Architectural Figures

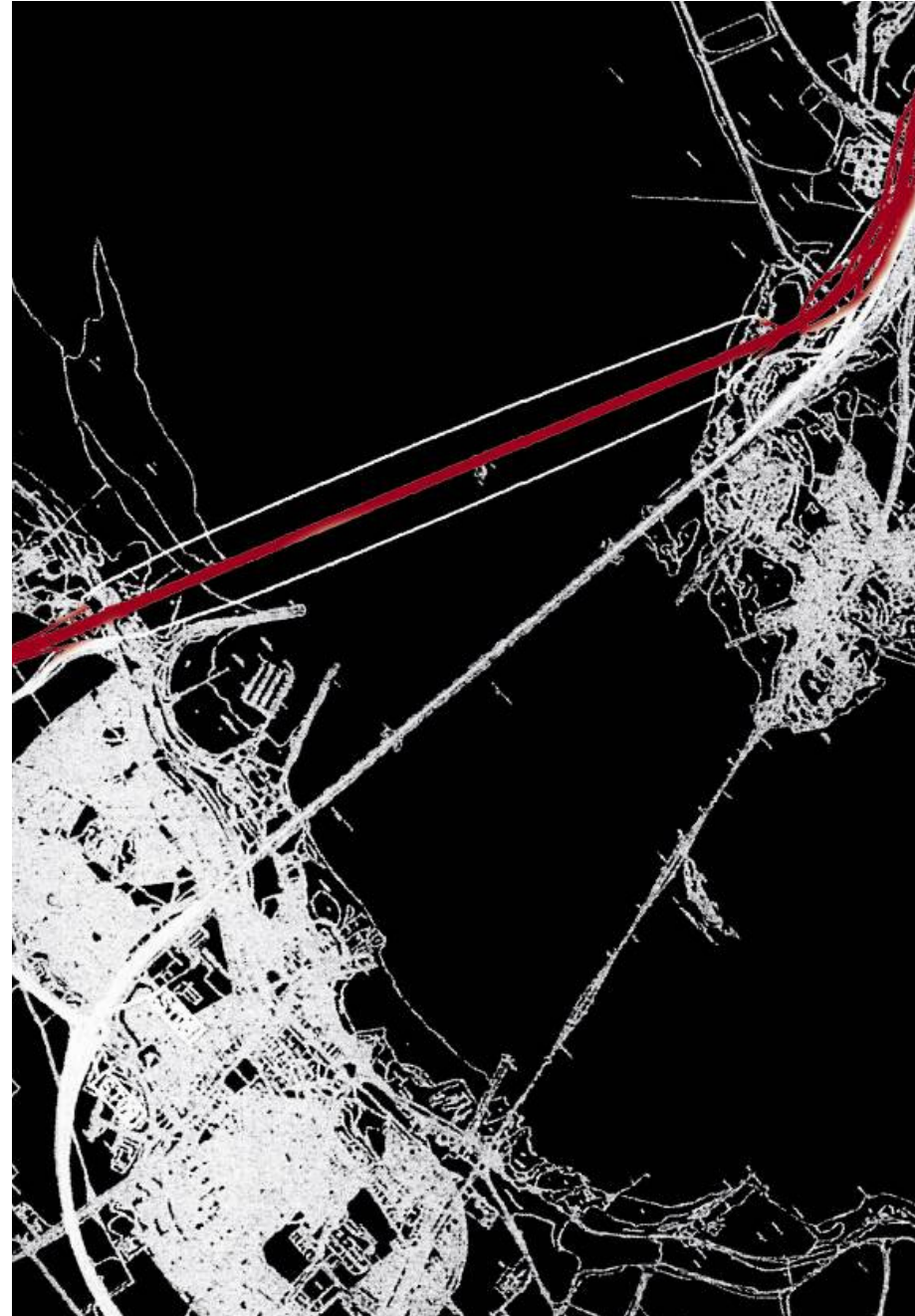


Figure C.1 Alignment of the Three Bridges (Forth Replacement Crossing alignment shown in red)

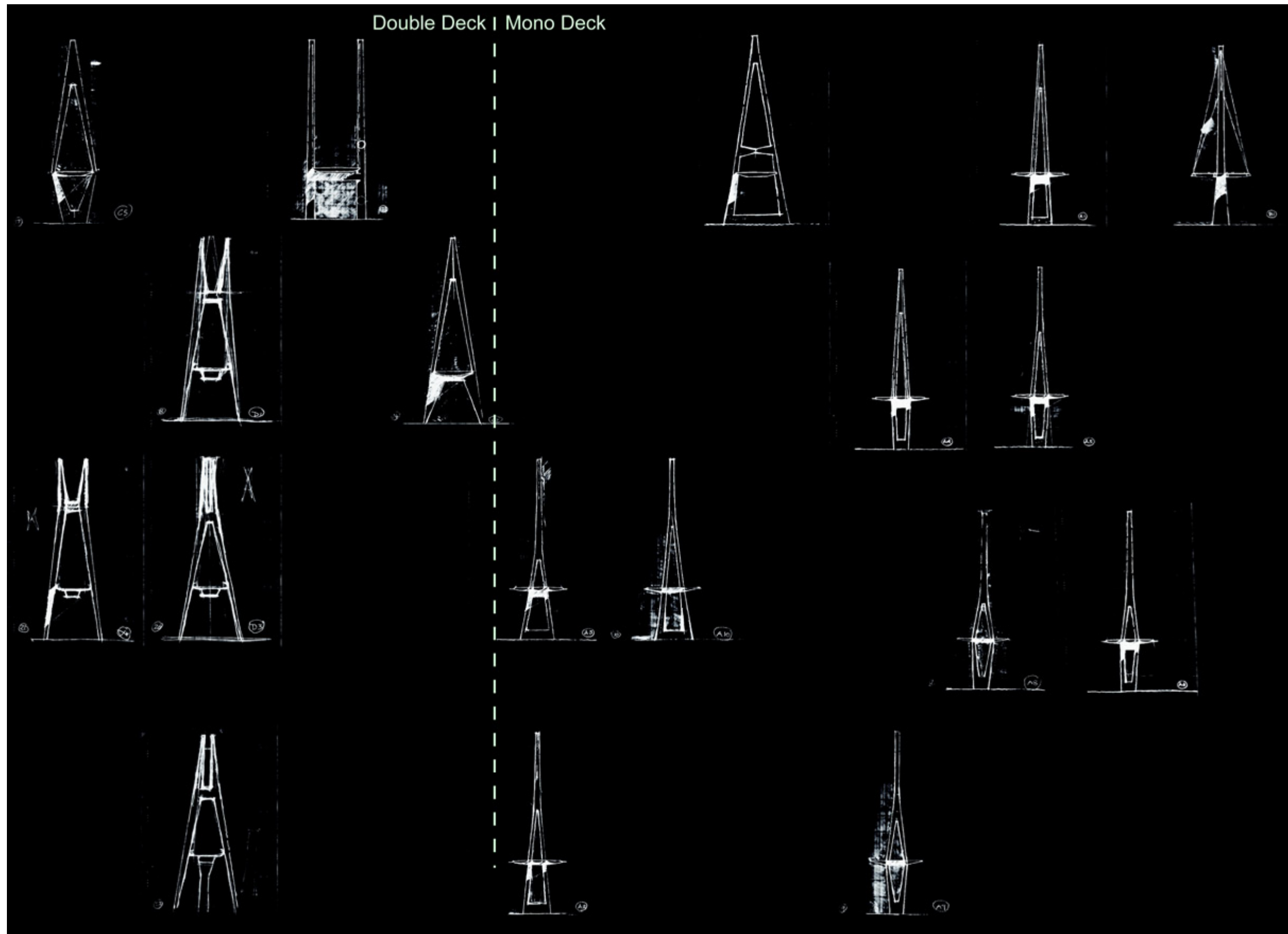


Figure C.2 Concept Evolution

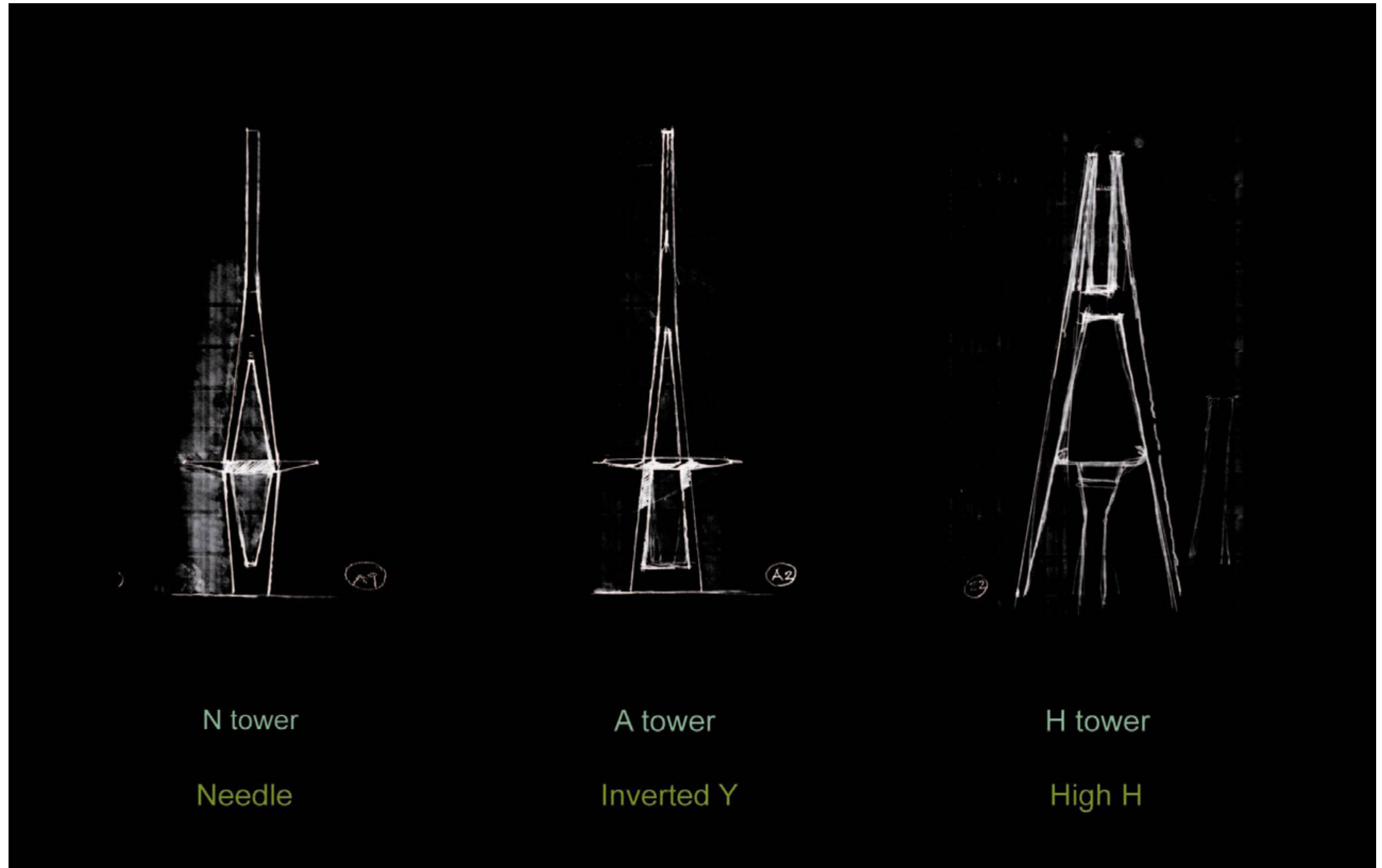


Figure C.3 Tower Shape – Concepts

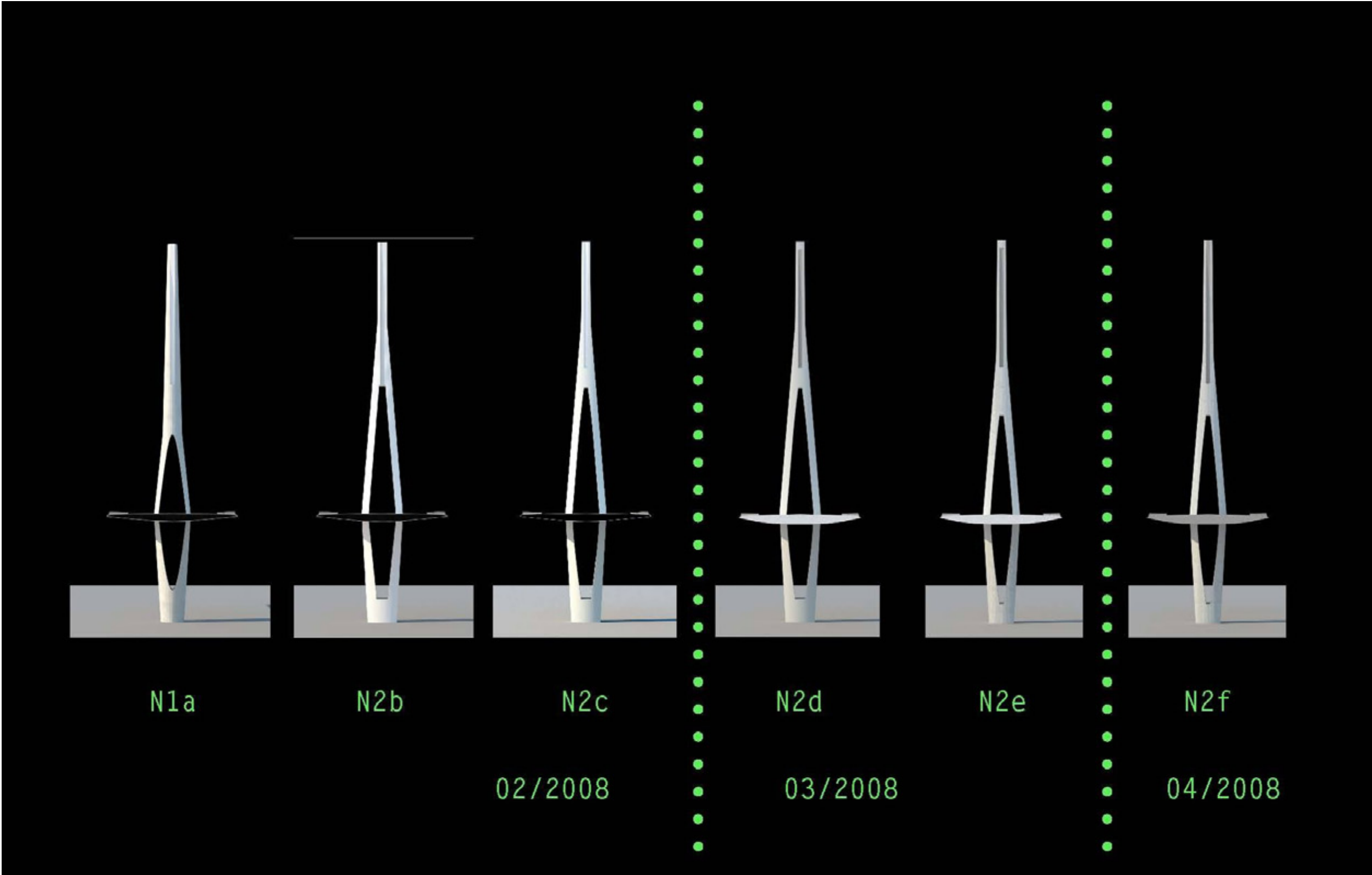


Figure C.4 Needle Tower Development

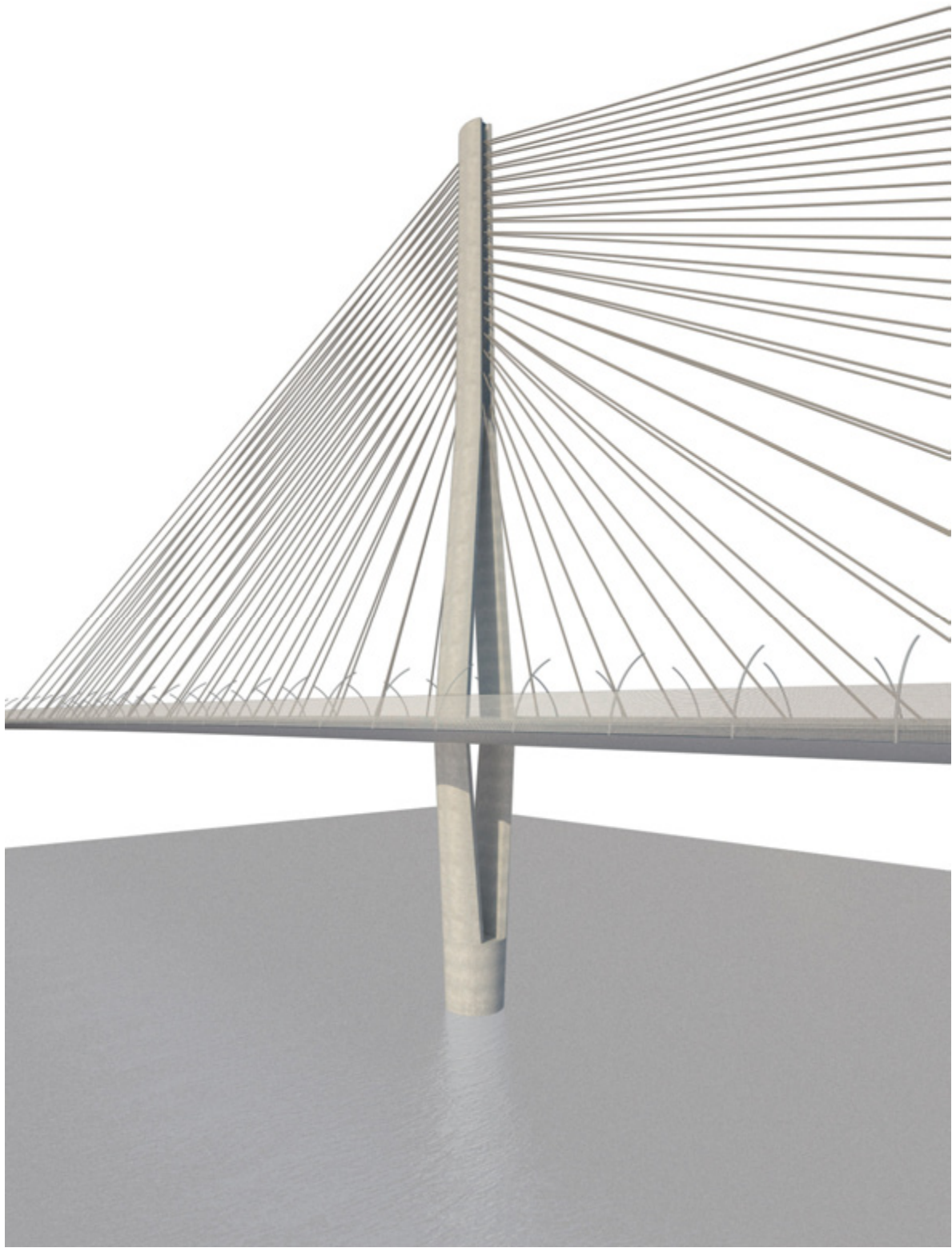


Figure C.5 N1 Final Concept

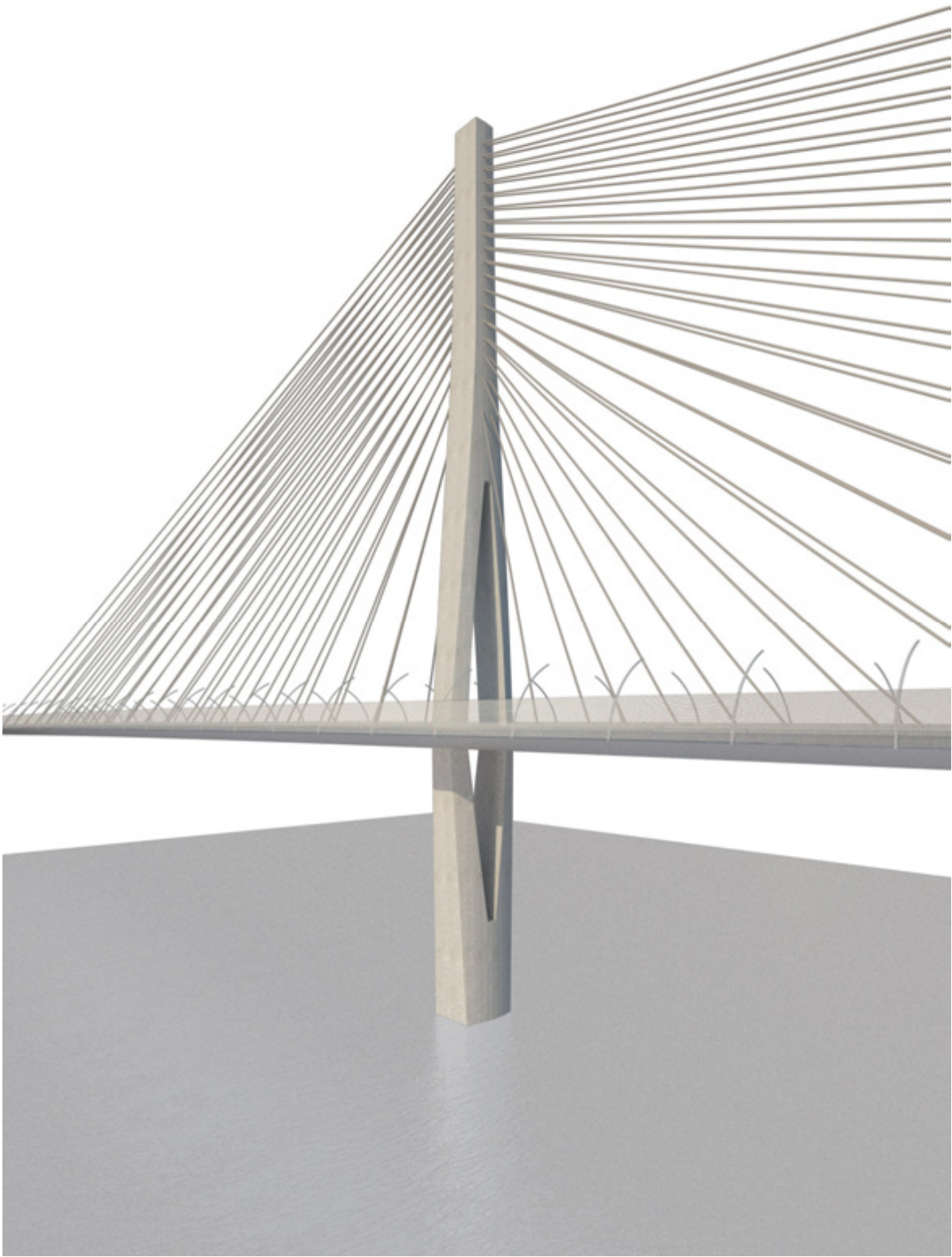


Figure C.6 N2 Final Concept

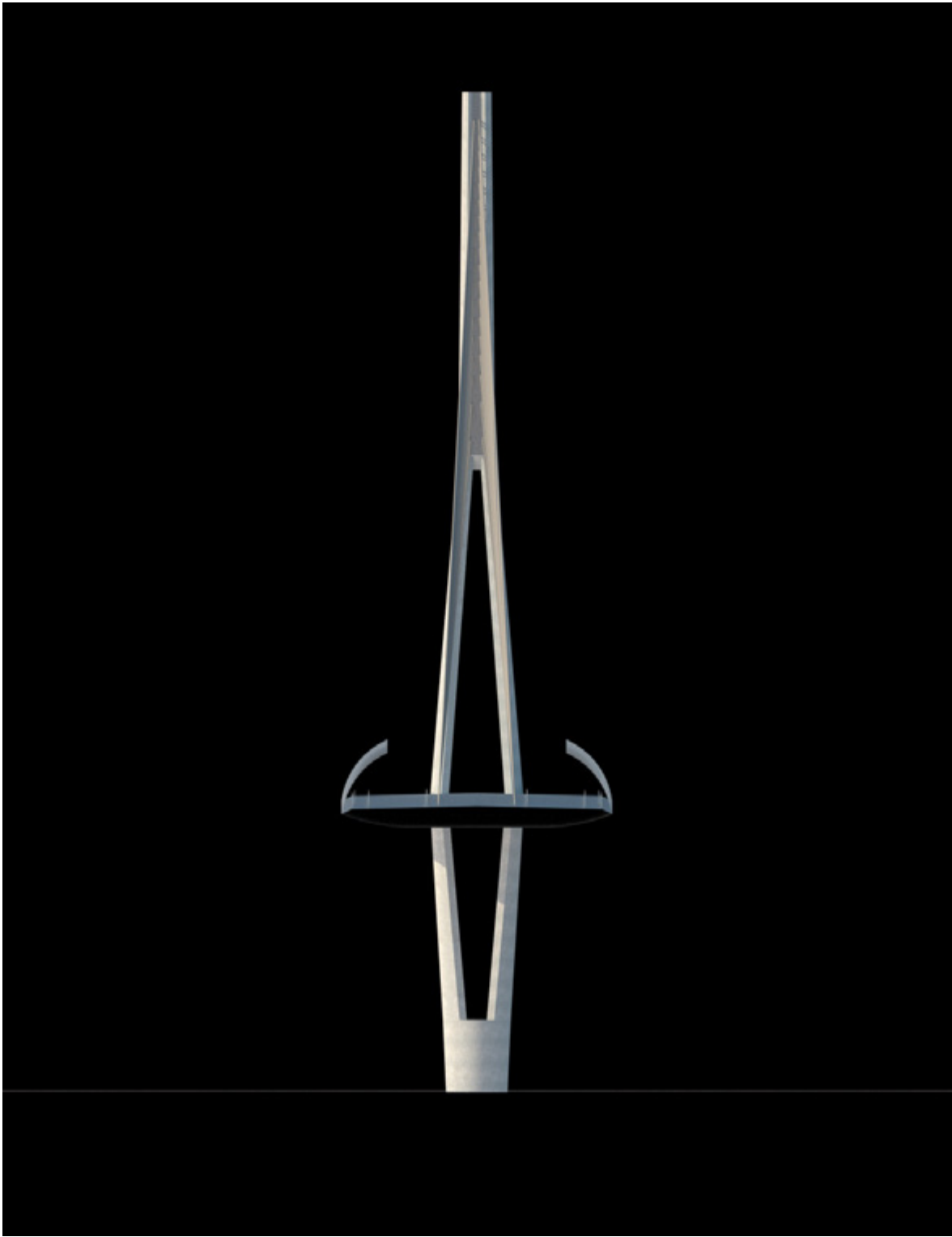


Figure C.7 N1 Final Concept

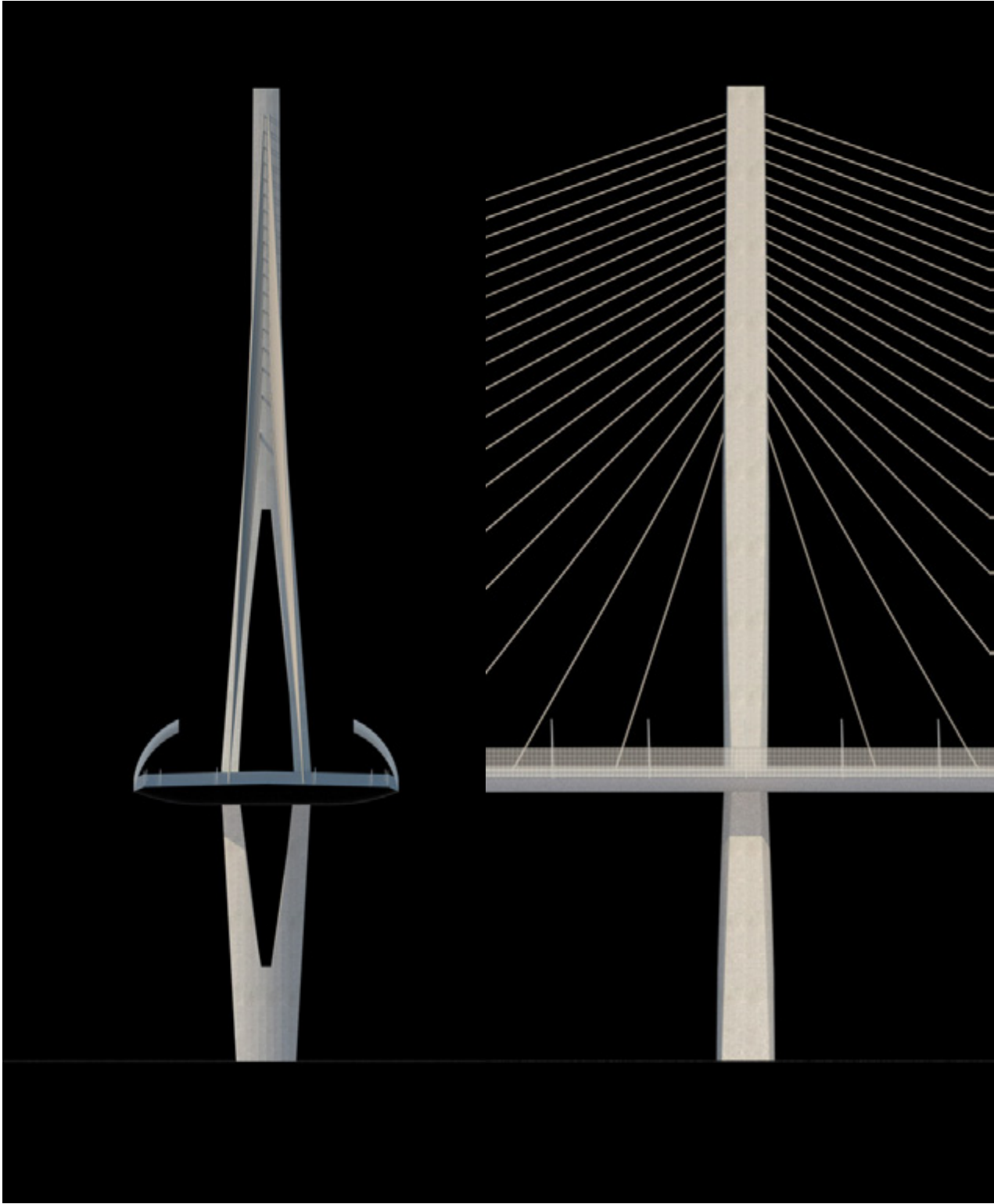


Figure C.8 N2 Final Concept



Figure C.9 Needle Tower – Perspective View

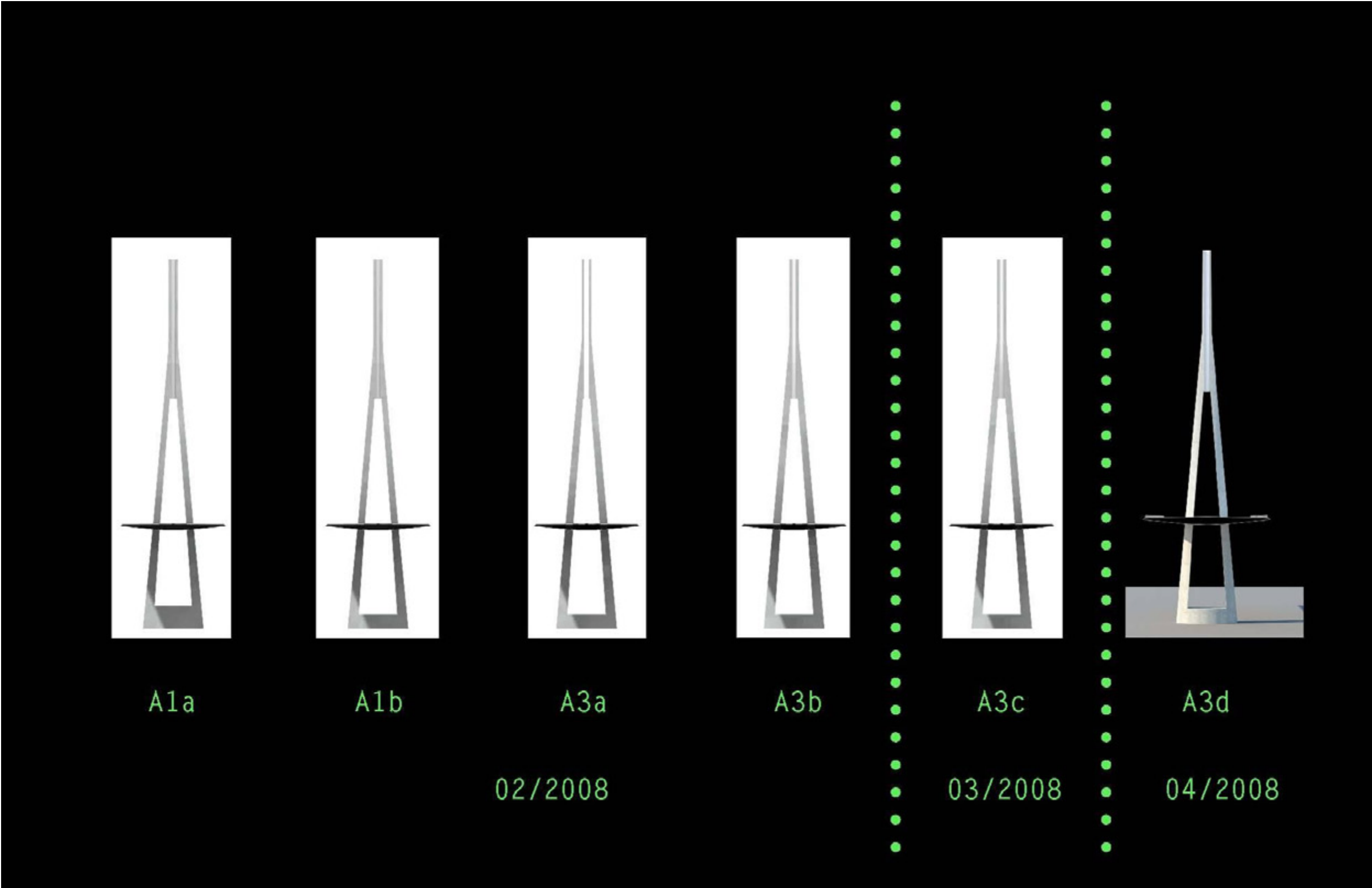


Figure C.10 Inverted Y Tower Development

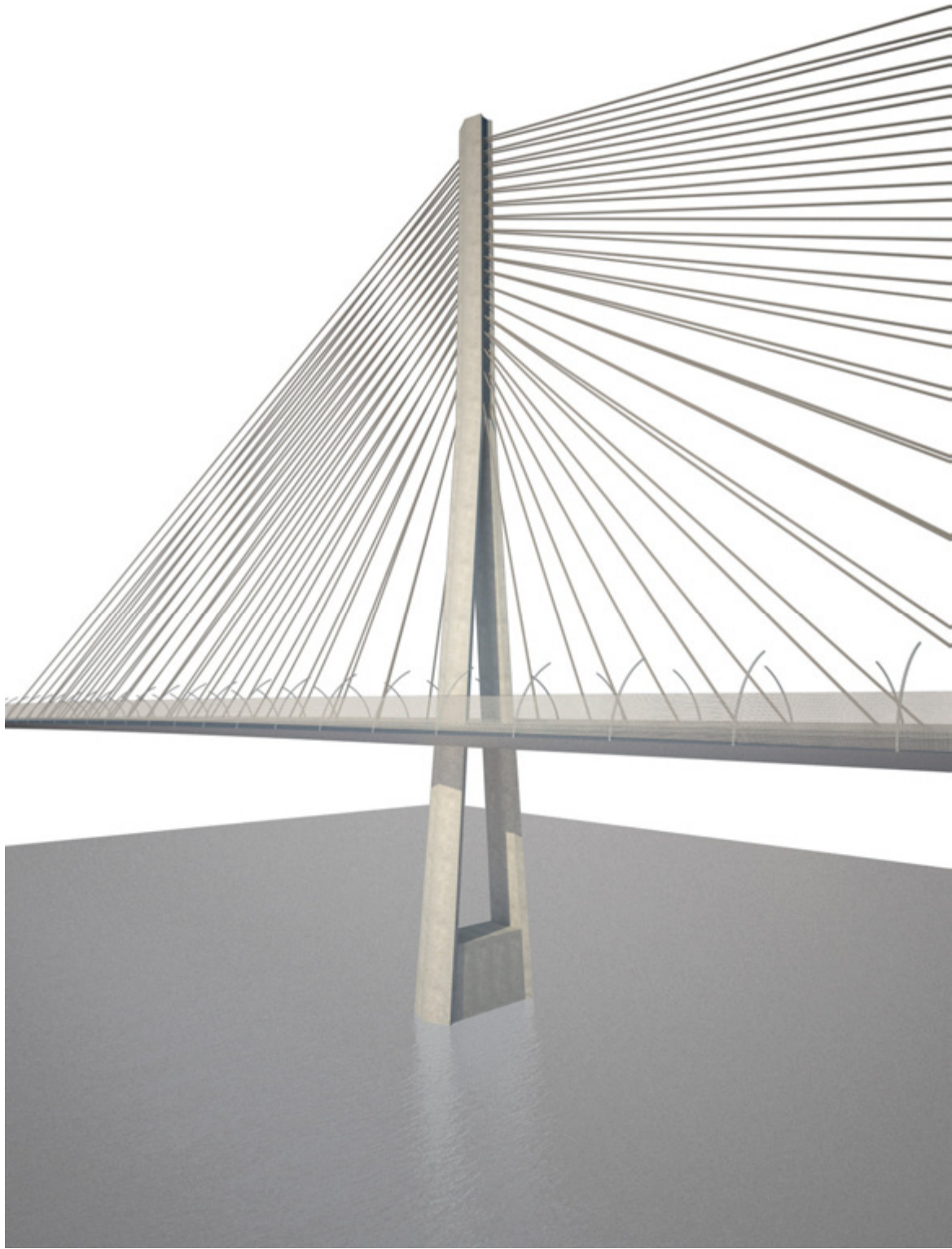


Figure C.11 Y1 Final Concept

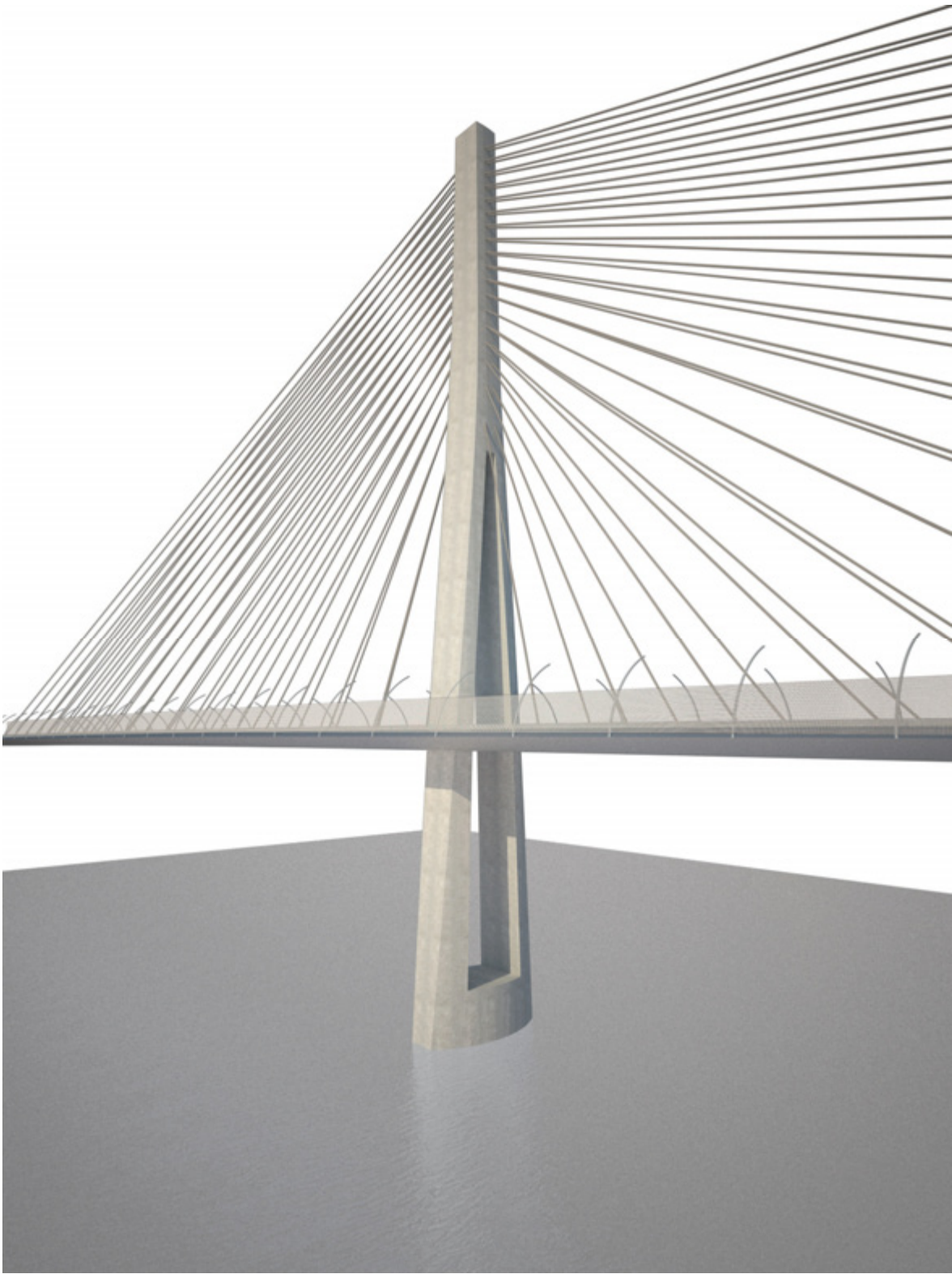


Figure C.12 Y2 Final Concept

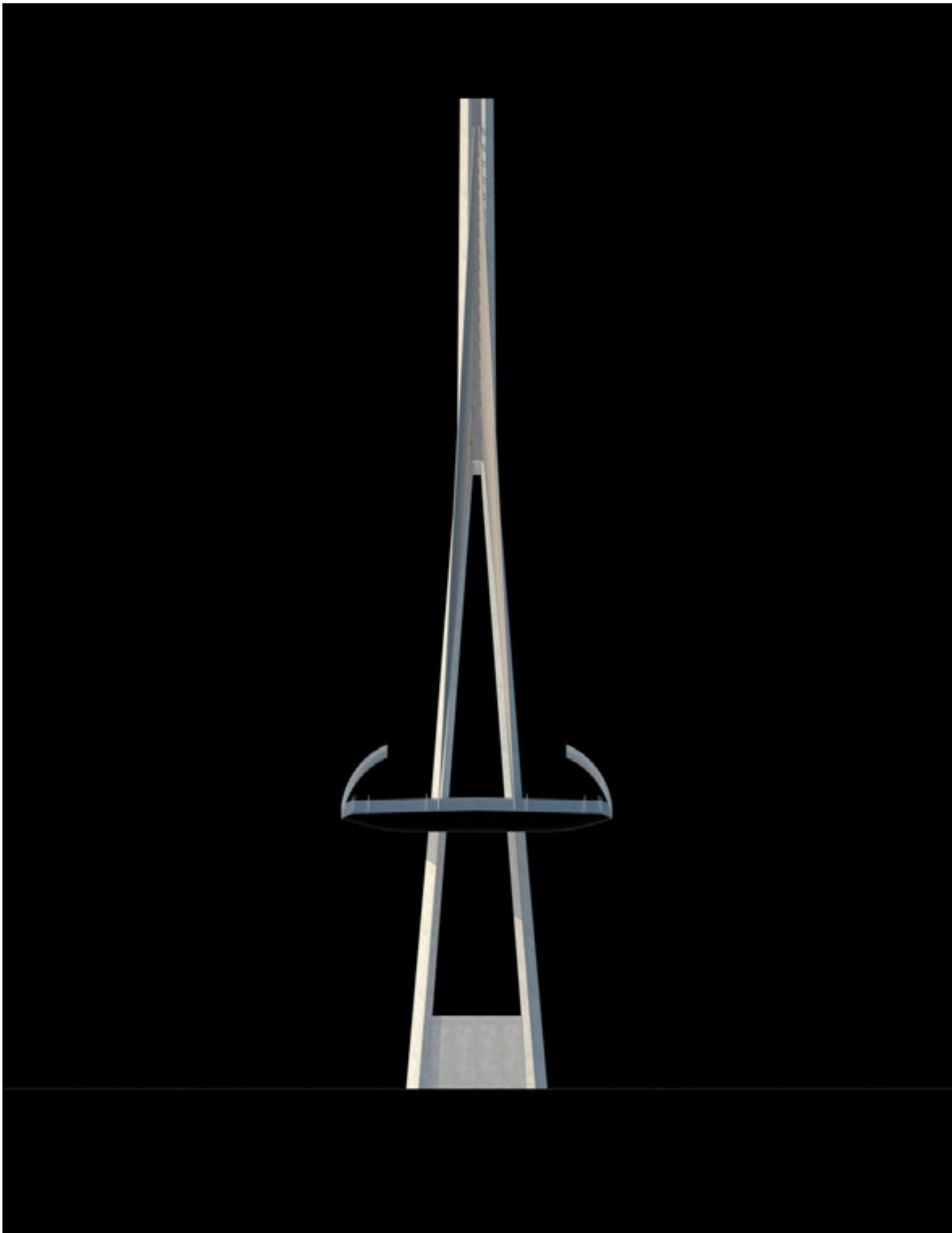


Figure C.13 Y1 Final Concept

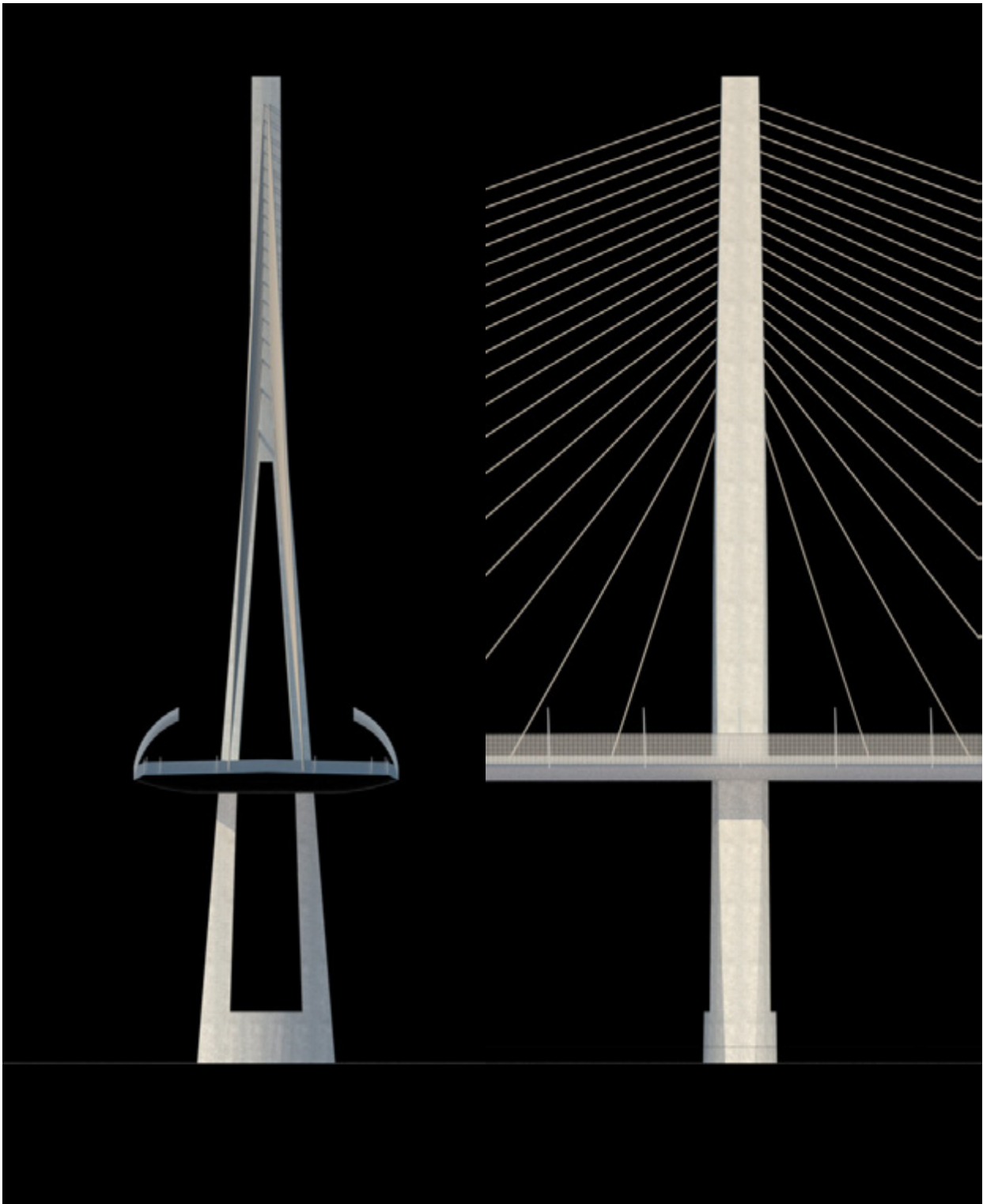


Figure C.14 Y2 Final Concept



Figure C.15 Inverted Y Tower – Perspective View



Figure C.16 H-Tower Development

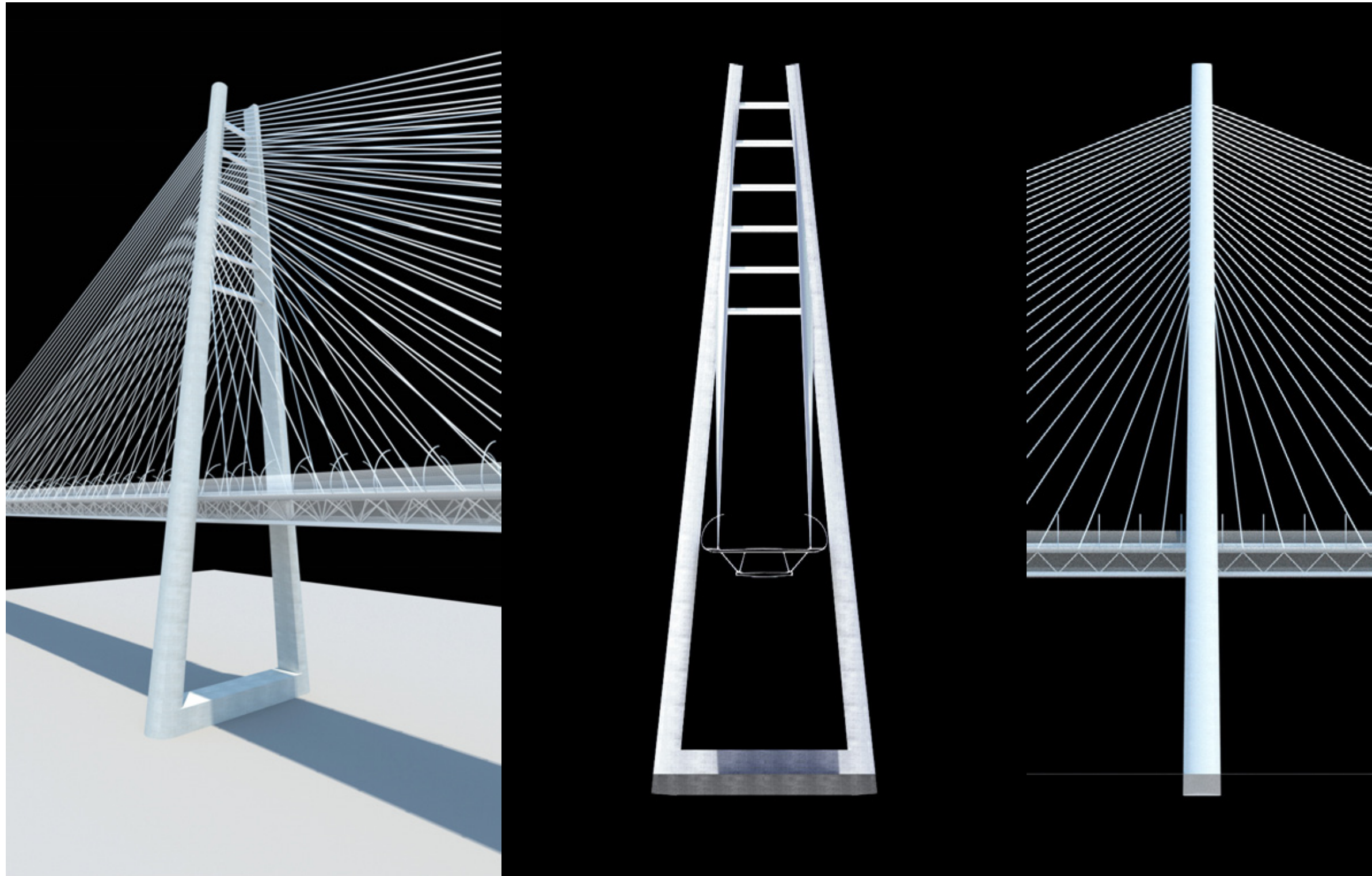


Figure C.17 H-Tower Final Concept



Figure C.18 H Shape Tower – Perspective View



Figure C.19 Comparison Needle Tower, Inverted Y Tower and H-shape Tower



Figure C.20 Needle Tower Aerial View



Figure C.21 Inverted Y Tower Aerial View



Figure C.22 H Shape Tower Aerial View

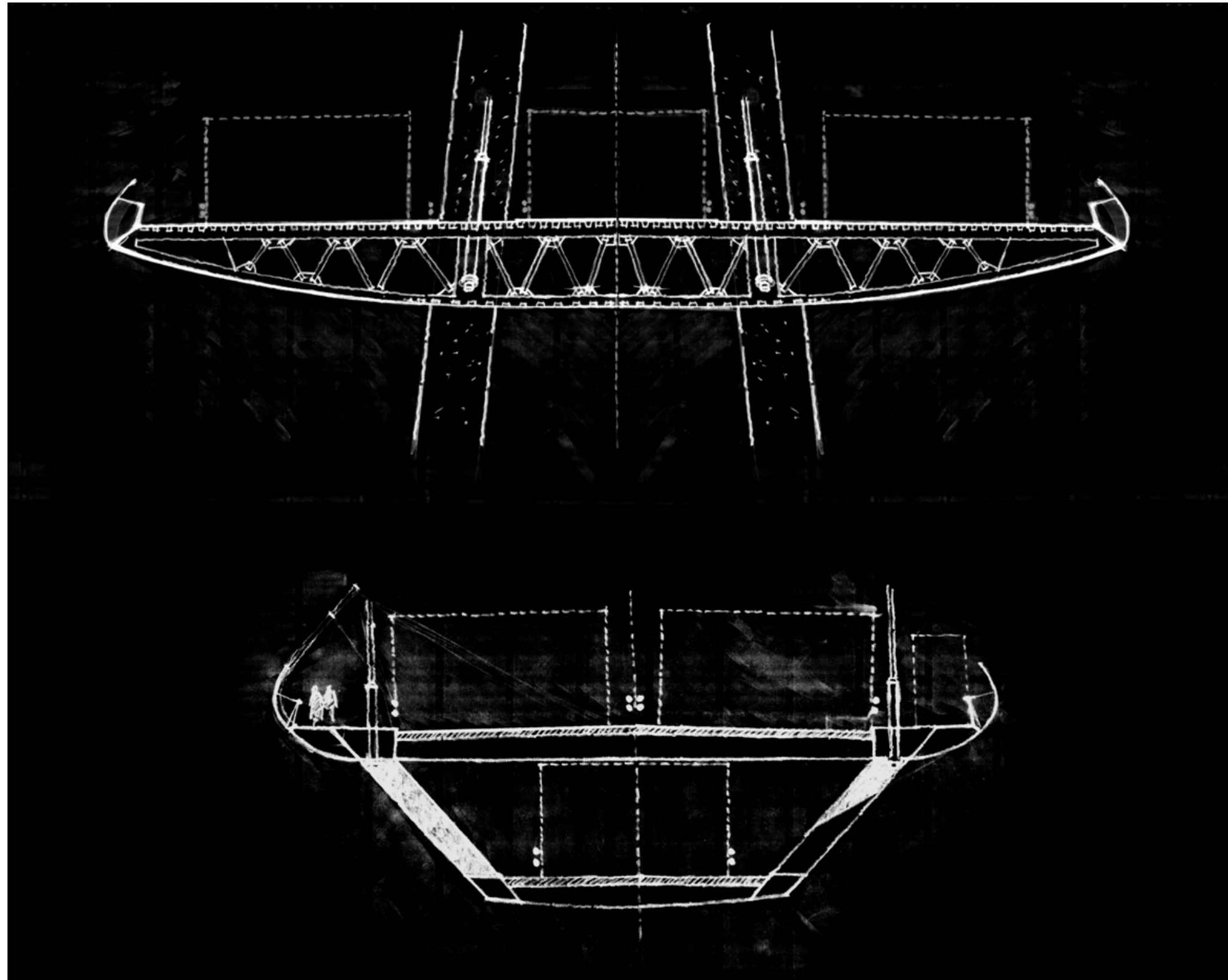


Figure C.23 Functional Cross Section Alternatives



Figure C.24 Two Plane Warren Truss

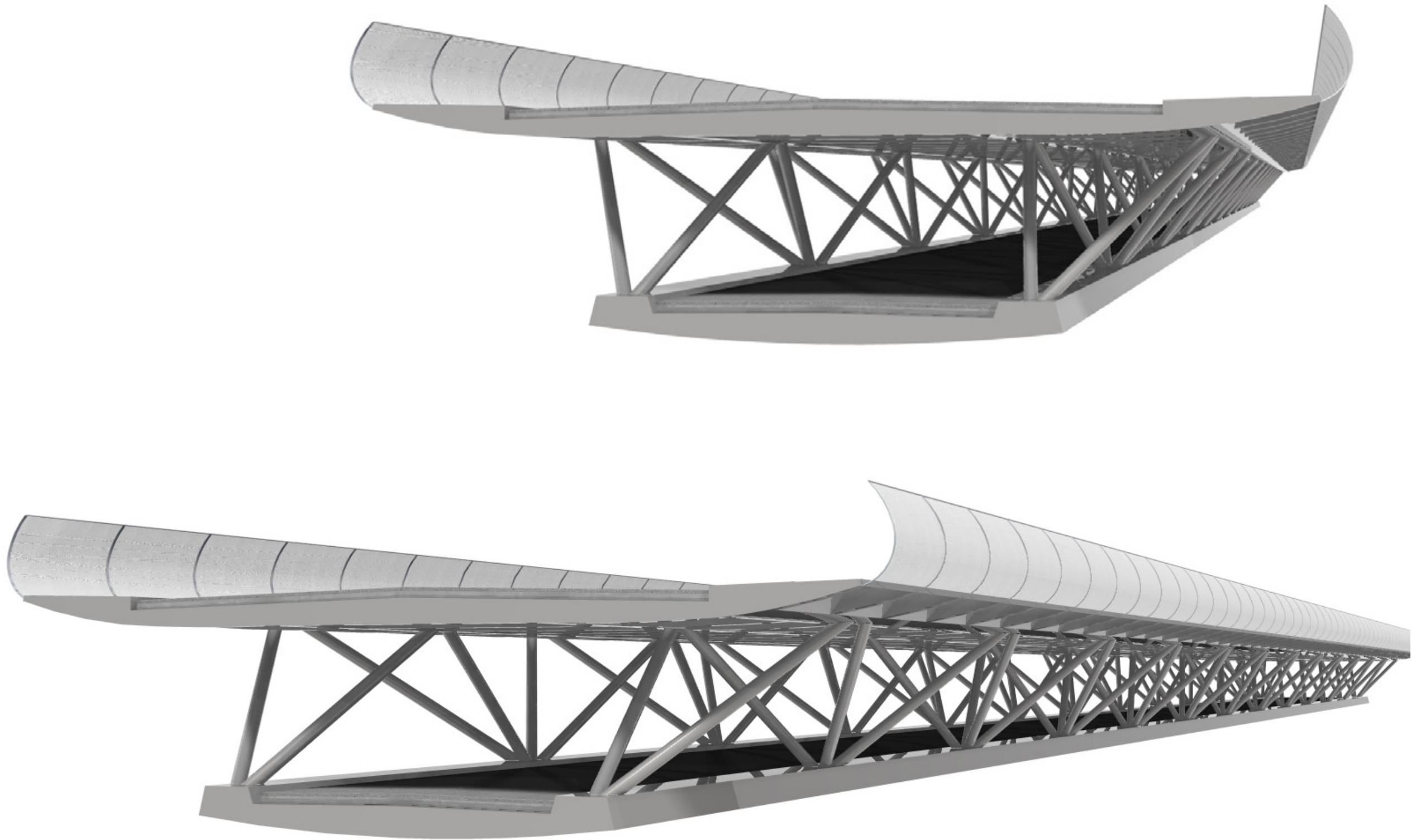


Figure C.25 Four Plane Warren Truss



Figure C.26 Two Plane Vierendeel Truss

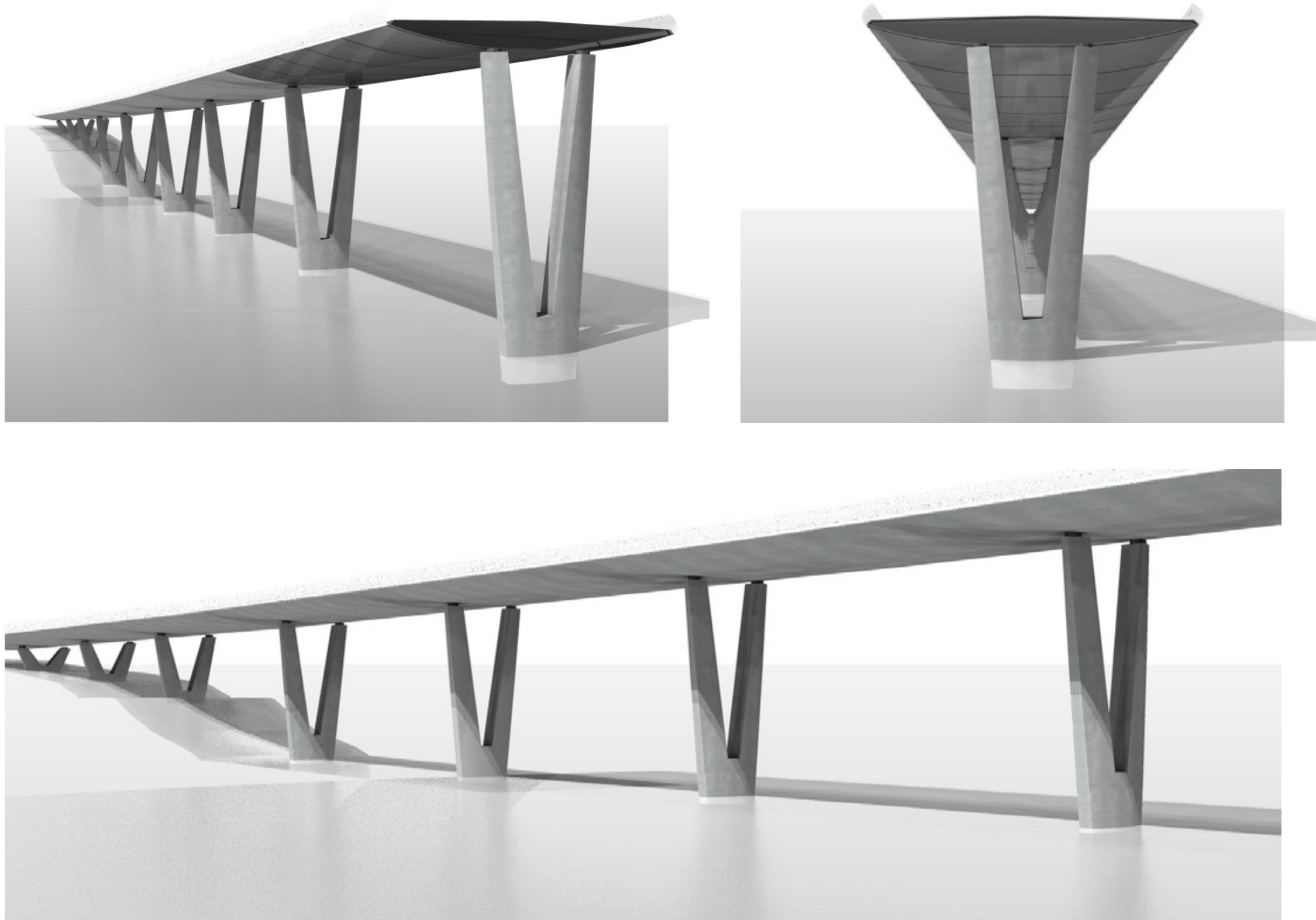


Figure C.27 Three Corridor Approach Viaducts – Composite Option

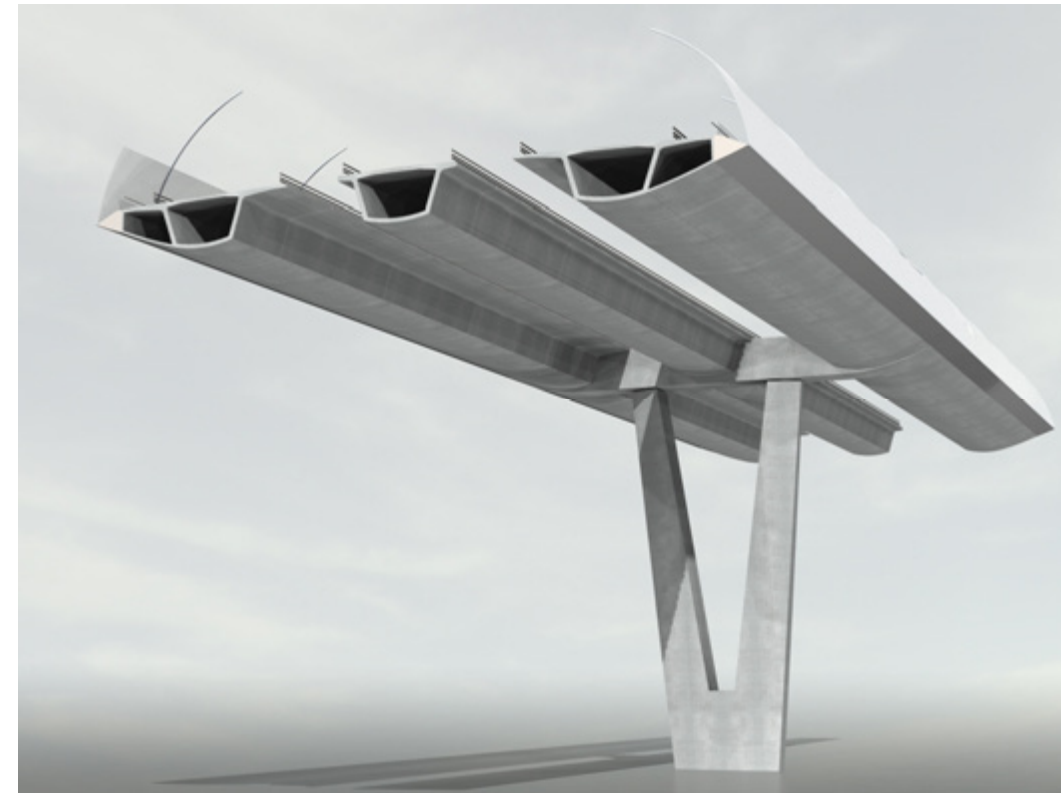
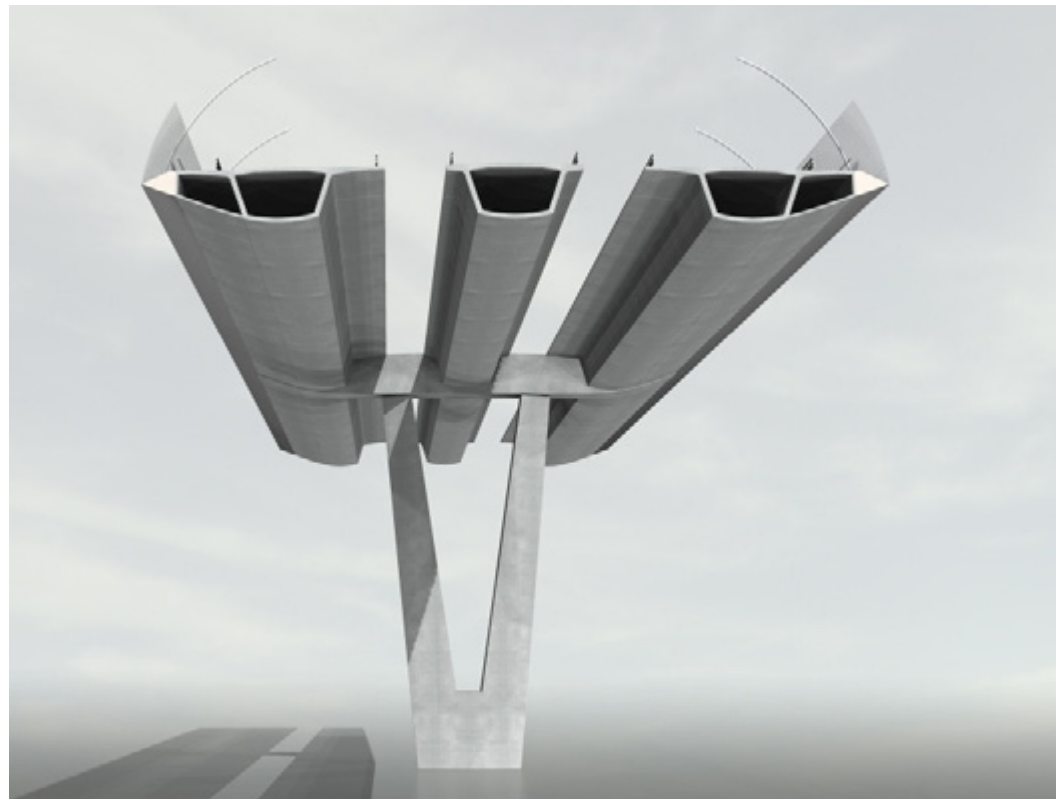


Figure C.28 Three Corridor Approach Viaducts – Concrete Option

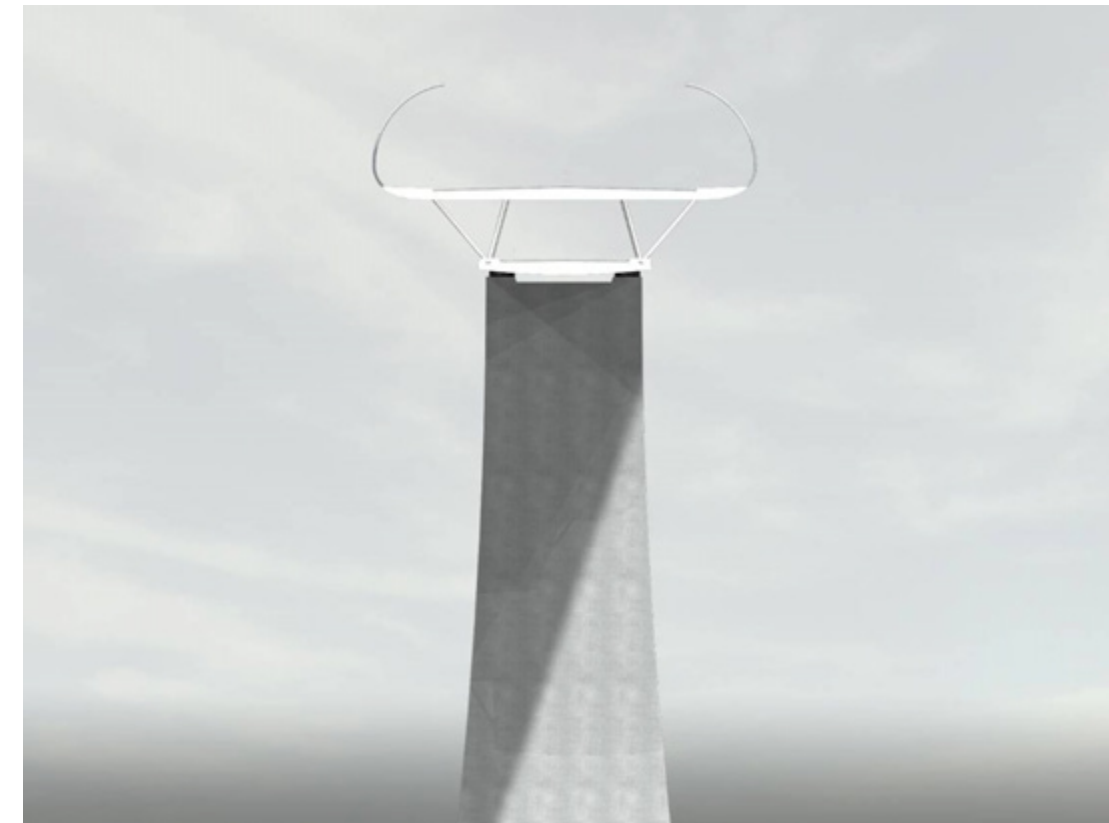
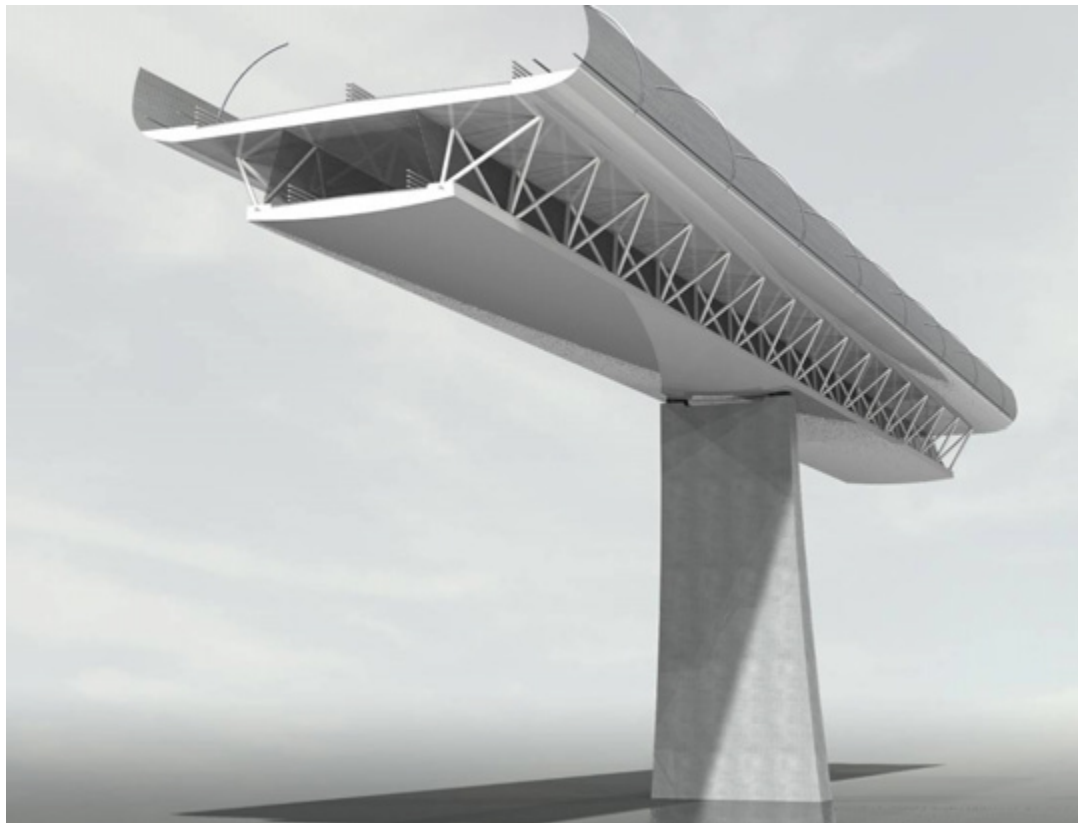
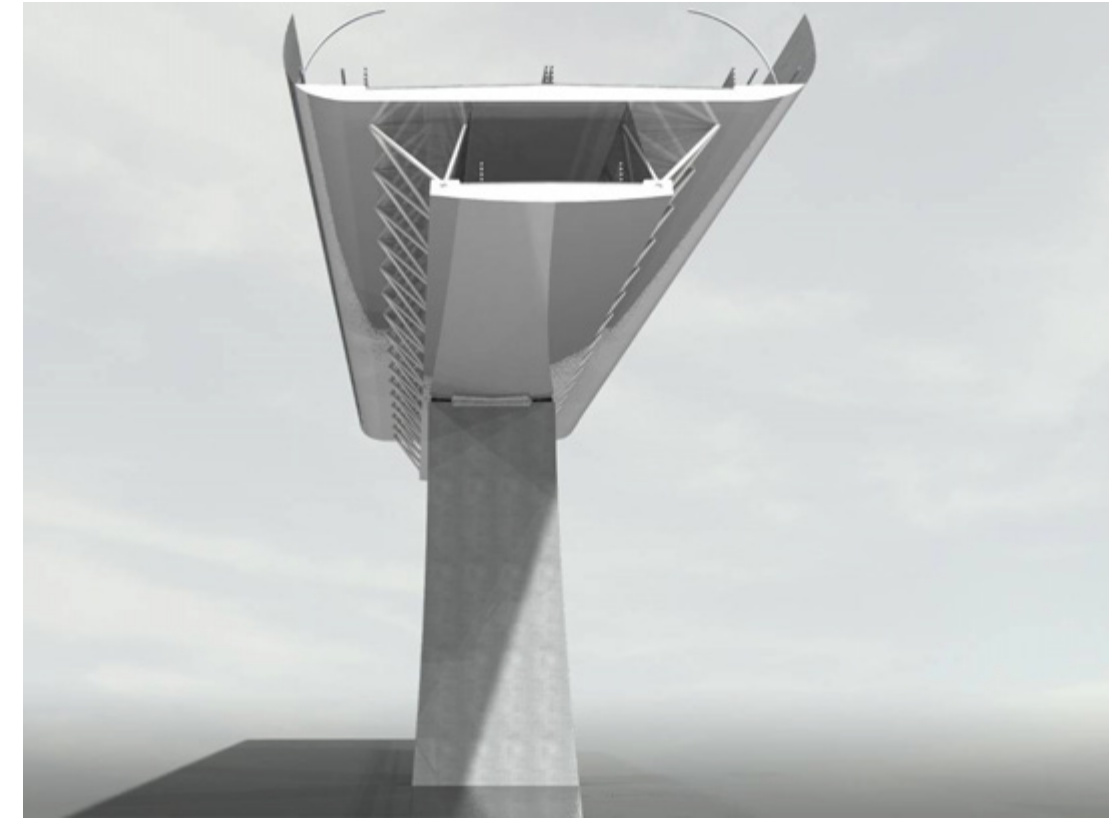
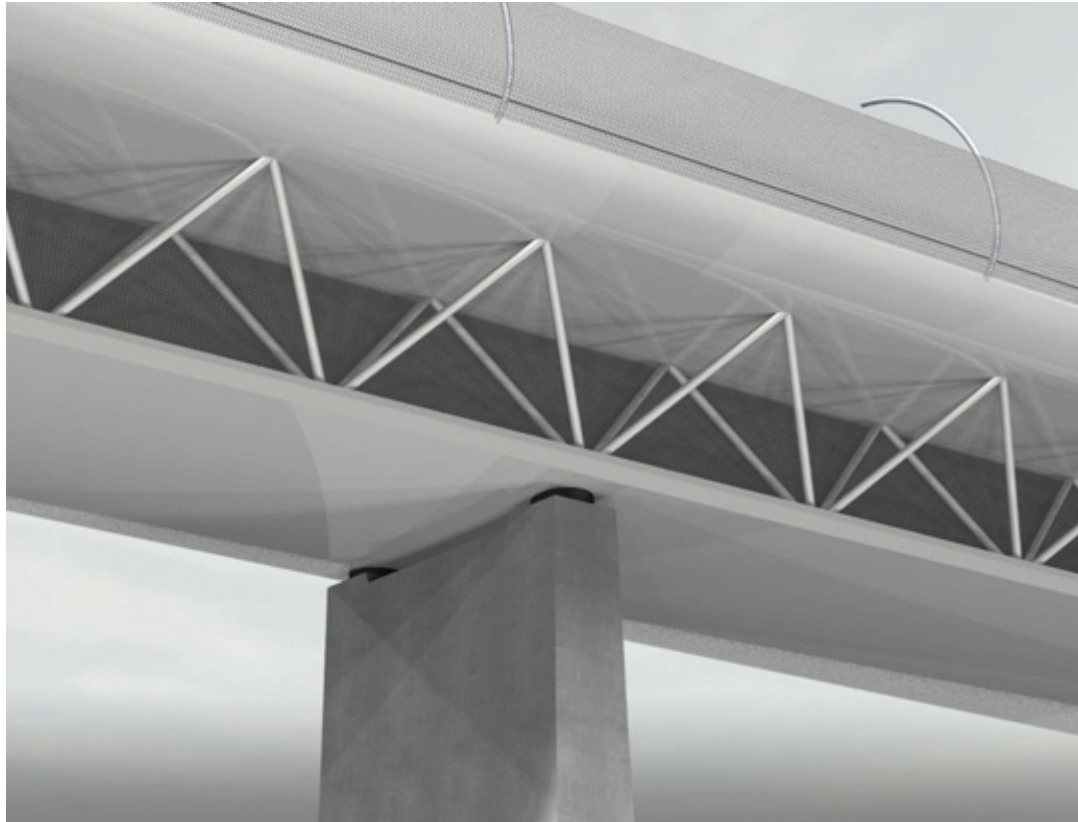


Figure C.29 Double Level Approach Viaducts – Four Plane Warren Truss

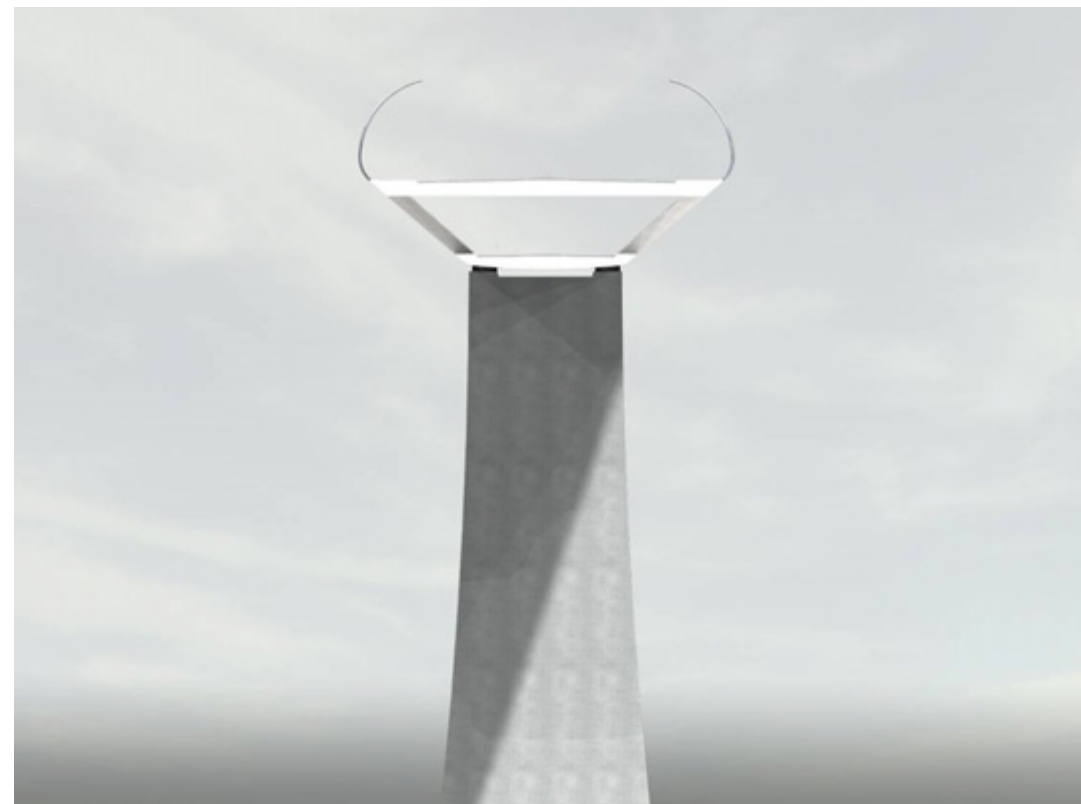
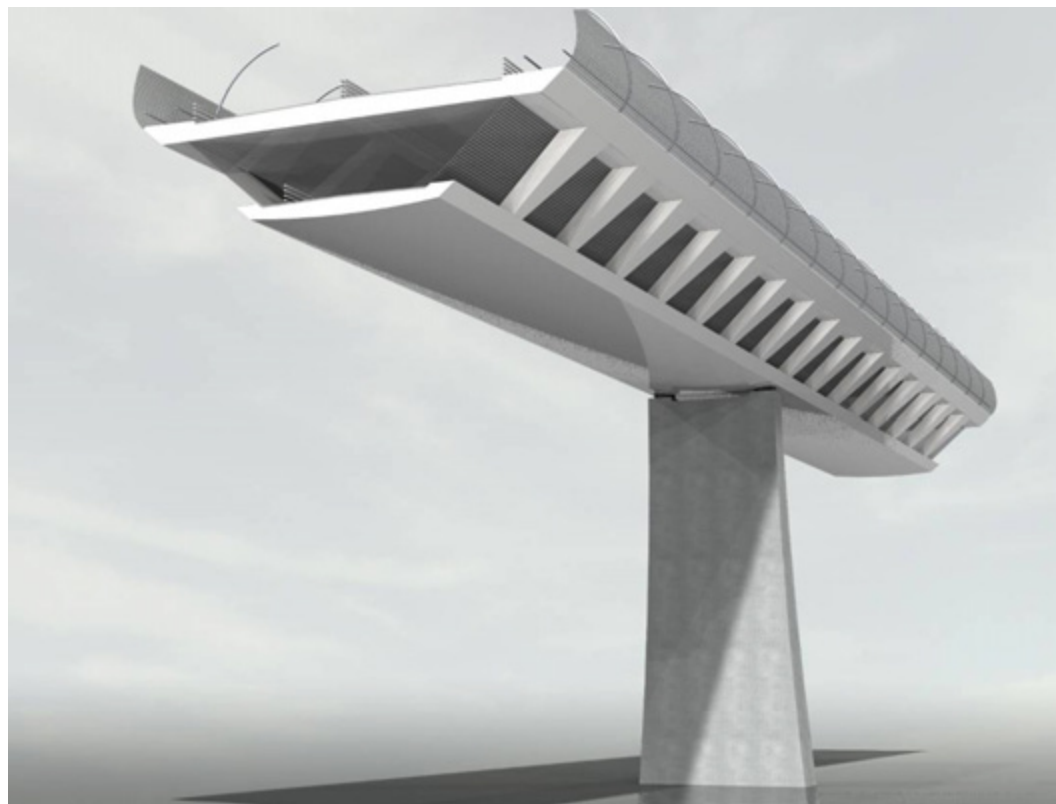
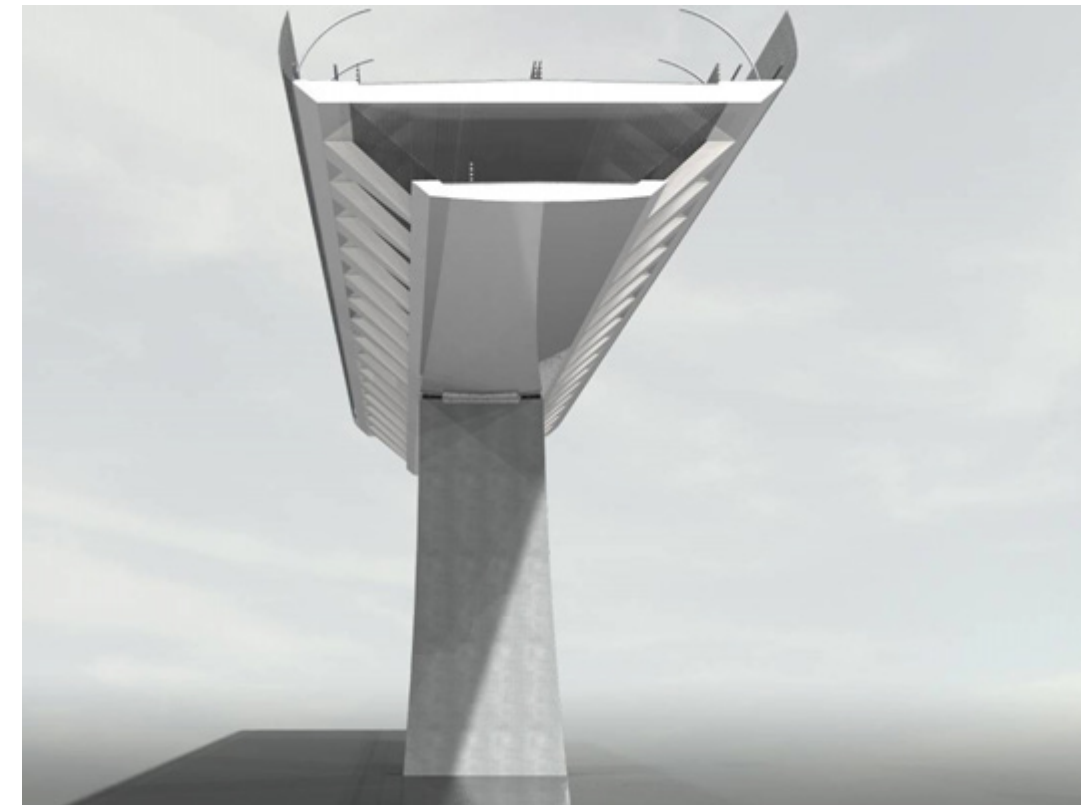
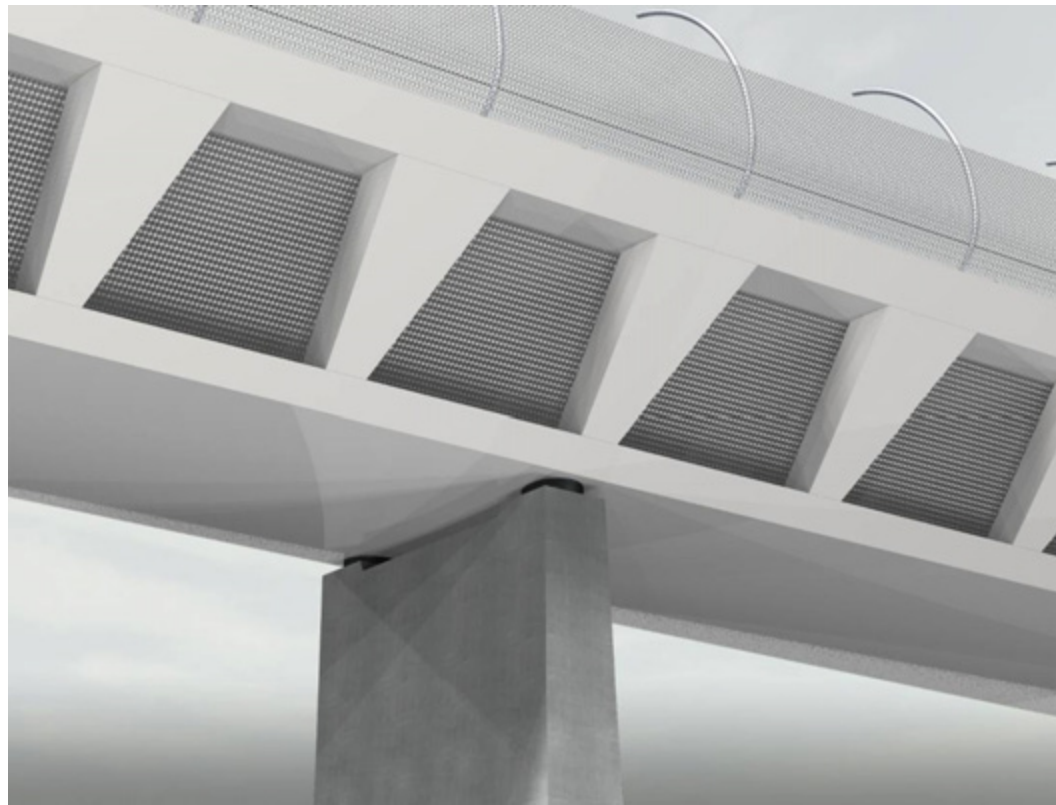


Figure C.30 Double Level Approach Viaducts – Two Plane Vierendeel Truss