

# **Appendix F**

## **Memo on Structural Engineering**

**Date** Wednesday, May 17, 2023

**To** Kim Avila, AICP ENV SP

**Address** Kimley-Horn  
660 S. Figueroa Street  
Los Angeles, CA 90017

**From** Ryan Wilkerson, Principal

**Re** LA ART: Structural Design

Nabih Youssef & Associates, Structural Engineers (NYA) is an internationally recognized structural engineering firm providing specialized structural and earthquake engineering consulting for new and existing buildings. NYA has advised on the proposed Project since 2018.

The structural design of the proposed Project's stations, junction, and towers would meet the rigorous safety standards of applicable standards, requirements, and building codes, including all mandated standards addressing environmental factors such as wind and seismic effects and gravity forces, including all impacts from the height and tilt of the structures, to ensure structural integrity and safety.

Further, advanced computer analysis modeling has been used in developing the structural concepts, and will be further employed along with advanced site-specific ground motions earthquake simulations to verify that the safety standards are met. Additionally, state-of-practice knowledge from similar infrastructure construction standards will be utilized to enhance the safety standards of the design similar to bridges, overpasses, elevated rail lines, and high-rise construction for critical infrastructure structural performance.

The structural feasibility of the system, including the cantilevered height of the stations, junction, and towers, is not limited by whether the rigorous safety standard for the design can be achieved; rather, the feasibility to accommodate the sizes of the structures required to meet the high safety standards.