

INVISIBLE INFRASTRUCTURES

A PARK ATOP A HIGHWAY AT THE PRESIDIO TUNNEL TOPS

Saturday, November 20, 2021
2:00 - 3:00 PM, Room 106
1 PDH, LA CES/HSW, AICP, FL, NY/HSW

OVERVIEW

How do you create a park atop highway tunnels, on a site with seismic risks and archaeological and historic resources, all within a National Park? Supported by design, engineering and construction ingenuity, this conversation will reveal the technical process and complexities behind the newest addition to San Francisco – the Presidio Tunnel Tops.



LEARNING OBJECTIVES

1. Understanding complexities associated with designing and constructing a dynamic site with seismic risks and archaeological resources;
2. Learn how a highly engineered environment translates to beautiful, viable and resilient ecological systems;
3. Discuss the challenges and lessons learned during construction;
4. Discuss the importance of creative collaborations between the client, designers and engineers, and contractors.



FOUND INFRASTRUCTURE

Context overview and description of the Presidio's complex layers of cultural and natural history. Learn about what spurred this project and the process leading up to its inception. Understand the agency's unique requirements and the tasks entrusted to the design team to fulfill the Presidio Trust's mission and its goals for the Tunnel Tops.



NEW INFRASTRUCTURE

Discussion of the unique design and engineering aspects associated with constructing a park: above an area with complex natural and cultural history, on a site with over 40 feet of grade change, atop new highway tunnels, adjacent to the San Francisco Bay. Learn about the sub-surface layers that were carefully developed to realize the world-class park envisioned on the surface.

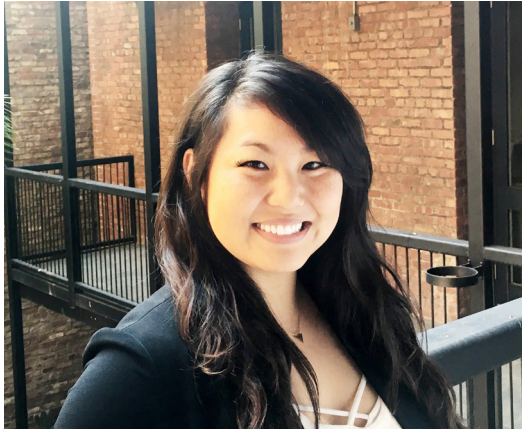


HIDDEN INFRASTRUCTURE

Overview of the construction of the park and the challenges and complexities that the project was faced with. Learn how landscape architects play a key role in team coordination and creative collaborations between the client, design team and contractors for this highly technical project. Discuss some of the "hidden" treasures that are built into the site features.



SPEAKERS



**Kerry Huang, Landscape Architect, ASLA
James Corner Field Operations**

Kerry Huang is a licensed landscape architect and Associate at James Corner Field Operations. She is leading the extensive design team, including architects, engineers, and horticulturalists for the construction of Tunnel Tops Park. Her experience has been dedicated to designing public parks, both locally in San Francisco and nationally. As both a designer and project manager, her focus is to ensure that projects are delivered true to its design intent. This means delivering a public amenity that is impactful, grounded in its site context and is built with high quality materials and standards so that it may endure and age gracefully.



**Rania Rayes, Landscape Architect, ASLA
Presidio Trust**

Rania Rayes is a licensed landscape architect and has worked as a Senior Project Manager in the Park Design and Construction Department of the Presidio Trust of San Francisco since 2005. She managed the Presidio Tunnel Tops Project landscape design and is co-managing its construction. She has led the planning, design, and construction of various projects in the Presidio, including trails, overlooks, wetland restoration, and historic landscape rehabilitation. She holds a Bachelor of Architecture from the American University of Beirut and a Master of Landscape Architecture from the University of California at Berkeley.



**Matt Jones, Civil Engineer, ASLA
Magnusson Klemencic Associates**

Matt is a Senior Principal and Civil Engineering Director at Magnusson Klemencic Associates (MKA), an award-winning, civil and structural engineering firm based in Seattle. He served as Civil Managing Principal on the Presidio Tunnel Tops Project. With experience ranging from Drip Irrigation Project Coordinator in rural Kenya, to Project Manager for a 2,500-acre, nationally recognized "Green Community," to Principal-in-Charge on waterfront parks from coast to coast, Matt brings unusually broad perspectives to his projects. He is a Fellow at the American Society of Civil Engineers, a contributing author to the "Non-Potable Water Reuse Practice Guide," and a LEED accredited professional.

