PERSONNEL QUALIFICATIONS

Una M. Gilmartin | Principal

EDUCATION

- California Polytechnic State University
  - Bachelor of Science, Civil Engineering, 1991
- University of California, Berkeley
  - Master of Science, Structural Engineering, 1992

PRACTICE AREAS

- Structural Evaluation
- Concrete Deterioration
- Historic Preservation
- Repair and Rehabilitation Design
- Earthquake Damage Investigation
- Seismic Evaluation
- Seismic Upgrade Design

REGISTRATIONS

- Professional Engineer in CA and MI

PROFESSIONAL AFFILIATIONS

- Association for Preservation Technology International
- California Preservation Foundation
- International Council on Monuments and Sites (ICOMOS)

TECHNICAL COMMITTEES

- ACI 369 - Seismic Repair and Rehabilitation

CONTACT

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EXPERIENCE

Una Gilmartin has significant experience in the evaluation and rehabilitation design for existing structures, with particular expertise in designs for historic structures. Her work has included condition assessments, structural evaluations, and materials conservation for historic buildings and bridges. Ms. Gilmartin specializes in strategic upgrades to structures, including early reinforced concrete, stone masonry, and adobe structures. She has developed designs for a number of National Historic Landmark (NHL) structures.

Ms. Gilmartin has led multidisciplinary teams in the assessment and repair design for existing structures and facilities. She is skilled in using nondestructive testing techniques, materials testing, and instrumentation to conduct investigations and to develop appropriate repairs. Ms. Gilmartin has considerable experience in post-earthquake safety evaluations. Her work has included field documentation, development of upgrade designs, estimation of upgrade costs, and report preparation.

Ms. Gilmartin's projects have received the California Governor's Award for Historic Preservation, as well as design awards in other U.S. states.

REPRESENTATIVE PROJECTS

- Washington Monument - Washington, D.C.: Repair of earthquake damage to 550-foot-tall marble monument
- Lincoln Memorial - Washington, D.C.: Post-earthquake safety evaluation and conceptual repairs
- Alcatraz Cellhouse - San Francisco, CA: Construction documents for structural stabilization and seismic upgrade design of historic prison
- Perry's Victory Memorial - Put-in-Bay, OH: Concrete assessment and design of structural repairs for 350-foot-tall granite and concrete national monument
- Sather Gate - Berkeley, CA: Restoration and seismic upgrade of historic bronze-clad gate, design of new framing, and materials conservation
- Alcatraz Island, Warden's House Slope - San Francisco, CA: Stabilization of sandstone slope below historic ruins
- San Francisco Maritime Amphitheater, Aquatic Park (NHL) - CA: Design of comprehensive rehabilitation of historic Works Progress Administration facility
- U.S. Department of State Facilities - Taipei, Taiwan: Earthquake damage assessments
- Alan Bible Visitor Center - Lake Mead National Recreation Area, NV: Rehabilitation design for Mission 66 visitor center
- Klondike Gold Rush - Skagway, AK: Seismic assessment and schematic repair design for five historic buildings
- Going-to-the-Sun-Road - West Glacier, MT: Field assessment and repair recommendations for seven historic concrete and stone bridges and culverts
- Volcano House - Volcano National Park, HI: Seismic assessment and upgrade design of historic hotel
- Crystal Cove Historic District - Laguna Beach, CA: Structural and seismic assessment of historic beach cottages
- Rancho San Andreas Castro Adobe - Watsonville, CA: Seismic upgrade design of historic adobe and restoration of architectural elements
- Jack London State Park - Glen Ellen, CA: Cultural Landscape Report and structural assessment
- Wawona Hotel - Yosemite National Park, CA: Preparation of historic structure report to guide treatment of seven historic buildings
- Earthquake Damage Assessment - Mineral, VA; San Simeon Earthquake, CA; Chi-Chi Earthquake, Taipei, Taiwan; Northridge Earthquake, CA; and Loma Prieta Earthquake, CA