San Francisco War Memorial Veterans Building
San Francisco, CA
Project Contacts: Ronald Hamburger, Stephen Harris, Carolyn Searls
The San Francisco War Memorial Veterans Building and adjacent Opera House are aesthetically-similar, Beaux-Arts structures commemorating U.S. veterans of World War I. The Veterans Building...

Services: Building Enclosure Rehabilitation, Structural Rehabilitation
Markets: Cultural
Keywords: Award Winning, Code Compliance, Historic, Masonry, Masonry-Terra Cotta, Metal, Metal-Steel, Monumental Buildings, National Register of Historic Places, Preservation Technology, Revit/BIM, Roofing, Seismic Engineering and Retrofit, Skylight, Stone-Granite, Theater/Performing Arts

Millennium Tower, 301 Mission Street
San Francisco, CA
Project Contacts: Ronald Hamburger
With bedrock more than 200 ft below street level, the fifty-eight-story Millennium Tower, like most downtown high-rises, is founded on piles driven through soft, compressible clay soils deposited...

Services: Structural Investigation, Structural Rehabilitation
Markets: Office
Catholic Schools
San Francisco, CA
Project Contacts: Stephen Harris

Based on recommendations from The Private Schools Earthquake Safety Working Group, the Earthquake Safety Implementation Program (ESIP) for the City and County of San Francisco worked with the...

Services: Structural Investigation
Markets: Education - K-12
Keywords: Concrete, Condition Assessment-Multi-Building, Masonry, Metal-Steel, Seismic Engineering and Retrofit, Wood

Idaho National Laboratory, Fuel Manufacturing Facility (MFC-704), Seismic Fragility Evaluation
Idaho Falls, ID
Project Contacts: Philip Hashimoto

The Materials & Fuels Complex (MFC) at the Idaho National Laboratory focuses on research and development of nuclear fuels. SGH developed seismic fragilities for the MFC-704 structure (also...

Services: Structural Rehabilitation
Markets: Nuclear
Keywords: Nuclear Facility, Seismic Engineering and Retrofit, Seismic Probabilistic Risk Assessment (PRA)
**Brooklyn Basin**

Oakland, CA

**Project Contacts:** Sam Yao

The Brooklyn Basin project revitalizes 65 acres along Oakland’s waterfront, transforming an industrial site into a mixed-use development. The new neighborhood offers more than 3,000 residences,...

**Services:** Structural Design

**Markets:** Ports & Terminals

**Keywords:** Bridge, Pedestrian, Condominium, Marine Engineering, Multi-Family, Pier/Wharf/Boat Ramp, Pile, Residential, Seismic Engineering and Retrofit

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**Davidson College, Interdisciplinary Science Center**

Davidson, NC

**Project Contacts:** Jason Der Ananian, Pedro Sifre

Looking to expand and bring a more interdisciplinary approach to academics, Davidson College built the E. Craig Wall Academic Center. The project included the new 135,000 sq ft Wall Center,...

**Services:** Building Enclosure Design, Structural Design

**Markets:** Education - College & Prep

**Keywords:** Below-Ground Waterproofing, Building Science, Concrete, Condition Assessment, LEED Projects, Revit/BIM, Roofing, Seismic Engineering and Retrofit, Structural Strengthening, Thermal and Moisture Drive
Applied Technology Council, ATC-58 Project
San Francisco, CA

Project Contacts: Ronald Hamburger

In the mid-1990s, the Federal Emergency Management Agency (FEMA) supported a joint effort of the Applied Technology Council (ATC), American Society of Civil Engineers, and Building Seismic Safety...

Services: Structural Design, Structural Investigation
Markets: Government
Keywords: Analytical Studies, Performance-based, Research/Development, Seismic Analyses, Seismic Engineering and Retrofit

Hotel Durant
Berkeley, CA

Project Contacts: Paul Cordova

The Hotel Durant, built in 1929, is listed on the City of Berkeley Landmark Preservation List. A year after construction, the hotel added an east wing for a total of 145 guest rooms. SGH was...

Services: Structural Rehabilitation
Markets: Hospitality
Keywords: Condition Assessment, Historic, Preservation Technology, Seismic Engineering and Retrofit, Structural Strengthening

Chevron Richmond Refinery
Richmond, CA

Project Contacts: Ronald Hamburger

Founded in the early 1900s, Chevron’s Richmond Refinery produces gasoline, diesel, jet fuel, and lubricants. Since the refinery is located within the corporate boundary of the City of Richmond and...

Services: Structural Investigation, Structural Rehabilitation
Markets: Manufacturing & Industrial
Keywords: Code Compliance, Fire, Foundation, Nonlinear, Pier/Wharf/Boat Ramp, Risk Assessment, Seismic Engineering and Retrofit
University of California, Berkeley Art Museum and Pacific Film Archive

Berkeley, CA

Project Contacts: Jeffry Ceruti, Ronald Hamburger, Kenneth Klein

The University of California needed to seismically retrofit the Berkeley Art Museum and Pacific Film Archive, but determined it would negatively affect exhibit space. Needing a new home for the...

Services: Building Enclosure Design, Structural Design, Structural Rehabilitation

Markets: Education - College & Prep

Keywords: Award Winning, Below-Grade, Below-Ground Waterproofing, Cladding / Recladding, Construction Administration, Metal, Museum, Peer Review, Roofing, Seismic Engineering and Retrofit

Glendale High School Administration Building

Glendale, CA

Project Contacts: Ronald Hamburger

Constructed in 1969, this two-story building houses administrative offices and the school library. As part of a campus modernization project, Glendale High School wanted to mitigate the seismic...

Services: Structural Rehabilitation

Markets: Education - K-12

Keywords: Nonlinear, Performance-based, Seismic Engineering and Retrofit, Structural Strengthening
Bay Area Rapid Transit, Earthquake Safety Program

Oakland, CA

Project Contacts: Ronald Hamburger

Carrying about 360,000 commuters every day, Bay Area Rapid Transit (BART) is an important part of the region’s transportation infrastructure. Knowing that the transit system could experience a...

Services: Structural Rehabilitation

Markets: Transportation

Keywords: Concrete, Condition Assessment, Parking Structure, Seismic Engineering and Retrofit, Shear Wall, Structural Adequacy Assessment, Term Contracts and IDIQs

Sacramento Valley Station formerly Southern Pacific Railroad Depot

Sacramento, CA

Project Contacts: Carolyn Searls

Providing passenger service to the region since 1926, Sacramento Valley Station, formerly Southern Pacific Railroad Depot, is listed on national, state, and local historic registers. SGH...

Services: Building Enclosure Rehabilitation, Structural Rehabilitation

Markets: Transportation

Keywords: Adhesives, Sealants, and Coatings, Award Winning, Code Consulting, Concrete, Due Diligence, Historic, Masonry, Masonry-Terra Cotta, Masonry-Unreinforced, National Register of Historic Places, Plaster, Preservation Technology, Seismic Engineering and Retrofit, Station
The Epiphany
Palo Alto, CA
Project Contacts: Anindya Dutta, John Sumnicht

The original Casa Olga building was an eight-story, reinforced concrete flat slab structure with reinforced masonry shear walls. The building served as a convalescence home until new owners...

Services: Structural Rehabilitation
Markets: Hospitality
Keywords: Concrete, Concrete-Post-tensioned, Seismic Engineering and Retrofit, Shear Wall, Structural Strengthening

Keck Telescope
Kamuela, HI
Project Contacts: Frank Kan, Andrew Sarawit

On 15 October 2006, a large earthquake damaged both telescopes at Keck Observatory causing them to miss weeks of observation. Following this event, the observatory wanted to upgrade the structural...

Services: Structural Investigation
Markets: Science & Defense
Keywords: Finite Element Analysis, Seismic Analyses, Seismic Engineering and Retrofit, Telescope

Seismic Retrofit of Marine Terminal
Martinez, CA
Project Contacts: William Bruin, Gayle Johnson

SGH was the engineer of record for the seismic retrofit design of two 450 ft long wharf structures that required strengthening to comply with the MOTEWS seismic performance standards for marine...

Services: Structural Rehabilitation
Markets: Oil & Gas, Ports & Terminals
Keywords: Marine Engineering, MOTEWS audit, Performance-based, Pier/Wharf/Boat Ramp, Seismic Engineering and Retrofit, Structural Strengthening, Terminal
Procter & Gamble Company, Far East Headquarters

Kobe, Japan

Project Contacts: James Parker

The 500,000 sq ft, thirty-one-story building with an attached twelve-story technical research center houses Procter & Gamble’s (P&G’s) headquarters and research facilities for its Far East...

Services: Structural Investigation

Markets: Office

Keywords: Condition Assessment, Failure Investigation, High Rise, Laboratory, Seismic Engineering and Retrofit, Signature Project

Sutro Tower

San Francisco, CA

Project Contacts: Ronald Hamburger

Built in 1972, the 977 ft Sutro Tower is the tallest tower in California and serves as a base for radio, television, and microwave transmission throughout the Bay Area. Since 2002, SGH has...

Services: Structural Design

Markets: Science & Defense

Keywords: Civil, Fire, Laboratory Testing and Analysis, Nonlinear, Seismic Engineering and Retrofit

Be Like Brit Orphanage

Haiti

Project Contacts: John Thomsen

When a 7.0-magnitude earthquake struck Haiti in January 2010, hundreds of thousands of people were killed and approximately 1.5 million people were initially displaced from their homes. To serve...

Services: Structural Design

Markets: Health Care
1101 Second Avenue
Seattle, WA

Project Contacts: Ronald Hamburger

The concrete building at 1101 Second Avenue, originally developed in 1967 as the headquarters for Washington Mutual Savings Bank, was designed by the northwest modernist architect, Paul Thiry. ...  

Services: Structural Rehabilitation
Markets: Office

Keywords: Concrete, Concrete-Carbon Fiber Reinforced, Concrete-Post-tensioned, Concrete-Precoat, Concrete-Reinforced, High Rise, Seismic Engineering and Retrofit

Idaho National Laboratory (INL) Analytical Laboratory (ALAB)
Idaho Falls, ID

Project Contacts: Said Bolourchi, Michael Mudlock

The one-story Analytical Laboratory building is located on the Materials and Fuels Complex at Idaho National Laboratory (INL). The building is a concrete and masonry structure with a high bay...

Services: Structural Rehabilitation
Markets: Nuclear

Keywords: Fire, Fire Protection, Roofing, Seismic Analyses, Seismic Engineering and Retrofit, Structural Strengthening

Procter & Gamble Company, Worldwide Seismic Mitigation Program

Project Contacts: James Parker

Following the 1994 Northridge and 1995 Kobe earthquakes, Procter & Gamble Company (P&G) initiated a program for seismic risk mitigation of its owned and leased facilities
China Basin Landing, 185 Berry Street

San Francisco, CA

Project Contacts: Ronald Mayes, John Sumnicht

The client wanted to expand their three-story 300,000 sq ft office building at 185 Berry Street. The existing structure could only accommodate a one-story, 50,000 sq ft vertical addition without...

Services: Structural Design
Markets: Office
Keywords: Addition, Award Winning, Base Isolation, Seismic Engineering and Retrofit, Seismic Isolation

Omni Hotel

San Francisco, CA

Project Contacts: Carolyn Searls

The owner planned to rehabilitate the 1927 office building and adapt it for use as a luxury hotel. The brick walls of the fifteen-story building had large vertical cracks at the corners and...

Services: Building Enclosure Rehabilitation, Structural Rehabilitation
Markets: Hospitality
Keywords: Adaptive Reuse, Cast Stone, Condition Assessment, Construction Administration, Masonry, Masonry-Brick, Preservation Technology, Seismic Engineering and Retrofit
Bill and Hillary Clinton National Airport

Little Rock, AR

Project Contacts: Pedro Sifre

Built in 1969, the twelve main terminal gates at Little Rock National Airport were handling nearly three times the intended number of flights for the original design. Given the amount of growth,...

Services: Structural Design
Markets: Airport
Keywords: Airport, Concrete, Ground (Soil) Improvement, Long-Span Structure, Seismic Engineering and Retrofit, Wood

R.O. Pickard Environmental Centre Expansion (ROPEC)

Ottawa, ON

For the R.O. Pickard Environmental Centre digester expansion program, the owner’s engineer envisioned two structurally-identical, modified, egg-shaped digesters founded on drilled piers extending...

Services: Structural Design
Markets: Water/Wastewater
Keywords: Concrete, Concrete-Post-tensioned, Concrete-Prestressed, Concrete-Reinforced, Finite Element Analysis, International, Pile, Seismic Engineering and Retrofit, Tank

Idaho National Laboratory, Fuel Manufacturing Facility (FMF)

Idaho Falls, ID

Project Contacts: Said Bolourchi

Changes to Department of Energy (DOE) codes required Idaho National Laboratory (INL) to reevaluate and retrofit its Fuel Manufacturing Facility (FMF) at the Materials and Fuels Complex. The FMF...

Services: Structural Rehabilitation
Markets: Nuclear
Keywords: Condition Assessment, Laboratory, Masonry-CMU
Federal Office Building

Andover, MA

Project Contacts: Matthew Johnson

Prompted by increased electronic record keeping, the Andover-based building was selected for the U.S. General Services Administration (GSA) Design Excellence Program, which called for a model...

Services: Structural Design

Markets: Government

Keywords: Award Winning, Green / Sustainable Design, LEED Projects, Renovation, Retrofit/Upgrade, Seismic Engineering and Retrofit, Structural Strengthening

Georgetown University, Regents Hall Science Center

Washington, DC

Project Contacts: Michael Louis, Pedro Sifre, Niklas Vigener

Georgetown University desired a new science center to maximize collaboration and interdisciplinary research among the biology, chemistry, and physics departments in order to facilitate scientific...

Services: Building Enclosure Design, Structural Design

Markets: Education - College & Prep

Keywords: Classroom, Green Roofs, Laboratory, LEED Projects, Seismic Engineering and Retrofit, Vibration / Fatigue Analysis

23 Cornelia Street

New York, NY

Project Contacts: Kevin Poulin, Milan Vatovec

Originally a horse stable, 23 Cornelia Street is a two-story unreinforced masonry structure built c. 1870. The current owner purchased the Greenwich Village property in 2007 and
hired Solomonoff...

**Services:** Structural Rehabilitation

**Markets:** Residential - Single Family

**Keywords:** Adaptive Reuse, Addition, Foundation, Geotechnical, Masonry-Brick, Masonry-Unreinforced, Retaining Wall, Seismic Engineering and Retrofit, Underpinning