Andrew N. Scott, SE

Principal

Education

M.S., Structural Engineering,
University of California, San Diego, 1998

B.S., Magna Cum Laude, Structural Engineering,
University of California, San Diego, 1997

Professional Registration

CA Structural Engineer, License No. 4809

CA Civil Engineer, License No. 61655

UT Structural Engineer, License No. 7272327-2203

Qualifications

Andrew Scott joined Degenkolb in 1999 after receiving his Master of Science degree in Structural Engineering from the University of California, San Diego. Andrew's portfolio represents an interest in complex and challenging projects spanning the broad range of Degenkolb market sectors. He has particular interests in seismic strengthening and renovation of existing buildings, as well as excavation shoring, construction means and methods engineering, and construction phase project support. He has additional experience in new design, complex analysis, and peer review of concrete, steel, timber, masonry structural systems and excavation shoring systems. Andrew was also a member of the Degenkolb post-earthquake reconnaissance team that surveyed L'Aquila, Italy in April 2009.

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Professional Affiliation

Earthquake Engineering Research Institute

Structural Engineers Association of Northern California

Past Chair, Board of Directors, LEAP...Imagination in Learning

BICB - Past Chair

Construction Means & Method Engineering

181 Fremont, Construction Means & Methods Engineering
San Francsico, California
New 56 story high-rise steel structure over five basement levels. The structural steel erection requires multiple construction engineering tasks, including modifications to the excavation shoring, temporary support/shoring of members, assessment of the in-erection structure to resist wind and seismic loading, provisions for differential shortening/settlement and sloping elements, and general stability and bracing associated with erecting the building within allowable tolerances. The below grade structure is a combination of structural steel and reinforced concrete founded on large diameter deep foundations. The project is immediately adjacent to the Transbay Transit Center construction project, which extends to a similar depth below grade.

Nordstrom, 1200 Broadway Plaza, Construction Means & Methods Engineering
Walnut Creek, California
Provided construction means and methods engineering support on the Nordstrom Walnut Creek project. The project is a seismic strengthening and remodel of an existing store, originally constructed for Bullock's in 1972.

140 New Montgomery, Renovation Construction Means & Methods Engineering
San Francisco, California
Evaluated the existing roof framing to support a roof-mounted crane. Assessed the existing plaza and floor framing with respect to proposed demolition equipment and logistics to facilitate use of the most efficient construction means. Performed a Peer Review of the structural renovation drawings with respect to construction means and methods. Reviewed the details of construction and advice regarding potential construction challenges and options for alternative approaches to reduce means and methods complexity.

690 Market, Ritz-Carlton, Shoring and Means & Methods Engineering
San Francisco, California
Provided construction means and methods engineering services related to partial demolition and adaptive reuse of this historic San Francisco structure. Prepared Construction Documents for temporary shoring and sequencing to remove all but the facade of this 12 and 16 story structure, excavate a new basement level and mat foundation, and build a modern steel frame building behind the existing facade. This challenging project required close coordination with the design team for the new structure as well as the construction team, and required safe support of both gravity and lateral loads at all stages of demolition and new construction. The project is a 2006 SEAOC award winner.

800 Market Street, Means & Methods Engineering
San Francisco, California
Provided construction means and methods engineering for temporary shoring and demolition work during the renovation and seismic strengthening of the existing building.

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Presidio, Public Health Service Hospital (PHSH), Adaptive Re-use, Construction Means & Methods
San Francisco, California
Provided construction means and methods engineering services for the adaptive re-use of the PHSH in the Presidio.

390 Fremont, Grande Vitesse Systems, Consultation Adjacent Construction
San Francisco, California
Provided structural engineering consultation related to the adjacent construction project at 340 Fremont Street in San Francisco, California, as well as the future project at 390 Fremont.

St. Michael's Parish, Renovation with Seismic Strengthening
Livermore, California
Performed seismic strengthening design and construction administration for the retrofit of the Parish's large reinforced concrete church, as well as two smaller classroom buildings.

University of California (UC), Berkeley, Berkeley Art Museum & Pacific Film Archive, Construction Means & Methods Engineering
Berkeley, California
Provided construction means and methods engineering for the renovation of the University of California Press Building and the demolition of the Statewide Office Building parking structure, both located on the block bounded by Oxford, Addison, and Center Streets. Use elements of the new structure and installed in an appropriate sequence to facilitate the construction means and methods. Work with BIM (Revit) to maximize our collaboration with the design team and will make our Revit model available for coordination.

Forensics

County of Napa, Hall of Justice, Structural Engineering Services
Napa, California
Third-party revision of structural repair/retrofit scope of existing building damaged by the West Napa Fault earthquake on August 24, 2014.

Specialized

Berkeley YMCA, Complete Seismic Upgrade
Berkeley, California
Degenkolb Engineers has been providing consulting services to the Berkeley YMCA for the County of Alameda since the 1970s. The YMCA consists of a historic turn of the century unreinforced masonry building and a 1959 precast concrete structure. In the late 1980s, the YMCA embarked on a large-scale improvement project for the complex that included seismic retrofit and construction of a new building. Degenkolb provided the consulting services for the seismic retrofit project, completed in 2001, and for various tenant improvement projects in the older buildings.

IMAX, Design Renovation with Seismic Strengthening
Santa Monica, California
Provided structural engineering design services for the IMAX Office. Structural work involves the addition of 60,000 square feet of new structural steel bracing and new concrete block walls surrounding 40-foot high screening theaters. The building contains executive offices, three screening theaters, several post-production facilities, and film storage, and manufacturing and distribution activities.

Piilani Village, Roof Revision

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Kihei, Maui, Hawaii
Provided roof framing plan revisions, roof framing details, Glu-laminated beam shop drawings, and canopy revisions.

Walt Disney Museum, Seismic Strengthening
San Francisco, California
Designed strengthening schemes for four historic buildings located in the Presidio National Park land. The four buildings will be used as a museum to Walt Disney and supporting functions for the museum.

Terrabay Condominiums
South San Francisco, California
Structural design of a 50-foot tall permanent retaining wall to facilitate a flat building foundation on this steep hillside site.

3880 W 1820 South, Beehive Clothing, Seismic Evaluation
Salt Lake City, Utah
Seismic evaluation and strengthening of an existing 300,000 square foot manufacturing facility. Including both structural and non-Structural elements using ASCE 31 and 41. The performance objective for the project was to return to operation shortly after a major seismic event. Worked closely with the client to understand the overall vision of "operational" performance for the facility, including utility service, outside infrastructure, and workforce issues.

40 Gold Street, Structural Evaluation
San Francisco, California
Prepared a structural evaluation and designed the seismic strengthening and structural renovations of a four-story concrete building that was originally constructed around 1910. The scheme brought the building into compliance with the City of San Francisco requirements for existing buildings.

460 Bryant, Seismic Upgrade & Adaptive Reuse
San Francisco, California
Designed complete renovation of two buildings including seismic strengthening, new core elements, façade refurbishment/alteration, new MEP/FLS, and a new two-story vertical addition. Also included a change of use from warehouse occupancy to commercial office with the option for partial residential occupancy in the vertical addition. The existing buildings are approximately 70,000 square feet combined and the vertical addition is approximately 16,000 square feet.

Herd Morality Sculpture, Equipment Anchorage
San Francisco, California
Provided complete structural design services for the support of five bronze sculptures conceptualized by artist Brian Goggin. The sculptures are cantilevered over the entry to an office building. The supports were designed as integral frames hidden within the casting.

455 9th Street, Seismic Strengthening
San Francisco, California
Reviewed support and anchorage of roof equipment as prepared by the HVAC design-build contractor and provide recommendations on layout and detailing. Reviewed new roof penetration locations and details for the roof access hatch and HVAC ductwork. Reviewed details prepared by the architect and/or contractor for the new steel staircase at the Southwest corner of the building serving the ground, mezzanine, and second floors.

Second Street, Shoring
San Francisco, California
Designed the construction bulkheads and shoring.

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Prada Building, Shoring
San Francisco, California
Design temporary excavation shoring for the new structure located at the southeast corner of Post Street and Grant Street in San Francisco, California.

420 Montgomery Floor Infill at Escalator
San Francisco, California
Assisted with the removal of the existing escalator serving the Mezzanine floor. Prepared construction documents and construction support. Designed new steel floor framing, connections, and slab system.

Nordstrom Corte Madera, Structural Consultation
Corte Madera, California
Provided conceptual design, construction documents and construction administration services for the renovations and tenant improvements surrounding the replacement of a portion of the Second Floor, constructed of concrete fill on metal deck supported on structural steel beams and columns over concrete slabs and pilecaps supported on deep foundations.

55 West Fifth II Townhouse Plaza & Gardens, Probable Maximum Loss (PML) Seismic Risk Assessment
San Mateo, California
In Phase 1, performed document review, site visit, PML Assessment, and provide a brief summation of findings in a report. Phase 2 included a Peer Review.

180 Grand Garage, 260 23rd Street, Voluntary Seismic Upgrade
San Francisco, California
180 Grand Garage is an exposed concrete parking garage. Performed structural assessment and developed construction documents for mitigation measures.

Department of Veteran Affairs (VA) San Francisco, Building 203, Design Renovations with Seismic Strengthening
San Francisco, California
Seismic retrofit of the existing 336,000 square foot main medical center building to an Immediate Occupancy performance level. The building is four stories plus a basement and sub-basement. The existing concrete shear walls were strengthened using shotcrete to minimize impact to the interior functions of the building. One option of our original study included the seismic upgrade of the building using base isolation. The isolation plan was investigated at the sub-basement level requiring shoring and construction below a portion of the building that was slab on grade at the basement level. The project was completed in 2008.

VA San Juan, Seismic Corrections
San Juan, Puerto Rico
Designed the seismic upgrade of this existing 1960's acute care hospital. This 600,000 square foot, steel moment frame building will house nursing units, diagnostic and treatment areas, administrative and research facilities, and a cafeteria. The building will also remain occupied during. This project cost is $100 million.

VA, Palo Alto, Building 2 & 4, Renovation with Seismic Strengthening
Palo Alto, California
Provided seismic evaluation and strengthening schemes for two reinforced concrete medical centers, both constructed in the 1950's. One medical center is 73,000 square feet, the other is 75,000 square feet.

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VA, Medical Center, San Juan, Building 1, Seismic Corrections
San Juan, Puerto Rico
Performed seismic corrections of Building 1. The project proceeded in two main phases. The first phase removed the existing Tower portion of Building 1, to mitigate the seismic hazard. The second phase addressed the balance of seismic strengthening required in the Podium to meet VA performance objectives, including both structural and non-structural systems. Building 1 is composed of two main elements, the Tower and the Podium. The Podium is a two-story building over a complete basement with interior lightwells on the Second Floor. The Tower extends an additional seven stories above the Podium with a Roof level above the Ninth Floor.

Yuzhno-Sakhalinsk,Rus-3 Story Hotel Bldg
Yuzhno-Sakhalinsk, Russia
Performed a seismic evaluation of this three-story new hotel building.

United States Department of Energy, Support-Office of River Protection, Peer Review
Hanford, Washington
Acted as the peer reviewer for the Hanford Waste Treatment Plant, which is a $14 billion facility. The duration of this project was nine years.

540 9th Street, Miscellaneous Renovations
San Francisco, California
Provided structural details for a new parapet around the rear portion of the building and removed portions of the wall at the center of the building in the first floor where various building additions join. Designed new plywood sheathing along that line so the new openings would not reduce the seismic resistance of the building.

Present Center, Building B07, Seismic Strengthening
Los Gatos, California
Added four windows to the newly constructed shearwall (30 foot wall), which required modification of that shearwall as well as the wall panels to either side (the 6 foot panel to the west and the 8 foot panel to the east). Additional holdowns were required, with corresponding 4x holdown posts, as well as additional sheathing and nailing on the two panels to either side. Straps were also required at the header elevations depending on the layout of the windows. Replacing the wood framing with concrete along the south wall required shoring the wall above, removing the existing framing, adhesive doweling into the top of the existing concrete, setting a new sole plate, and shooting the new concrete.

475 9th Street, Renovation
San Francisco,
Provided structural engineering services including enhancing roof and floor to wall anchorage, infills with reinforced concrete for improved seismic performance, the relocation of some columns, and a reframing of the second floor loft.

995 Market Street, Structural Seismic Upgrade
San Francisco, California
Performed a PML analysis and seismic evaluation, as well a conceptual strengthening for the David Hewes building, a multi-story steel frame building.

PG&E, Santa Rosa, Service Center
Santa Rosa, California
Conducted a detailed seismic evaluation and upgrade

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PG&E, Colma Service Center, Renovation with Seismic Strengthening
Colma, California
Our proposal was based on the assumption that linear elastic analyses would be used and that the strengthening would be somewhat in line with the conceptual study on these buildings done by another engineering firm for PG&E. A number of different strengthening concepts were investigated using linear elastic procedures with the spectra provided by PG&E. All of the resulting solutions were found to be excessive and unreasonable for these buildings. We therefore recommended utilizing nonlinear procedures to reduce the costly and intrusive upgrade scope while still proving conformance with the performance criteria. The philosophy is that by performing additional effort during the analysis and design phase, the overall construction cost of the project could be significantly lowered, while still meeting performance objectives.

DiPietro Todd Salon, Tenant Improvements
Walnut Creek,
Designed the tenant improvements to a two-story, timber framed structure.

Bryant Square Condo, Design
San Francisco, California
Designed a new, four-story condominium over two-story parking garage. Simultaneously, designed the seismic strengthening of the adjacent masonry building that is being renovated to provide additional condominiums.

Cordeiro Residence, Proposed Elevator Addition Renovation
Napa, California
Structural design of a new elevator shaft, as well as construction means and methods engineering to construct the shaft and elevator pit.

Sacramento International Airport Baggage Handling System, Structural Connection Detail Validation
Sacramento, California
Provided anchorage details and calculations for a baggage system installation in the new terminal.

Atlas Castings and Technologies Explosion Structural Observation and Repair
Tacoma,
Evaluated site damaged by an explosion to determine damage to buildings and recommend structural repairs.

SW Commerce Center, Buildings A-D, Evaluation of Distressed Structures
Reno, Nevada
Conducted a structural investigation of what was believed to be six tilt-up concrete buildings. It was understood that the roof blew off one of these buildings and another one of the buildings reportedly has badly split framing members from roof nailing.

Deseret Trust Building, 79 South Main Street, Renovation & Seismic Strengthening
Salt Lake City, Utah
Seismic evaluation and strengthening of this classic downtown Salt Lake City structure. Schemes involved preservation of the historic fabric and updating the shell lease space for adaptive re-use. Advanced analysis was used, in accordance with ASCE 31 and 41, to minimize the work necessary to achieve the desired performance objective. The structural costs, which were initially cost-prohibitive based on another firm's scheme, were sufficiently reduced to allow the project to move forward. Project saved $9 million on structural scope of retrofit from $10 million to $1 million.

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Stanford Court Hotel, Tenant Improvements
San Francisco,
Designed interior and existing tenant improvements that include a wheelchair lift and chandelier bracing. The project also included an updated seismic evaluation.

1043 Electric Ave, Insurance Claim
Vienna, Virginia
Peer Review of documents available to-date, including report prepared by underwriter's Structural Engineer, Thornton Tomasetti. Attend meeting in-person in Virginia.

942 Market Street, Peer Review, Alternate Scheme
San Francisco, California
The existing building is L shaped with frontages on both Market Street and Mason Street. Built in 1907-1908 with seven stories and a basement and is of reinforced concrete construction with some interior structural steel columns and girders. The building is used as office and commercial space. Designed a renovation that added a penthouse and convert the majority of the building to a residential occupancy retaining the commercial occupancy on the Ground Floor with possible office occupancy on two floors.

New de Young Museum Peer Review
San Francisco, California
Peer review of the structural and seismic design of the new de Young Museum. The two building complex consists of an extremely complex braced steel frame building placed on a base isolated foundation and a leaning, twisting reinforced concrete tower. The work included review of the design criteria, system selection and configuration, analysis procedures, and the various construction documents. A series of review reports was prepared and recommendations were implemented in the design of the facility.

Arpeggio of Berkeley, Peer Review
Berkeley, California
Peer review of shoring and underpinning with a focus on protection of existing adjacent structures.

Strata, Market Street & 10th Avenue, Structural Peer Review
San Diego, California
Provided peer review and litigation support related to the excavation support for this new building adjacent to an existing hotel.

Metropolis Development, Peer Review
Los Angeles, California
Peer Review of a 34-story high rise building to comply with the City of LA requirements for alternative design procedures.

San Jose Civic Center, Peer Review
San Jose, California
Peer reviewed the San Jose Civic Center. The building program included an 18-story, 400,000 square foot office building, a 13,000 square foot Rotunda dome, 93,000 square feet of council space and 160,000 square feet of parking. The structural systems include concrete and steel framing with steel moment resisting frames, steel eccentrically braced frames and concrete shear walls to resist seismic loads.

555 Market Street, Peer Review
San Francisco, California
Provided consulting services for the peer review committee that was selected by the City of San Francisco Department of Building Inspection (DBI) for the seismic upgrade of 555 Market Street in San Francisco.

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140 New Montgomery, Structural Concept Charette
San Francisco, California
Designed the seismic strengthening of a 26-story historic office structure that will be converted to residential use.

Mission Bay Block 26, Peer Review
San Francisco, California
Peer review two five-story buildings in the Mission Bay Area. The total square footage of each structure is approximately 100,000 square feet. The structural system includes a steel moment frame and BRBF.

Sunrise of Torrance, 25535 Hawthorne Boulevard, Peer Review
Torrance, California
Peer review the design of a four-story assisted living facility.

55 9th Street, Peer Review
San Francisco, California
Completed a review of the Progress Print set for the new State Compensation Insurance Fund building.

Church of Jesus Christ of Latter-day Saints, Granite Mountain Vault, Seismic Evaluation
Alta, Utah
Seismically evaluated the Granite Mountain Vault complex. The evaluation included structural, nonstructural, geological and geotechnical considerations. The complex is a series of lined tunnels excavated into the granite formation on the north side of a canyon. The complex contains large quantities of important information on a variety of storage media. There are corrosion issues at isolated locations on the tunnel lining.

Church of Jesus Christ of Latter-day Saints, Oakland Temple, Seismic Evaluation
Oakland, California
Performed a detailed seismic evaluation using advanced analysis techniques and performance based earthquake engineering to minimize the required seismic strengthening.

Church of Jesus Christ of Latter-day Saints, Manufacturing Facility
Salt Lake City, Utah
Seismic evaluation and recommended strengthening of an existing manufacturing facility, including both Structural and non-structural elements using ASCE 31 and 41. The performance objective for the project is to return to operation shortly after a major seismic event. Worked closely with the client to understand the overall vision of "operational" performance for the facility, including utility service, outside infrastructure, and workforce issues.

Church of Jesus Christ of Latter-day Saints, Temple
Jordan River, Utah
Performed a detailed seismic evaluation using advanced analysis techniques and performance based earthquake engineering to minimize the required seismic strengthening.

Church of Jesus Christ of Latter-day Saints, Bishops Central Storagehouse, New Design
Salt Lake City, Utah
New design of the 500,000 square foot Storehouse with a focus on seismic design. Facility includes bulk storage bays, racked storage bays, refrigeration/freezer bays, and administrative building.

Church of Jesus Christ of Latter-day Saints, Bern Temple, Seismic

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Evaluation, Phase 1
Bern, Switzerland
Performed a seismic evaluation of the structural and non-structural systems to assess the seismic risk of the building.

Church of Jesus Christ of Latter-day Saints, Ogden Temple & Tabernacle Renovation
Salt Lake City, Utah
Designed modifications to three buildings at the project site, including the Temple, the Tabernacle, and the parking garage.

Church of Jesus Christ of Latter-day Saints, Print & Distribution, Seismic Evaluation
Salt Lake City, Utah
Seismic evaluation and upgrade of the printing and distribution building a 600,000 square foot large two story building.

St. Patrick's Seminary, Feasibility Study
Menlo Park, California
Served as lead engineer for the Phase III construction, consisting of the Chapel and A wing buildings. This unique project consisted of seismically strengthening complicated historic unreinforced masonry buildings. Work consisted of adding a supplemental steel diaphragm in the Chapel attic, a series of new multistory shotcrete shearwalls, and anchorage connections throughout the buildings.

First Church of Christ Scientist, Restoration
Berkeley, California
Prepared a conceptual seismic strengthening report. The evaluation and strengthening addressed the various buildings on the site, including the Auditorium, Sunday school, and other associated structures.

First Church of Christ, Scientist, Renovations & Seismic Strengthening
Berkeley, California
Seismic evaluation of this famous Bernard Maybeck structure in accordance with the State Historic Building Code and recommended seismic strengthening. The goal of the seismic strengthening scheme was to improve the Life-Safety Performance of the building in a major earthquake. Also implemented scheme through phased design and construction administration services for seismic strengthening.

First Church of Christ Scientist, 1700 Franklin Street
San Francisco, California
Feasibility study of seismic strengthening concepts of an unreinforced masonry building to comply with the City's UMB Ordinance.

Diocese of San Jose, 160 Buildings, Seismic Evaluations
San Jose, California
Participated in seismic evaluations of various church buildings per the FEMA 178 seismic evaluation guidelines. Typical buildings included reinforced masonry, light timber construction, and heavy timber and post structures. Prepared retrofit structural calculations and construction documents for various deficient structures (masonry and timber). The retrofits included the design for new timber shear panels, new structural anchorages to the foundations, and strengthening of existing member connections for seismic force transfer.

Bay Division Pipeline Upgrade Project, Historical Resources Mitigation Measure CR-2a
Reviewed EIR documents and assisted in the development of the vibration monitoring plan.

Old Tavern and Presbyterian Church Adjacent to Sutter Medical Center, Pre-Condition Survey

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Sacramento, California
Structural protection of two existing buildings due to construction at the adjacent medical center.

Historic Bank Building, Seismic Evaluation
Salt Lake City, Utah
Seismic evaluation and strengthening of this classic downtown Salt Lake City structure. Advanced analysis was used, in accordance with ASCE 31 and 41, to minimize the work necessary to achieve the desired performance objective. The structural costs, which were initially cost-prohibitive, were sufficiently reduced to allow the project to move forward.

Beresford Hotel, 635 Sutter Street, Seismic Evaluation
San Francisco, California
Performed a seismic evaluation and prepared construction documents to bring this unreinforced masonry building, located in San Francisco's historic hotel district, into compliance with the City's Unreinforced Masonry (URM) Ordinance.

Tanforan Park Shop Center v.Tutor Saliba
San Bruno, California
Provided consultation and expert testimony as required in the Tanforan Park Shopping Center.

153 Kearny Street, Litigation Support
San Francisco, California
Peer reviewed structural seismic strengthening evaluation to assess whether the proposed work is prudent and necessary.

McNear Beach Pier, Litigation Support
San Francisco, California
Litigation support for damage that was caused on McNear Beach Pier.

Higher Education

Stanford University, HR Anatomy Rotunda, Renovation with Seismic Strengthening
Stanford, California
Reviewed previous 1995 studies of the Rotunda with hopes of cost saving ideas for its seismic rehabilitation; developed a scheme to seismically strengthen the one-story brick wings to support a new second level; and recommended a conceptual structural system for the new construction.

UC Berkeley, Davis Hall North, Replacement Building Shoring
Berkeley, California
Provided full service structural engineering services related to the demolition of the existing Davis Hall North and excavation shoring for the new Davis Hall North Replacement. Prepared construction documents for temporary shoring bulkheads including both soldier beam and tieback systems and soil nail systems, which required close coordination with existing construction, including the building to be demolished, the existing adjacent buildings to remain, existing campus and City utilities, as well as the new building. Provided full service support to the project during construction.

UC Merced Sierra Terraces, Structural Peer Review
Merced, California
Peer reviewed the structural design and construction documents of a residential complex for the UC Merced campus.

Carnegie Mellon University, Moffet Field, Renovation
Pittsburgh, Pennsylvania
Seismic strengthening and adoptive re-use of an existing historic structure for use as a branch campus for the university of this existing building.

Foothill Community College, Lower Campus Complex, New Design
Los Altos Hills, California

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Construction Administration Services for an eight-building, 98,000 square foot complex including two buildings that step three stories down a hillside. For these two buildings, stepped foundations reach down into the bedrock with all unbalanced soils and earthquake loading incorporated into the concrete shear wall design. Sloping, landscaped rooftops allow these buildings to blend into the hillside and provided an attractive extension to the campus. A Black Box Theater, attached to the Student Services Building, uses sloping concrete shear walls on four sides to create a form which maximizes the interior space and is also reminiscent of the surrounding buildings on campus. The new structures include a Life Sciences Building, Student Services Building, Classroom Building, a Central Plant, Greenhouse, Stable, Lath House, and landscape construction Lab. The construction cost is $45.5 million.

Brigham Young University, Indoor Practice Facility, Seismic Evaluation
Provo, Utah
Performed an evaluation on a sports facility to find out if the pre-fab steel building will comply with new regulations. Additionally, develop a nonlinear model and perform a complete Performance Based Engineering analysis.
Perform an evalaaaaaauation on a sports facility to find out if the pre-fab steel building will comply with new regulations.

San Francisco State University (SFSU), African American Cafe, Renovation without Seismic Strengthening
San Francisco, California
Separated and re-packaged our structural calculations for plan check submittal response to plan check review by SFSU Campus Planning of the separated project. Also, additional mobilization and tracking efforts resulted in more comments than if the two projects were reviewed together as one. Provided support during bid phase for the second project.

Healthcare

Stanford Hospital & Clinics, Lucile Packard Children's Hospital, Excavation Shoring
Stanford, California
Provided a multi-phase approach to complex shoring design project. The first phase was a schematic design study to understand the project constraints, establish the design criteria, and identify the potential shoring systems. The second phase proceeded with development of construction documents in close collaboration with the design assist contractor. The third phase supported the construction project with construction administration services during construction.

Highland Hospital, Temporary Earth Retaining Systems
Oakland, California
Provided structural engineering services related to development of an excavation shoring design-build bridging specification for the temporary shoring at the SAT Building. The excavation for the SAT Building will be a combination of temporary and permanent retaining walls, including the east wall of the loading area, the east wall of the SAT Building, and the north and east walls of the V Building. The temporary shoring includes the north wall of the loading area and truck drive, the north wall of the SAT Building, and the south end of Gridline J south of the V Building.
Highland Hospital, Acute Tower Replacement, New Design
Oakland, California
Designing a nine-story, 160-bed acute care hospital and a three-story (approximately 71,000 square foot) hospital office,

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administration, and services building. Also, an OSHPD reviewed link between structures. Project is being delivered design/build. Construction began in 2011 on the acute care tower and be completed in 2016. The hospital tower is targeting Leed Silver.

Highland Hospital, Permanent Earth Retaining Systems
Oakland, California
Re-analyzed the top-of-wall condition to validate the vertical extension. Re-designed and detailed the reinforcing, including the dowels to the existing wall and the reinforcing in the vertical extension.

Highland Hospital, New Design
County of Alameda, California
A member of the design team for the rebuild of Highland Hospital, including development of structural drawings and calculations to comply with the applicable Codes of the County of Alameda.

Kaiser Permanente Los Angeles Medical Center, Replacement Project
Los Angeles, California
Designed a replacement seven-story, 792,000 square-foot hospital. The urban hospital contains 376 beds with shell space for an additional 80. The project also included a 100,000 square-foot separate service building containing materials management, central plant with electrical, chiller, and boiler rooms above the loading dock, and a Los Angeles Department of Public Works electric substation. A two-level underground tunnel connects the service building and the main hospital.

Kaiser Permanente Walnut Creek, Central Plant Exterior Modernization
Walnut Creek, California
Designed the exterior modernization of the central plant, which includes a new 30-foot tall screen wall around the building perimeter.

Kaiser Permanente Hayward Medical Center, Seismic Evaluation
Hayward, California
Detailed seismic evaluation of eleven acute care buildings for SB1953 compliance.

Dignity Health, Northridge Hospital, SB1953
Northridge, California
Prepared SB 1953 (FEMA 178) non-structural evaluations.