

GERVASIO & ASSOC., INC.

CONSULTING ENGINEERS

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CURRICULUM VITAE:

Jack Gordon, P.E.



EDUCATION:

Bachelor of Science, Civil Engineering
University of Arizona, 1996, Magna Cum Laude

REGISTRATIONS:

Arizona - Structural Engineer #35973

MEMBERSHIP:

Tau Beta Pi, Engineering Honor Society - Lifetime Member
Golden Key National Honor Society - Lifetime Member

AWARDS:

2004 "Excellence in Structural Engineering Award", Structural Engineers' Association of Arizona for St. Thomas Aquinas Catholic Community Church and School (A.V. Schwan & Associates, Inc.)

EXPERIENCE:

2005 - Present

Gervasio & Assoc., Inc. Forensic Structural Engineer. Assist in the preparation of comprehensive investigations and reports on the cause of Structural failures, construction disputes and engineering disputes. Design repairs and rehabilitations associated with the reports and other problems. Consults with design engineers in the firm on projects for which he has special experience.

Projects Mr. Gordon has been involved with include: Rancho Sahuarita Train Pool, Sahuarita, AZ - pool rehabilitation; Thunderbird High School, Phoenix, AZ - hail damage & moisture intrusion; Esplanade, Phoenix, AZ - water intrusion damages in underground post-tensioned concrete parking structure; One Arizona Center, Phoenix, AZ - water intrusion in underground concrete parking structure; Gold Dust Center, Scottsdale, AZ - corrosion of metal deck in steel roof structure; Maricopa County Juvenile Detention Center, Phoenix, AZ - construction delay claim; Meinel Optical Sciences Building, Tucson, AZ - alleged construction deficiencies.

2001 - 2005

A.V. Schwan & Associates, Inc., Phoenix, Arizona. Structural Engineer. Engineering duties included structural design of industrial/commercial buildings; review of structural shop drawings; coordination of design with Architect, Contractor & other engineering disciplines involved; answer RFI's & provide field repairs to contractor errors; special structural inspections. Types of construction included wood; concrete tilt panel, masonry; metal building foundations; steel, including custom trusses; and cast-in-place concrete.

EXPERIENCE: (Cont.)

- 1999 - 2001 TOR Engineering Consulting Engineers, Phoenix, Arizona. Structural Engineer. Tasks included the structural design of residential and commercial buildings coordination of design with Architect, Contractor and other engineering disciplines involved; answer RFI's & provide field repairs to contractor errors; special structural inspections. Act as Job Captain overseeing Junior Engineers. Types of construction included wood, masonry, steel and cast-in-place concrete. Non-traditional materials included Rammes earth, adobe, Insulated Concrete Foam (ICF) and hay bale.
- 1996 - 1999 A.V. Schwan & Associates, Phoenix, Arizona. Structural Designer. structural design of industrial/commercial buildings including: specialty cold-storage warehouse/distribution centers for Bashas', Del Monte Foods Produce, and Zeb Pearce Coors; warehouses; movie theatres for Harkins Theatres in various locations and jurisdictions school designs for Lake Havasu City School District, Tolleson School District & Avondale; various projects for the Diocese of Phoenix including sanctuaries, social halls & office buildings (St. Bernadette's, Prince of Peace, St. Thomas Aquinas); various Bashas' and AJ's Fine Foods grocery store locations around the state; custom residences; auto dealerships; and various facilities for Shamrock Foods.
- 1990 - 1996 Returned to school as "New Traditional Student".
- 1989 - 1990 Kimley-Horn and Associates, Phoenix, Arizona. Junior Engineering Technician. Produced and revised plans from Engineer's sketches for the Arizona Department of Transportation's Freeway Management System (FMS) and the Grand Avenue realignment.
- 1987 - 1989 Mapping Automation, Phoenix, Arizona. Senior Computer Graphic Technician. A key member in producing the Tempe Mapping and Reporting System (TMARS) which included land base maps of Tempe, water distribution system and sanitary/storm sewer with associated data base. Also assisted in the quality control of the TMARS graphic and data base products.
- 1984 - 1987 Paramount Designs, Phoenix, Arizona. Cad Operator III. Produced land base maps for various public service companies.

EXPERIENCE: (Cont.)

Recent project experience Mr. Gordon has been involved in include:

- Rancho Sahuarita Train Pool Rehabilitation, Sahuarita. A ±1,000 sq. ft. wading pool with train station theme water features had experienced significant movement of the structural concrete slab-on-ground due to soil movement activated by water leaks in the wading pool and adjacent swimming pools. Our assignment was to design a structural concrete overlay converting the wading pool into a splash pad incorporating the existing water play features.
- Thunderbird High School, Phoenix. Numerous original metal buildings on the campus had been damaged by a significant hailstorm. Also, the metal buildings been subjected to repeated flooding since constructed circa 1973 resulting in corrosion of the structural steel components at the building's base. Our assignment was to determine perform a structural roof load study to determine if the buildings could be re-roofed, determine the extent of the corrosion, and to provide recommendations for repairing the corrosion damages.
- Esplanade, Phoenix. Investigation of water intrusion damages to a 3-story underground post-tensioned concrete parking structure, approximately 970,000 sq. ft. total. The parking structure was built in several phases with different structural systems and varying degrees of workmanship.
- Numerous investigations of damages due to reported foundation movement for government, commercial, and residential structures.
- Tapino Restaurant. Investigation of reported damages due to differential foundation movement of the structure which was constructed partly on a subterranean parking structure and partly at grade in the backfill zone of the subterranean parking structure.
- One Arizona Center, Phoenix. Investigation of water intrusion damages to a 3-story underground concrete parking structure, approximately 110,000 sq. ft. total.
- Hulapai Youth Center. Investigation of thermal contraction/expansion cracks in autoclaved aerated concrete (AAC) masonry structure with a steel roof. The cracks developed in the AAC masonry walls during construction after the steel beams had been erected.
- Numerous concrete slab-on-ground shrinkage/cracking/curling investigations for industrial, commercial and residential structures.
- Gold Dust Center, Scottsdale. Investigation of an approximately 23,000 sq. ft. steel roof structure (light-gauge metal deck over open-web steel joists) which had suffered corrosion of the metal deck which was discovered by the owner during re-roofing work.

EXPERIENCE: (Cont.)

- Maricopa County Juvenile Detention Center, Phoenix. Investigation of an approximately \$16M construction delay claim (approximately half the cost of construction). The facility is a 134,000 sq. ft., 3-story steel framed structure which includes administration offices, courtrooms, classrooms, and detention blocks. Construction was delayed approximately 18 months. The delay was reportedly due, in part, to incomplete structural steel design.
- Offices at Kierland, Scottsdale. Investigation of transient roof noises in a 2-story steel framed structure.
- Regency House, Phoenix. Investigation of water intrusion damages to a 2-story underground concrete parking structure, approximately 70,000 sq. ft. total.
- Various fire damage investigations of wood-framed residential and commercial structures.
- Meinel Optical Sciences Building, Tucson. Investigation of alleged construction defects in a 5-story concrete structure.
- ASU Football Practice Field, Tempe. Investigation of corrosion damages to the field light pole bases.
- Durants Restaurant, Phoenix. Investigation and repair design of a crack in the exterior concrete masonry unit (CMU) wall.
- Desert Springs Golf Course. Investigation of movement of a structural rockery retaining wall.
- 24th St. & Highland Ave., Phoenix. Investigation of water intrusion damages to a three-story underground concrete parking structure, approximately 580,000 sq. ft. total.
- MaxTech Holdings. Investigation of damages to the steel roof structure (light gauge metal deck and open-web steel joists) allegedly due to deficient welding at two spec buildings, approximately 300,000 sq. ft. total.
- Northland Preparatory Academy, Flagstaff. Investigation of concrete construction defects in a 19,000 sq. ft. addition to an existing 2-story school structure.
- Williams High School, Williams. Investigation of the existing wood roof framing of an approximately 28,000 sq. ft. Classroom Building with Administrative Offices, Library and Mezzanine built circa 1957.

EXPERIENCE: (Cont.)

- Peoria High School Old Main, Peoria. Investigation of a 2-story Classroom Building with Basement and an attached 1-story Auditorium with Basement built circa 1920 which was a candidate for historic preservation.
- White Cliffs Middle School Bleachers, Kingman. Investigation of steel-framed bleachers with a 2,500 seating capacity.
- Laughlin Ranch Subdivision, Bullhead City. Investigation of alleged construction defects of numerous rockery retaining walls in the subdivision.
- Honeywell Area 12 Campus, Tempe. Investigation and shoring design of a partially collapsed subterranean tunnel ventilation shaft.
- Sun City Grande. Investigation of residential conventional concrete foundations and post-tensioned slab-on-ground foundation of over 500 homes with alleged construction defects.
- Washington Corporate Center. Floor flatness/levelness investigation of a newly constructed 6-story commercial office building.
- Silvercrest Residence, Paradise Valley. Investigation of a custom residential swimming pool which partially cantilevers from a hillside, including the waterproofing system and glass tile pool finish.
- Bella Vista Condominiums. Concrete construction defect investigation of 29 multi-family buildings, including five 3-story wood framed buildings with subterranean parking.