

Geneva Nicholls, PE
8421 N 69th E Ave, Owasso, OK 74055
918.814.3723 genevanicholls@sbcglobal.net

Experience

17 years as Structural Engineer
5 years as a Bridge/Structural Design Firm Owner

**Registration/
Certifications**

Oklahoma PE #22749
NCEES #30299
Washington PE (Civil, Inactive)

Education

BS Aeronautical & Astronautical Engineering, University of Washington, 1991

Skill Areas

Program & Project Management
Business & Budget Management
Concrete Bridge Design
Bridge Inspections
Design of Buildings Composed of Masonry, Concrete, Steel & Wood
Design of Structural Retaining and Sound Walls
Building Structural Inspection & Seismic Inventory
Structural Detailing & Shop Plan Preparation
Stress and Fatigue Analysis
Leadership by Example and through Serving
Excellent Communicator both Written and Verbal

Experience

2009-Present : Owner and Structural Engineer, Nicholls Consulting, PLLC, Owasso, OK

- Operator of Business including administration, financials, employee compensation and benefits, project and contract compliance, advertising and marketing.
- Design of components of bridges as well as helped prepare PS&E plans for local and state government.
- Load Ratings of steel, concrete and timber bridges.
- Structural Detailing and Preparation of shop plans for prestressed concrete girders.
- Project Management
- Please refer to Representative Projects below for a small sample of projects and responsibilities.

2006 to 2009 : Project Engineer, BKL, Inc., Tulsa, OK

- Project Management
- Performed Structural Design on commercial buildings.
- Structural Inspection of commercial buildings.
- Structural Inspection of steel and concrete bridges.
- Structural Detailing and Preparation of shop plans for prestressed concrete girders.
- Design and Detailing of steel and concrete bridge components in the state of Oklahoma. Refer to Representative Projects below.

1997 to 2001: Project Engineer, Nicholls Engineering, Spokane, WA

- Design of components of concrete prestressed bridges.
- Design of commercial and residential structures.
- Value Engineering for special structures for CXT Corporation.
- Book keeping and other administrative duties.

1994-1997: Staff Engineer, Design Engineering Associates of Nevada, Las Vegas, NV

- Project Management
- Structural design, calculations, and detailing of masonry, concrete, steel, and timber residential and commercial projects.
- Structural Inspection of masonry, concrete, steel, and timber residential and commercial projects.
- Performed technical presentations on structural designs to professional engineering organizations.
- Performed a seismic inventory over 400 buildings on Nellis Air Force Base in Las Vegas, Nevada

1991-1994: Staff Engineer, The Boeing Company, Seattle, WA

- Computer Analysis of wind tunnel data of commercial aircraft.
- Performed Structural Design and Stress Analysis on the body of the 757 aircraft.
- Extensive Fatigue Analysis and Developed Inspection Intervals for the 757 aircraft structure.
- Participated in the structural and functional redesign of the rigid barrier on the 757 freighter aircraft.

**Representative
Projects (Bridge)**

SH-1 over Rock Creek Bridge Replacement, Latimer & LeFlore Co., OK – Preformed Structural Design and prepared Bridge Plans for two 3-Span Prestressed Concrete Bridges.
Interstate 444 Bridge Rehabilitations, Tulsa, OK - Performed Structural Design and Prepared Contract Plans for 7 Interstate Bridge Rehabilitation Projects, including 4 Curved Steel and 1 Prestressed Concrete Bridge (10 Total Structures Completed in 45 Days)
Coreslab Engineering Services, Tulsa, OK - Provide Ongoing Prestressed Concrete Design Services and Shop Plans for Precast Concrete Fabricator
ODOT Statewide Bridge Redecking & Rehabilitation, OK – Conduct field Reviews & in-depth Inspections, Develop Field Assessment Reports, Perform Structural Design and Prepare Contract Plans for State Bridge Rehabilitation Projects (Contract Ongoing)
SH-66 over White Oak Creek, Craig Co. OK, - Designed Retaining Structures for Reinforced Concrete Box Replacement.
Bridge over California Creek, Nowata Co., - Preformed Substructure and Foundation Design and Plans for a 3-Span Prestressed Concrete Bridge.
Bridge over Big Creek, Craig Co., - Preformed Substructure and Foundation Design and Plans for a 3-Span Prestressed Concrete Bridge.
US 60 over the Salt Fork of the Arkansas River, Grant Co., OK – Preformed Substructure and Foundation Design and Plans for a 13-Span prestressed Concrete Bridge.
SH-66 over Pryor Creek Bridge Replacement, Rogers Co., OK – Preformed Substructure and Foundation Design and Plans for a 3-Span Prestressed Concrete Bridge.
SH-125 over Hudson Creek, Ottawa Co., OK – Preformed Substructure and Foundation Design and Plans for a 175-foot, 3-Span Prestressed Concrete Bridge over Hudson Creek.

**Representative
Projects
(Buildings & Misc)**

First United Methodist Church of Owasso - Performed Structural Steel Design for Interior Remodel.
Undercroft Montessori School, Tulsa OK – Performed Structural Design for a Single Story, Five Phase Timber Building
Hidden Oaks Sound Wall on Creek Turnpike, Jenks, OK – Coordinated Design of a 10' high x 1000' Sound Wall for Housing Development.
Walgreens, Las Vegas, NV. – Performed Structural Design of single story, Masonry and Steel buildings.
Templeton Office Building, Las Vegas, NV - Performed Structural Design of two story timber building.
10,000-25,000 sq. ft. Custom Homes, Las Vegas, NV - Performed Structural Design of one to three story timber, steel and masonry custom homes.
Broken Arrow Northeast Fire Station No. 6, Broken Arrow, OK – Precast concrete and masonry fire station.
Ottawa County Courthouse, Miami, OK – Two story steel and masonry concrete building.
Payne County Jail, Stillwater, OK – 5 story Pre-cast concrete structure.
Owasso Fire Station No. 3, Owasso, OK – Pre-engineered steel frame structure with brick base and EIFS wall system.
Craig County Juvenile Detention Center, Vinita, OK – New facility currently in the construction phase.
Broken Arrow Police Station Remodel, Broken Arrow, OK – Precast concrete with brick veneer.

**Inspections &
Inventories**

Nellis Air Force Base Seismic Inventory, Las Vegas, NV. – Conducted Inspections and Evaluated over 400 Buildings for Structural Adequacy
The Trail of the Coeur D'Alenes, Idaho – 35 bridge inspections for a 70 mile rails-to-trails project.
City of Pullman, WA - 17 Routine (biennial) bridge inspections.
Asotin County, WA – 15 bridge inspections and inventory

Affiliations

Structural Engineers Association of Oklahoma (OSEA)
American Society of Civil Engineers (ASCE)
American Council Engineering Companies of Oklahoma (ACEC)
Society of Women Engineers (SWE)

Computer Skills

AutoCad	Microsoft Office
MathCad	PSBeam
Leap RC-Pier	Brass-Culvert

References

Available on request.