

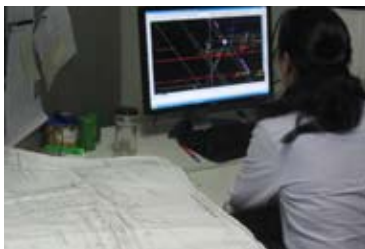


# Statement of Capabilities



Certified professionals specializing in  
*civil engineering,*  
*structural engineering*  
*and land surveying.*

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*We have a full staff of certified professionals.*



*Clients include the University of South Carolina.*



*We make certain that every project is completed on time and within budget.*



*All of our designs are produced using AutoCAD.*

*Throughout every project, it is Chao and Associate's primary goal to deliver a quality product on time and within budget. For nearly 25 years, we have proven to do so by providing trained, certified and skilled professionals to assist in getting the job done perfectly.*

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# Introduction

Chao and Associates, Inc. is a Columbia, South Carolina based consulting engineering firm that has tripled in size since our inception in 1987. Founded and operated by Jimmy Chao, our firm specializes in many areas including structural engineering, civil engineering and land surveying.

We have served numerous clients both large and small and from many different sectors including residential, private, non-profit, city, county, state and federal. From working with these clients on their projects, we have been recognized with numerous awards on the city, state, regional and national levels.

To ensure a perfect product every time, we have a staff of professional and licensed engineers, land surveyors, planners, technicians and administrative staff that are committed to delivering your product or service on time and within budget.

In addition, Chao and Associates is a certified Minority Business Enterprise (MBE) and 8(A) organization. With these certifications, we can help our clients meet MBE or 8(A) participation goals. As an MBE, we can even position your organization for a 4% state income tax credit on all state-funded projects.

## Services Offered

We take our jobs seriously. No matter the size or value of the project, we are dedicated to providing you with a quality product. In addition, we strive to portray our work in a honorable, practical, manageable, affordable and creative way, every time. Below is a detailed list of the services we offer.

### *Structural Engineering*

From the design period to the construction phases, we provide designs and service for new structures, expansions and renovations of older infrastructure. You can rest assured that form will meet function in any project that we are a part of.

Structural Engineering Services Offered:

- *Buildings*
- *Bridges and Piers*
- *Specialty Structures*
- *Forensic Engineering*
- *Seismic Retrofitting*



## Civil Engineering

Our staff has extensive planning, design and permitting experience in site development, water lines, sewage lines and roadway design. You can count on us to bring professionalism, creativity and nearly 25 years of experience to the table.

Civil Engineering Services Offered:

- *Municipal Engineering*
- *Grading Drainage and Erosion Control*
- *Utilities Design and Analysis*
- *Residential Subdivision Design*

## Surveying

We provide our clients with quality, accurate surveying. We utilize state-of-the-art technology in order to provide you with accurate surveying services within a timely manner.

Surveying Services Offered:

- *Boundary Surveys*
- *Topographic Surveys*
- *Construction Surveys*
- *Aerial Photo Control*
- *Commercial and Industrial Surveys*
- *Residential and Loan Surveys*
- *ALTA/ACSM Surveys*



# Licenses, Certifications & Professional Organizations

When you choose Chao and Associates, you can feel comfortable that you're in the hands of certified professionals. Below is a listing of our firm's licenses, certifications and professional organizations that we belong to. We can promptly provide documentation of these listed items upon request.

## Licenses

- *Registered Professional Engineer (SC, NC, GA, AL, FL, TX, VA, PA)*
- *Professional Surveyor (SC)*
- *General Contractor (SC)*
- *Building Inspector (SC)*

## Certifications

- *Minority Business Enterprise (MBE), given by SCDOT*
- *8(A) BD Organization, given by SBA*

## Professional Organizations

- *International Code Council (ICC)*
- *National Council of Examiners for Engineering and Surveying (NCEES)*
- *National Society of Professional Engineers (NSPE)*
- *United States Green Building Council (USGBC)*
- *American Society of Civil Engineers (ASCE)*
- *American Concrete Institute (ACI)*
- *South Carolina Society of Professional Engineers (SCSPE)*



# Key Personnel

You can rest assured that we have a staff that's knowledgeable and experienced enough to get the job done right! Below are resumes of our key personnel.

## Jimmy Chao President



### Formal Education

Ph.D, University of South Carolina, Pending  
M.S., University of South Carolina, 1983  
B.E., Chung Yuan University, Taiwan, R.O.C., 1978

### Technical Specialties

Project Management, Structural Design and Analysis, Dynamic and Earthquake Analysis and Design, Bridge Design, Bridge Inspection, Structural Evaluation, Structural Rehabilitation Design and Feasibility Study.

### Representative Professional Experience

1987 – Present; Chao and Associates, Inc.

Project Manager and Principal Designer of various structural and civil type projects. Responsibilities include overall production and management, feasibility studies, cost estimates, analyses, members sizing, plan production, specifications and construction management. A list of representative projects follows:

- Canalside Development Master Planning. *Columbia, SC*
- First Community Bank Administration Building. *Lexington, SC*
- Suggs and Kelly Center. *Columbia, SC*
- Lower and Upper Celia Saxon, Hope VI Housing, Infrastructure Project. *Columbia, SC*
- Main Street Beautification. *Columbia, SC*
- Disney World Resort Club House. *Hilton Head, SC*
- Confederate Printing Plant/Publix Renovation. *Columbia, SC*
- Pendleton Street Parking Garage. *Columbia, SC*
- Blossom Street Parking Garage. *Columbia, SC*
- Washington Street Parking Garage. *Columbia, SC*
- Marine Biology Lab, Baruch Institute. *Georgetown, SC*
- Gwan Jou Restaurant and Asia Chemical Converting Plant. *Columbia & Orangeburg, SC*
- Columbia Farms Headquarters Expansion. *Leesville, SC*
- McKissick Museum. *Columbia, SC*
- Track Stadium. *Clemson, SC*

- Harbison Fire Station. *Irmo, SC*
- 925 Huger St. Addition. *Columbia, SC*
- Ocean Drive Fishing Pier. *Myrtle Beach, SC*
- Asiachem Corporation Orangeburg Plant. *Orangeburg, SC*
- South Carolina Aeronautics Commission Beacon Relocation. *State-Wide, SC*
- Croft State Park Dam Emergency Spillway Repair. *Spartanburg, SC*
- Coastal Carolina College Dining Hall Addition. *Conway, SC*
- Medical School Elevator Addition, USC. *Columbia, SC*
- Melrose Road Water Tank Rehabilitation. *Columbia, SC*
- Williams Brice Stadium East Stand Vibration Repairs Design, USC. *Columbia, SC*
- Underwater Inspection for 72 Bridges. *SC Dept. of Highways & Public Transportation*
- SC Airport Pavement Management System Development. *SC Aeronautics Commission*

#### Inspection Projects:

- Fire Station Headquarters Inspection. *Columbia, SC*
- USC Towers Veil Block Inspection. *Columbia, SC*
- Over 500 Structural Evaluations. *State-Wide, SC*  
Projects include: failure and distress investigations, load capacity determinations and rehabilitation recommendations.
- Hermitage Mill Pond Dam Repair. *Hermitage, SC*
- Irmo High School Covered Walkways. *Irmo, SC*
- Melrose Road Tank Rehabilitation. *Columbia, SC*
- Bethesda Church. *Camden, SC*
- Piggly Wiggly. *Orangeburg & Summerville, SC*
- Thornwell Annex Rehabilitation. *Columbia, SC*

#### 1984 – 1987; Wilbur Smith Associates, Inc.

Project Engineer and Principal Designer for various types of bridge projects. Responsibility included member sizing, plan production and shop drawing checking. Representative projects are as follows:

- Highway 17 over Ashley River Bridge Rehabilitation. *Charleston, SC*  
This project was honored with an Engineering Excellence Award.
- James Island Expressway Bridge. *Charleston, SC*
- Interconnected Six Ramp Bridge Structures, i40/i75 Interchange. *Knoxville, TN*

#### 1983 – 1984; Lott Parrish and Associates

Structural and Civil Designer responsible for design and plans preparation for buildings, bridges, roadways, airport drainage and other miscellaneous structures. Representative projects are as follows:

- Moore's Creek Bridge. *Pender County, NC*
- Davis Garvin Office Building Complex. *Columbia, SC*
- Line 17R and Line 19 Ramp Bridges, i326/i26 (Dixiana) Interchange. *Columbia, SC*

## 1980 – 1981; Chien Wei Construction Company

Chief Superintendent for the construction of:

- A reinforced, two-story, brick building.
- An industrial park development of a sewage and walkway system.
- Parking lot pavement.
- An obstructive sewer on mountain side.
- Central road divided concrete pillar construction of Taiwan area national freeway from Taipei to Taoyuan.

## 1978 – 1980; ROTC Active Duty

Served as Second Lieutenant of Engineering Corps and an instructor of the Engineering Corps School.

## Publications

A listing of the publications Jimmy has been featured in, are as follows:

1. "Underwater Bridge Inspection Management System using Fuzzy Set Theory." *Pending.*
2. "Cost Comparison on Airport Pavement Design Between Rigid and Flexible Methods." *Pavement Course Design Project, USC.*
3. "A study of the Influence of Lateral Support Stiffness and Location on Lateral Torsional Buckling of a Simply Supported Beam." *M.S. Thesis, University of South Carolina, 1983.*



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7. Brief resume of key persons, specialists, and individual consultants anticipated for this project	
<p>a. Name &amp; Title: <b>Chimin J. Chao, PE</b> President</p>	<p>* Open-end structural consultant to All State and State Farms Insurance Company. Performed more than 200 cases of inspection, evaluation, repair design and expert witness services for disaster related claims. Little Rock Neck Golf, and Res. Community. Myrtle Beach, SC. Designer for 400' steel sheet pile cantilever retaining wall.</p>
<p>b. Project Assignment: Project Manager</p>	<p>* James Island Expressway Bridge, Charleston, SC. Project engineer and associate designer for phase V &amp; VII continuous cast-in-place post-tensioned box girder superstructures with integral column and pile foundation. Structure is designed for seismic zone 3.</p>
<p>c. Name of Firm with which associated: <b>Chao and Associates, Inc.</b></p>	<p>* Williams-Brice Stadium Vibration Rehabilitation. Columbia, SC. Perform dynamic analysis of the East Stand structure and design W24 x 176 struts to stabilized the "swaying" by changing the natural frequency.</p>
<p>d. Years experience: With This Firm <u>20</u> With Other Firms <u>8</u></p>	<p>* Underwater Bridge Inspection for 72 bridges, SCDOT. Performed underwater structure inspection. Decompression chamber was used. Clear water box was utilized for underwater photos in low visibility water. Davis-Garvin Office Building Complex, Columbia, SC. Designer of two story, steel frame office building.</p>
<p>e. Education: Degree(s) / Year / Specialization BE/1977/Civil Engineering MS/1983/Structural Ph.D/Pending</p>	<p>* Melrose Water Tank Rehabilitation, Columbia, SC. Project manager for structural evaluation and repair design of a 1.5 million gallon elevated water tank.</p>
<p>f. Active Registration: Year First Registered / Discipline 1987/Structural/SC 1999/Civil/VA 1988/Civil/NC 2004/Civil/TX 1998/Civil/PA 2006/Civil/AL, GA, FL</p>	<p>* Airport Maintenance Facility - Columbia Metropolitan Airport, Columbia, SC. Design and preparation of construction documents for the foundation systems of the 23,000 sq. ft. facility and the five accompanying structures.</p>
<p>g. Other Experience and Qualifications relevant to the proposed project:</p>	<p>* First Community Bank Headquarters-Lexington, SC. Design and preparation of construction documents for the 8,500 sq. ft. bank with canopy type drive thru and basement.</p>
<p>* Woodcreek Fire Station, Irmo Fire Station, North Main Fire Station, Devine St Fire Station and North Main at I-20 Fire Station for City of Columbia, SC. Performed Civil and Structural design for the two-story, CMU block load bearing wall facility.</p>	<p>* USC Calcott Social Science Building Renovation Columbia, SC. Performed seismic evaluation of the structure and provided reinforcement design.</p>
<p>* USC SCE&amp;G Engineering Complex, Columbia, SC. Performed structural engineering for the renovation design of the 4 story, 80,000 SF building including design slab for the computer lab which have low vibration tolerance.</p>	<p>* Indefinite delivery structural consultant for USC since 1989. Have performed numerous design, evaluation projects for structures throughout USC campus including BA building classroom renovation, medical school elevator addition, capstone basement wall demolition.</p>
<p>* Suggs &amp; Kelly Law Center, Columbia, SC. Principal designer of a four-story, 60,000 SF L-shaped, steel framed office building with composite concrete floor slab. Lateral forces are resisted by x-bracings.</p>	<p>* Principal designer of a 500 linear feet long, 15 feet high reinforced concrete retaining wall and a 700 feet long timber bridges for Riverbanks zoo West entrance</p>
<p>* Columbia Farms Water Treatment Building and Pump Station Design. 3000 SF pre-engineered building with basement &amp; 150' retaining wall.</p>	<p>* Project Manager for evaluation and repair/improvement design for 17 parking garages in Columbia, Myrtle Beach, Charleston and Spartanburg.</p>
<p>* South Campus Housing - University of South Carolina, Columbia, SC. Design and preparation of construction documents for the 144,000 sq. foot student dormitory complex. Hollow core slabs, concrete masonry and cast in place concrete were predominately utilized.</p>	<p>* Parking garages are constructed with prestressed double-tee. Post-tensioned slab, cast-in-place concrete as well as structural steel.</p>
<p></p>	<p>* USC Baruch Institute Marine Biology Laboratory. Georgetown, SC. Design of 18000 SF, oceanfront, wood-framed elevated building with timber piles and observation deck on roof.</p>



## John Tien Director of Civil Engineering



### Formal Education & Professional Registration

Engineer-in-Training in the State of South Carolina  
B.E., University of South Carolina, 1970

### Technical Specialties

Subdivision Layout, Roadway Layout, Paving, Resurfacing and Storm Drainage Design, Hydraulic Analysis, Water Main and Sanitary Sewer Main Engineering.

### Representative Professional Experience

#### 1996 – Present; Chao and Associates, Incorporated

Has over 37 years of professional experience. Has provided engineering services for residential, commercial and institutional subdivisions which included planning and designing of water systems, sewer systems, pump stations, storm drainage, lot layout plans, grading, roads, parking lots, building layouts, sidewalks, curb and gutter, etc. Has provided feasibility studies for prospective land developments and cost estimates. A list of representative projects are as follows:

- Main Street Beautification. *Columbia, SC*
- Lady Street Beautification. *Columbia, SC*
- Lower and Upper Celia Saxon, Hope VI Housing, Infrastructure Project. *Columbia, SC*
- Westgate Industrial Park Bridge Replacement. *Clover, SC*
- Fort Mill Parkway. *Rock Hill, SC*
- Green Oaks Apartments. *Charlotte, NC*
- Magnolia Point Shopping Center. *Richland County, SC*
- North Main Street Fire Station. *Columbia, SC*
- Colony Lakes Subdivision. *Lexington County, SC*
- Regatta Point Subdivision (Residential Community). *Lexington County, SC*
- The Estates at Hilton, (Residential Community). *Lexington County, SC*

#### 1985 – 1996; Allied Engineering Consultants, Incorporated – Principal

Provided engineering services for residential, commercial and institutional subdivisions which included the planning and designing of water systems, sewer systems, storm drainage, lot layout plans, grading, streets, parking lots, building layouts, sidewalks, curb and gutter, etc. Also provided feasibility studies for prospective land developments, provided design of utility systems for several municipalities and worked in Computer Aided Design and Mapping for Utility Systems for the City of Cayce and site improvement plans for residential, commercial and institutional developments. A list of representative projects are as follows:

- Bent Creek Plantation, 72 Residential Lots. *Lexington, SC*
- Hunter's Ridge Subdivision, 109 Residential Lots. *Lexington, SC*
- Woodcreek Subdivision, 253 Residential Lots. *Lexington, SC*
- Night Harbor Subdivision, 114 Residential Lots Including Tennis Courts and Dry Boat Storage. *Lexington, SC*
- Lexington Place Shopping Center. *Lexington, SC*
- Addition to Fruit of the Loom. *Lexington, SC*
- Seven Fire Stations. *Richland County, SC*
- Topspin Racquet & Swim Club. *Lexington, SC*
- Seven Oaks Presbyterian Church. *Lexington, SC*
- Mills Communication Center. *Richland County, SC*
- Golds Plaza Shopping Center. *St. Andrews, SC*
- Dr. Paul Hahn Office Building. *Columbia, SC*
- United One Office Complex. *Columbia, SC*
- Wilkes Road Shopping Center. *Richland County, SC*
- Shoney's Restaurant. *Columbia, SC*
- Fort Jackson Credit Union. *Columbia, SC*
- Parklane Road Mini Storage. *Columbia, SC*
- Captain D's Restaurant. *St Andrews, SC*

#### 1984 – 1985; Metro Engineering Consultants, Incorporated – Principal

Provided engineering services for preparation of site improvement plans for commercial, residential and institutional developments. Also designed utility and site improvement plans for municipalities. Prepared site improvement plans for National Cemetery Expansion in the City of Florence, SC.

#### 1970 – 1984; B.P. Barber & Associates, Incorporated

Design Engineer for numerous projects including the Columbia Riverfront Park and Historic Canal. Also served as the Design Engineer for Callawassie Island, a \$30 million dollar resort residential community in Beaufort County, SC.

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<p>7. Brief resume of key persons, specialists, and individual consultants anticipated for this project</p>	
<p>a. Name &amp; Title:  <b>John Tien</b>                  Director of Civil Engineering</p>	<p><b>Bent Creek Plantation</b> - 72 residential lots and Old Cherokee Road in Town of Lexington, South Carolina.</p> <p><b>Hunter's Ridge Subdivision</b> - 109 residential lots on Highway #6 in Town of Lexington, South Carolina.</p> <p><b>New York Apartments</b> - a City of Columbia, South Carolina Housing Project</p> <p><b>Green Oaks Apartments</b> -HEC-1 and HEC-2 flood study of existing channel and culverts for City of Charlotte, North Carolina.</p>
<p>b. Project Assignment:                  Senior Project Engineer</p>	<p>Provided Engineering services for <b>residential, commercial and institutional subdivisions</b> which included planning and designing of water systems, sewer systems, storm drainage, lot layout plans, grading, streets, parking lots, building layouts, sidewalks, curb &amp; gutter, etc. Provided feasibility studies for prospective land developments. Also provided design of utility systems for several municipalities. Also worked in computer aided design and mapping for Utility Systems for City of Cayce and site improvement plans for residential, commercial, and institutional developments.</p>
<p>c. Name of Firm with which associated:  <b>Chao and Associates, Inc.</b></p>	<p>Provide engineering services to <b>USC Upstate</b> for design of two parking lots and widening/lane addition at North Campus Boulevard.</p>
<p>d. Years experience: With This Firm <u>12</u> With Other Firms <u>27</u></p>	<p>Provided engineering services to <b>USC Columbia Campus</b> for design of Parking lots, rehabilitation of Bull Street, alteration to College Street Mall.</p>
<p>e. Education: Degree(s) / Year / Specialization                  B.S./1972/Engineering</p>	<p>Provided engineering services for a proposed <b>Humanities Pavilion Restaurant</b> at USC Columbia Campus.</p>
<p>f. Active Registration: Year First Registered / Discipline                  1976/Civil Engineering</p>	<p>Provided engineering services to <b>City of Columbia's Main Street Streetscaping</b> project to upgrade the parking, sidewalk, pavement and underground utility service lines. This project also includes providing an underground duct bank system for future communication and underground utilities. The project currently extends from Gervais Street north to Laurel Street, a distance of approximately 3000 feet and will ultimately extend an additional 1500 feet to Elmwood Avenue.</p>
<p>g. Other Experience and Qualifications relevant to the Proposed project:</p>	<p><b>Colony Lakes Subdivision, Lexington County, SC</b> - Prepared grading and utility plans for a 76 acre site, 250 homes subdivision. This Project included the design of 8" water main, 8" sanitary sewer, elimination of existing pump station, design new twin 20 HP pump station, 2" force main, a storm water detention facility and control of the sediment from runoff.</p> <p><b>Night Harbor Subdivision</b> - 114 residential lots including tennis courts and dry boat storage at Lake Murray in Lexington, County, South Carolina</p> <p><b>Regatta Point Subdivision</b> - A residential community on Lake Murray, in Lexington County, South Carolina.</p> <p><b>The Estates at Hilton</b> - a residential community on Lake Murray, in Lexington County, South Carolina.</p>

## Michael Sheu Senior Civil Engineer



### Formal Education & Professional Registration

Registered Professional Engineer in the State of South Carolina  
B.S., Virginia Military Institute, 1970

### Technical Specialties

Roadway Layout, Paving, Resurfacing and Storm Drainage Design, Hydraulic Analysis, Water Main and Sanitary Sewer Main Engineering and Feasibility Study. Trained in use of Microstation CADD and GEOPAK.

### Representative Professional Experience

More than 30 years experience providing a variety of services including the preparation of roadway design plans, specifications and bid documents. Extensive experience in the use of Intergraph (Microstation) CADD systems and engineering applications packages such as GEOPAK and INROADS. A list of representative projects are as follows:

- Main Street Beautification. *Columbia, SC*
- Celia Saxon, Hope VI Housing, Infrastructure Project. *Columbia, SC*
- Greer South Parkway. *Greer, SC*
- SC544 Bridge over Gravelly Gulch. *Horry County, SC*
- Drainage Design US15. *Marlboro County, SC*
- Drainage Design US378. *Lake Murray, Lexington, SC*
- Storm Drainage Design. *US 17 Bypass, Horry County, SC*



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<p>7. Brief resume of key persons, specialists, and individual consultants anticipated for this project</p>	<p>a. Name &amp; Title:  <b>Michael F. Sheu</b>  Senior Project Engineer</p> <p>b. Project Assignment:  Project Engineer</p> <p>c. Name of Firm with which associated:  <b>Chao and Associates, Inc.</b></p> <p>d. Years experience: With This Firm <u>5</u> With Other Firms <u>33</u></p> <p>e. Education: Degree(s) / Year / Specialization  B.S./1970/Civil Engineering</p> <p>f. Active Registration: Year First Registered / Discipline  1975/Civil Engineering</p> <p>g. Other Experience and Qualifications relevant to the proposed project:  More than 30 years experience providing a variety of services including the preparation of roadway design plans, specifications and bid documents. Extensive experience in the use of Intergraph (Microstation) CADD systems and engineering applications packages such as GEOPAK and INROADS.</p> <p><b>Upper and Lower Celia Saxon, Hope VI Housing, Infrastructure Project, Columbia, SC</b> - Preparation of grading, storm drainage, erosion control and utility plans for a seventy-five unit HUD funded residential development in downtown Columbia, SC. Site work included the acquisition of all necessary permits from SCDHEC, the SCDOT and the Norfolk Southern Railway Corporation. The engineering work included the design of an extensive storm drainage system as well as the design of a major new storm water outfall passing under an existing railroad bridge/trestle and state highway.</p> <p><b>Greer South Parkway, Greer, SC</b> - Responsible for the preparation of bridge hydraulic analyses for the proposed Greer Bypass crossings of the Tyger River in Spartanburg County, SC. The Tyger River, at this location, possessed a FEMA designated floodway. Close coordination with the bridge designers was needed to insure both the preparation of a sound, efficient design and to minimize any further constriction of the river flow so as to not unduly affect the calculated floodway boundaries presented in the FEMA Study. These analyses included the preparation of a Conditional Letter of Map Revision (CLOMR) to assess the impacts of the proposed highway bridge, and its' abutments, upon the projected water surface elevations during various storm events, and to make revisions to Spartanburg County, SC. The Tyger River, at this location, possessed a FEMA designated floodway. Close coordination with the bridge designers was needed to insure both the preparation of a sound, efficient design and to minimize any further constriction of the river flow so as to not unduly affect the calculated floodway boundaries presented in the FEMA Study. These analyses included the preparation of a Conditional Letter of Map Revision (CLOMR) to assess the impacts of the proposed highway bridge and its' abutments, upon the projected water surface elevations during various storm events, and to make revisions to the designated floodway boundaries resulting from construction of the proposed bridge. These analyses also included determination of the required bridge waterway opening dimensions, a detailed estimation of the expected abutment scour forces and the design of effective measures to counteract such forces.</p> <p><b>Preparation of grading and drainage plans for the Bush Gardens Subdivision, located on Bush River Road, in Columbia, SC</b> - Analyses included a complete dambreak analysis (FLDWAV) of the existing pond structure as well as a complete storm drainage design for the 33 lot subdivision. Submittals included the necessary documentation for a grading permit to include grading drainage and erosion control plans.</p> <p><b>Preparation of engineering site plans for a variety of commercial developments in Richland and Lexington counties</b> - These projects have included the development of site layout plans, grading and drainage plans, erosion control plans, utility construction and/or relocation plans and traffic control plans. In addition, each of these projects required approved permits from a variety of state and local engineering departments as well as permit approvals from a range of review agencies.</p> <p><b>Analyses of the existing and proposed bridge opening hydraulics for the replacement of the SC544 bridge over Gravelly Gulch, in Horry County, SC</b> - Hydrologic evaluations were performed to estimate flow from the watershed corresponding to appropriate storm events. Hydraulic analyses included calculations to verify the efficacy of the bridge waterway opening presented in the Department's design, as well as hydraulic modeling, using the HEC-RAS software package, to estimate water surface elevations and flow velocities during various storm events. These results, coupled with the results of detailed subsurface investigations at the site, were utilized to estimate likely abutment and pier scour effects, and to formulate appropriate countermeasures.</p> <p><b>Drainage Design US 15, Marlboro County, SC</b> - Preparation of storm drainage design and NPDES permit documentation for the widening and improvement of US 15/401 in Marlboro County, SC. The geometric design was developed, by the SCDOT with the drainage design incorporated into the CADD prepared construction plans for the project.</p> <p><b>Drainage Design US378, Lake Murray area, Lexington, SC</b> - Responsible for the preparation of storm drainage and erosion control plans for the widening of approximately 7 miles of US378 along the south shore of Lake Murray in Lexington County to a five lane highway section.</p> <p><b>Storm Drainage Design, US 17 Bypass, Horry County, SC</b> - Responsible for the preparation of storm drainage and erosion control design plans for the widening and improvement of approximately 3.5 miles of US 17 Bypass near Myrtle Beach. These projects included two major interchanges as well as a major box culvert, under US 17, forming a part of the overall regional drainage plan for the entire area.</p>
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## Frank Robertson Project Surveyor



### Formal Education & Professional Registration

South Carolina Professional Licensed Surveyor #12843  
B.A., Psychology

### Technical Specialties

Land Surveying with Robotic and GPS Equipment.

### Representative Professional Experience

- Savannah River Site. *SWPF Location, SC*
- Columbiana Centre. *Columbia, SC*
- 12th Street Extension. *Columbia, SC*
- Waste Water Treatment Facility on Broad River. *Columbia, SC*
- EdVenture Museum. *Columbia, SC*
- Newberry Landfill Closure. *Newberry, SC*
- Columbiana Station. *Columbia, SC*
- South Carolina State University. *Orangeburg, SC*
- Chester Middle School. *Chester, SC*
- McEntire Air National Guard Base. *Columbia, SC*
- The Summit: Phase I and II. *Columbia, SC*

# Standard Form 255

<p>7. Brief resume of key persons, specialists, and individual consultants anticipated for this project</p>	<p>* <b>The Summit - Phase I and Phase II</b> Boundary of property, established control and aerial targets for aerial tool, sub-divide lots, stake roads, sanitary sewers systems, storm drain systems, as-builts and closing surveys.</p>
<p>a. Name &amp; Title: <b>Frank G. Robertson, RLS</b> Project Surveyor</p>	<p>* <b>Columbiana Centre</b> All construction lay-out for site work for Eagle Construction Co. Building pads, sanitary sewer, storm drainage, water line, electric M.H.S. and communication M.H's., perimeter road, parking area and islands – as-built plans of same.</p>
<p>c. Name of Firm with which associated: <b>Chao and Associates, Inc.</b></p>	<p>* <b>12<sup>th</sup> St. Extension</b> Includes boundary surveys of properties affected, place monuments for SCDOT along roadway and where property lines intersect roadway (Saxe-Gotha Road)</p>
<p>d. Years experience: With This Firm 3 With Other Firms 27</p>	<p>* <b>Waste Water Treatment Facility on Broad River</b> Construction staking of plant and collector lines, boundary of properties affected, easement plats, and as-built for Lettis, Inc.</p>
<p>e. Education: Degree(s) / Year / Specialization Bachelor of Arts / 1974 / Psychology</p>	<p>* <b>Newberry Landfill Closure</b> Boundary and topo survey of existing landfill for volume. Grade staking for clay cap to seal landfill contents</p>
<p>f. Active Registration: Year First Registered / Discipline 1989 / Registered Land Surveyor - SC #12843</p>	<p>* <b>Columbiana Station</b> Boundary and ground run, topographic survey, as-built locations of all utilities for desing of new commercial district on Harbison Boulevard. Profile and cross sections for design of Bower Parkway, a new connector road between Harbison Boulevard and Piney Grove Road. Building lay-out for construction.</p>
<p>g. Other Experience and Qualifications relevant to the proposed project: Mr. Robertson has been licensed in the state of South Carolina as a Professional Land surveyor for over 19 years. During those 19 years of experience, he been crew leader for boundary surveys, sub-division layouts, topographic surveys, ALTA surveys, construction staking and as-builts surveys, flood studies, wetland surveys, road lay-outs and preliminary road design surveys. A list of representative projects are listed as follows:</p>	<p>* <b>S.C. State University</b> Boundary vertical and horizontal control for aerial topographic mapping. As-builts of all building footprints, utilities, roadways for campus upgrades. Construction staking on improvement projects.</p>
<p>* <b>Greenville Army Reserve Center US Coast and Geodesic Survey</b> Determine the vertical datum of existing site elevations by completing a closed loop differential level run from the nearest NGS benchmark to the site. The loop included the tie in of two separate, and existing points on-site. These two points (new benchmark locations) will be at the two property corners along Perimeter Road. Confirm the vertical datum is NGVD 29, NAVD 88 or an assumed elevation. Complete a horizontal and vertical location survey of the existing wash rack.</p>	<p>* <b>Chester, South Carolina Middle School</b> Boundary and site work for school expansion, construction staking for new buildings, road, parking areas, athletic fields and all utilities for school improvements.</p>
<p>* <b>McEntire Air National Guard Base</b> Using site monuments, locate and as-built ground water monitoring wells on Base for mapping purposes. Topographic surveys of various locations on Base for design and construction of new buildings and utilities to secure them.</p>	<p>* <b>S-105 Bridge Replacement over Big Poplar – Santee</b> Hydro, geotechnical borings location and topographic survey of a bridge. Set right-of-way monuments.</p>
	<p>* <b>Highway 76/378 Three Bridges Replacement Projects</b> Vertical and Horizontal control survey for aerial topographic mapping of a 5 miles roadway including three bridges. Hydro-survey of the creeks and lake upstream and down stream of the bridges. Topographic survey of 1000 ft on both ends of each bridges. Use GPS and robotic gun to facilitate the survey task.</p>



# Relevant Experience

Looking for a firm with experience? We've been in business for nearly 25 years, and have become an active part of our community. Chao and Associates' experience includes clients in both the federal, state and local governments as well as clients in the private sector. We have worked on numerous types of projects, both large and small. Below is a more in depth look at some of our most prominent projects.

## Structural Analysis, Inspection & Rehabilitation



**Williams-Brice Stadium.** *Columbia, SC*  
Client: University of South Carolina  
Project Value: \$200,000  
Project Description: Analyzed and assessed the source of vibration and designed stabilization.



**Underwater Bridge Inspections.** *Statewide, SC*  
Client: South Carolina Department of Transportation  
Project Values: Ranging from \$250,000 to \$400,000  
Project Description: Conducted structural and underwater bridge inspections for more than 230 bridges statewide.

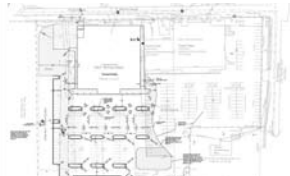


**Melrose Road Water Tank.** *Columbia, SC*  
Client: City of Columbia  
Project Value: \$1.2 Million  
Project Description: Redesigned the badly-corroded steel truss support for an elevated 1.5-million gallon tank.

## Building Design



**Structural Engineering.** *Statewide, SC*  
Clients: USC, SCDOT, MUSC, Dept. of Corrections  
Project Values: Ranging from \$500 to \$70,000  
Project Description: Open-ended contracts for evaluation, analysis and seismic retrofit design for building renovations, additions and rehabilitation.



**Piggly Wiggly Store & Retail Space.** *Various Locations, SC*  
Client: Piggly Wiggly  
Project Values: Ranging from \$3 Million to \$6 Million  
Project Description: Prepared structural plans and specifications for shopping centers at various locations in South Carolina including Magnolia Point, Mills Corner, St. Matthews and Knightsville.



### South Campus Student Housing. Columbia, SC

Client: University of South Carolina

Project Value: \$20 Million

Project Description: Performed design and construction observation for a 14,000 square-foot, five-story, masonry-bearing, walled dormitory.



### Suggs and Kelly Law Center. Columbia, SC

Client: Suggs and Kelly Law Firm

Project Value: \$7 Million

Project Description: Performed construction management, prepared structural and civil construction plans and permit applications for a 66,000 square-foot, four-story, composite steel frame office building.

## Bridges & Piers Design



### Lady Street Bridge. Columbia, SC

Client: City of Columbia

Project Value: \$1.5 Million

Project Description: Design of highway bridge over CSX railroad.



### Quail Lane Bridge. Columbia, SC

Client: City of Columbia

Project Value: \$280,000

Project Description: Provided plans for the demolition, construction and utilities relocations of a 120-foot concrete slab bridge.

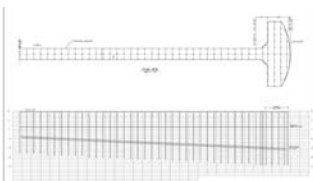


### SC-277 Pedestrian Overpass. Columbia, SC

Client: South Carolina Department of Transportation

Project Value: \$3.8 Million

Project Description: Designed a 300-foot concrete box girder bridge with a 360-foot cored slab approach ramp using "Seismic Design Specifications for Highways and Bridges."



### Ocean Drive Fishing Pier. North Myrtle Beach, SC

Client: O.D. Limited Partnership

Project Value: \$800,000

Project Description: 1,200-foot fishing pier designed to resist hurricane force winds.

## Municipal Engineering



### Main Street Streetscaping. Columbia, SC

Client: City of Columbia

Project Value: \$11.7 Million

Project Description: Street improvements including new pavement, brick sidewalks and street lighting for five blocks.

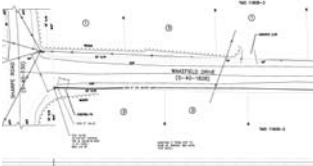


### Lady Street Streetscaping. Columbia, SC

Client: City of Columbia

Project Value: \$12.5 Million

Project Description: Street improvements including new pavement, curbs, sidewalks and lighting.

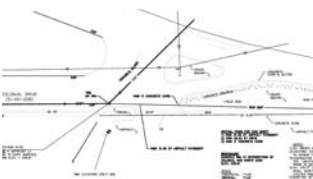


### Holly Hills Water Main. Columbia, SC

Client: City of Columbia

Project Value: \$1 Million

Project Description: Prepared plans for the upgrade of an existing subdivision's fire protection system, including 13,250 linear feet of 8-inch water main and 1,740 linear feet of 6-inch water main.



### Prescott Terrace Sewer Addition. Columbia, SC

Client: City of Columbia

Project Value: \$1 Million

Project Description: Provided plans for the construction of 3,383 linear feet of sanitary sewer piping to serve an existing subdivision.

## Site Development



### Colony Lakes Subdivision. Columbia, SC

Client: Colony Lakes Subdivision

Project Value: \$1.5 Million

Project Description: Prepared construction plans and permit applications for a 78-acre, 178-lot residential subdivision. Project included sidewalks, natural jogging trails and a playground.



### Magnolia Point Shopping Center. Columbia, SC

Client: Asbill-Christopher/McCreary-Snow

Project Value: \$6 Million

Project Description: Prepared site grading plans, utilities plans, permit applications and storm water retention computations for an upscale retail development.

## Pavement & Drainage Design



### *Celia Saxon. Columbia, SC*

Client: Columbia Housing Authority

Project Value: \$7.2 Million

Project Description: Design of streets, drainage and utilities for a 25-acre housing project.



### *Wilshire Road Drainage Improvements. Columbia, SC*

Client: Richland County

Project Value: \$250,000

Project Description: Provided a drainage study and construction plans to reduce flooding in surrounding properties.

## Forensic Engineering



### *Forensic Investigations. Statewide, SC*

Clients: Various

Project Values: Ranging from \$1,000 to \$500,000

Project Description: Performed over 500 evaluations and assessments for various buildings damaged by fire, hurricane, wave action, settlement, corrosion, explosions, etc. Our engineers have been accepted as expert witnesses for depositions and court testimony.

## Professional References & Testimonials

We are confident with our work, but don't take our word for it. Listen to what a few of our past clients have had to say about us:

*"Over the past few months, we have had occasion to use the talents and expertise of Chao and Associates to help us solve structural issues on campus. I wanted to let you know how impressed we are with their level of expertise and professionalism. The fees are reasonable and the evaluations are very comprehensive. Additionally, the designs and solutions are practical and response time has been timely and outstanding.*

*I hope we are able to retain this firm for future work. Having had experience with other structural firms over the four years that I have been here, Chao and Associates is far ahead of any of them. It is a distinct pleasure to work with them."*

F.D. Puncke, Jr.

University of South Carolina: Spartanburg  
Director of Facilities Management  
800 University Way  
Spartanburg, SC 29303  
Phone: (864) 503-5000



*"Thank you for participating in bidding to repair several facilities for the homeless population in the City of Columbia. Your immediate and prompt response enabled us to put this project forward to its eventual completion."*

Dave Cummings

City of Columbia  
Support Services Division  
1924 Calhoun Street  
Columbia, SC 29201  
Phone: (803) 545-3115



*"We wish to express our deep appreciation for the personal and professional expertise and integrity of Jimmy Chao of Chao and Associates."*

South Carolina Chamber of Commerce  
1201 Main Street, Suite 1700  
Columbia, SC 29201  
Phone: (803) 799-4601



# Standard Form 254

<b>STANDARD FORM (SF)</b> <b>254</b> Architect-Engineer and Related Services Questionnaire	1. Firm Name / Business Address: <b>Chao and Associates, Inc.</b>  7 Clusters Ct. Columbia, SC 29210  1a. Submittal is for <input checked="" type="checkbox"/> Parent Company <input type="checkbox"/> Branch or Subsidiary Office  5a. Former Parent Company Name(s), if any, and Year(s) Established: N/A  6. Names of not more than Two Principals to Contact: Title / Telephone 1) C. Jimmy Chao/President/(803)772-8420  7. Present Offices: City / State / Telephone / No. Personnel Each Office  <b>Chao and Associates, Inc.</b> 7 Clusters Court Columbia, SC 29210 Tel: 803-772-8420  7a. Total Personnel <u>16</u>	2. Year Present Firm Established: 1987  3. Year Prepared: 2009  4. Specify type of ownership & check below, if applicable. Corporation <input checked="" type="checkbox"/> A. Small Business <input checked="" type="checkbox"/> B. Small Disadvantaged Business <input type="checkbox"/> C. Woman-owned Business																				
8. Personnel by Discipline: (List each person only once, by primary function.)																						
2 Administrative Architects Chemical Engineers 3 Civil Engineers 1 Construction Inspectors 2 Draftsmen Ecologists Economists	Electrical Engineers Estimators Geologists Hydrologists Interior Designers Landscape Architects Mechanical Engineers Mining Engineers  Oceanographers Planners: Urban/Regional Sanitary Engineers Soils Engineers Specification Writers 5 Structural Engineers 2 Surveyors 1 Transportation Engineers	Last 5 years (most recent year first) <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:20%;"></td> <td style="width:20%; text-align: center;">2008</td> <td style="width:20%; text-align: center;">2007</td> <td style="width:20%; text-align: center;">2006</td> <td style="width:20%; text-align: center;">2005</td> </tr> <tr> <td>Direct Federal contract work, including overseas</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> <td style="text-align: center;">0</td> </tr> <tr> <td>All other domestic work</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> </tr> <tr> <td>All other foreign work*</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>		2008	2007	2006	2005	Direct Federal contract work, including overseas	0	0	0	0	All other domestic work	5	5	5	5	All other foreign work*				
	2008	2007	2006	2005																		
Direct Federal contract work, including overseas	0	0	0	0																		
All other domestic work	5	5	5	5																		
All other foreign work*																						
9. Summary of Professional Service Fees Received: (Insert index number) Direct Federal contract work, including overseas All other domestic work All other foreign work*																						
* Firms interested in foreign work, but without such experience, check here: <input checked="" type="checkbox"/>																						
Ranges of Professional Service Fees INDEX 1. Less than \$100,000 2. \$100,000 to \$250,000 3. \$250,000 to \$500,000 4. \$500,000 to \$1 million 5. \$1 million to \$2 million 6. \$2 million to \$5 million 7. \$5 million to \$10 million 8. \$10 million or greater																						



10. Profile of Firms=s Project Experience, Last 5 Years


Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)	Profile Code	Number of Projects	Total Gross Fees (in thousands)
1) 002	2	150	11) 048	1	5	21) 095	3	96
2) 010	2	30	12) 050	300	650	22) 099	1	10
3) 011	15	800	13) 052	8	139	23) 101	21	195
4) 014	3	16	14) 057	1	4	24) 106	6	900
5) 017	15	200	15) 058	6	34	25) 102	300	700
6) 021	1	30	16) 069	4	31	26) 113	2	30
7) 027	5	102	17) 072	15	320	27) 049	1	25
8) 029	7	127	18) 087	2	50	28) 013	1	6
9) 035	4	40	19) 088	3	28	29) 025	3	53
10) 039	9	117	20) 089	9	191	30) 083	1	50

11. Project Examples, Last 5 Years

Profile Code	A, P, A, C, or A, J, V, or A, I, E	Project Name and Location	Owner Name and Address	Cost of Work (in thousands)	Completion Date (Actual or Estimated)
002 046 102	C	1 Highway 76/378 Widening- Sumter to Columbia Columbia, SC	S. Carolina Department of Transportation 955 Park Street. Columbia, SC 29201	10,000	01/2007
084 057 069	C	2 Walden Visitation Center SC Department of Corrections Columbia, South Carolina	South Carolina Department of Corrections 4322 Broad River Road Columbia, SC 29210	500	10/2001
017 046 102	C	3 Dyer Toyota Toyota Columbia, South Carolina	Bruce Dyer/ Dick Dyer Toyota 3215 Two Notch Road Columbia, SC 29204	11,000	11/2008
088 102 059	P	4 Finley Park Fountain/Facilities Renovation City of Columbia Columbia, SC	City of Columbia 1225 Laurel St. Columbia, SC 29217	400	02/2007
056 102	P	5 Mountain Brook Drainage Improvement Richland County, SC	Richland County 2020 Hampton Street Columbia, SC 29204	500	08/2008
008 029	C	6 Auditorium/Classroom Building USC Lancaster Campus Lancaster, South Carolina	University of South Carolina 743 Green Street Columbia, SC 29202	6,600	11/2001
017 056 115	C	7 Patriots Center Development Sumter, South Carolina	W.R. McLeod 1320 Old Manning Rd Sumter, SC 29150	4,200	07/2008

036 102	C	8	<b>Woodcreek Fire Station</b> City of Columbia Fire Department Columbia, South Carolina	<b>City of Columbia</b> 1737 Main Street. Columbia, SC 29201	2,500	10/2007
050 102	P	9	<b>Celia Saxon Hope VI Housing Development</b> Columbia Housing Authority Columbia, South Carolina	<b>Julia Prater</b> 1917 Harden Street Columbia, SC 29204	5,000	10/2005
049 089	C	10	<b>Sheraton Downtown Columbia</b> Palmetto Building Renovation Columbia, South Carolina	<b>Rick and Ken Patel (London One)</b> 1400 Main Street Columbia, SC 29201	4,900	3/2008
087 089	C	11	<b>Sumter Regional Transit Authority Renovation</b> Sumter, South Carolina	<b>Watson Tate Savory Architects</b> 1336 Washington St. Columbia, SC 29201	7,600	12/2007
087	C	12	<b>Central Midlands Regional Transit Authority</b> CMRTA Columbia, SC	<b>CMRTA</b> 3613 Luscious Road Columbia, SC 29201	3,500	03/2007
072 102	C	13	<b>First Community Bank</b> Headquarters, Forest Dr., Irmo, West Columbia, Gilbert, Two Notch Road & Red Bank Branch Lexington & Richland County, SC	<b>First Community Bank</b> 5455 Sunset Blvd. Lexington, SC 29072	11,900	7/2005
014	C	14	<b>Red Bank United Methodist Church</b> Sanctuary and multi-purpose Facility Addition Columbia, SC	<b>Mr. Allen Marshall, AIA</b> Architrave, Inc. 730 Blanding Street Columbia, SC 29201	800	8/2004
035	C	15	<b>Athletes Training Facility</b> Columbia, South Carolina	<b>University of South Carolina</b> 743 Greene Street Columbia, SC 29208	1,500	7/2006
039 089	P	16	<b>Blossom Street Parking Garage</b> Evaluation and Repair Design University of South Carolina, South Carolina	<b>University of South Carolina</b> 743 Greene Street Columbia, SC 29208	400	5/2000
017 050 039	C	17	<b>Five Points South</b> Columbia, SC	<b>HR Developer</b> 1333 Main Street Columbia, SC 29201	25,000	10/2008
035 089	P	18	<b>USC Williams-Brice Stadium</b> Annual Inspections and Various Rehabilitation Projects Columbia, South Carolina	<b>University of South Carolina</b> 743 Greene Street Columbia, SC 29208	30	11/2005
039 089	P	19	<b>Four Parking Garages</b> Evaluation and Repair Design, Phase II Columbia, South Carolina	<b>City Of Columbia</b> 1225 Laurel St. Columbia, SC 29217	2,400	9/2008



089 050	P	20	<b>Lowman Hall Renovations</b> South Carolina State University Orangeburg, SC	<b>Watson Tate Savory Architects</b> 1336 Washington St. Columbia, SC 29201	6,900	10/2007
089 010 095	C	21	<b>Calcott Social Science Annex Renovation With Seismic Upgrading</b> University of South Carolina Columbia, SC	<b>University of South Carolina</b> 743 Greene Street Columbia, SC 29208	4200	7/2002
089 010	C	22	<b>Senate Plaza Condominiums Brick Veneer Replacement</b> Columbia SC	<b>Senate Plaza</b> 1520 Senate Street Columbia, SC 29201	50	08/2007
089 095 027	C	23	<b>Confederate Printing Plant Renovation</b> Grocery Store & Offices Columbia, SC.	<b>Jenkins, Hancock &amp; Sides, PA</b> 1812 Lincoln Street Columbia, SC 29201	3500	09/2004
089 072 113	C	24	<b>1900 Barnwell St Office Renovation</b> Richardson, Plowden Attorneys at Law Columbia, SC	<b>Richardson, Plowden Attorneys at Law</b> 1900 Barnwell Street Columbia, SC 29201	3,400	11/2006
088 109 011	C	25	<b>Riverbanks Zoo West Entrance</b> Tunnel, Retaining Wall and Timber Pedestrian Bridge Columbia, South Carolina	<b>Riverbanks Zoo</b> Columbia, SC	2,300	04/2001
011	P	26	<b>Underwater Bridge Inspection, Contract 16</b> Statewide, South Carolina	<b>SCDOT</b> P.O. Box 191 Columbia, SC 29202	350	10/2003
017	C	27	<b>Piggly Wiggly Market Commons Shopping Center</b> Columbia, South Carolina	<b>LUK, MB1, LLC</b> Chicago, IL	5,400	02/2008
017	C	28	<b>Piggly Wiggly Bluffton 38 M Store</b> Bluffton, SC	<b>Asbill Christopher Development, Inc.</b> P. O. Box 1058 Columbia, SC 29202	3,500	06/2007
011 021	P	29	<b>Pedestrian Overpass over SC 277</b> Columbia, SC	<b>SCDOT</b> P.O. Box 191 Columbia, SC 29202	3,800	9/2003
088 011	C	30	<b>Lexington County Soccer Complex</b> Lexington, SC	<b>Lexington County Recreation and Aging Commission</b> 563 South Lake Drive, Lexington SC 29072 Wando, SC 29492	2,000	8/2001
12. The foregoing is a statement of facts				Date:		
Signature: 			Typed Name and Title: <u>Chimin J. Chao, P.E., President</u>			2/27/2009

# Contact Us

We look forward to hearing from you soon!

Address: 7 Clusters Court  
Columbia, SC 29210

Point of Contact: Jimmy Chao, President  
Phone: (803) 772-8420  
Fax: (803) 772-9120  
Email: [consult@chaoinc.com](mailto:consult@chaoinc.com)

Website: [www.ChaoInc.com](http://www.ChaoInc.com)

