



KERRVILLE, TEXAS

Resume for Jim Maxwell, P.E., Principal

Jim Maxwell has over ten years of consulting engineering experience in the design and construction administration of civil and structural engineering projects. His structural experience includes concrete, steel, aluminum, masonry, and timber structures/buildings; concrete, masonry and steel sheet pile/retaining walls; shallow and deep foundations; reinforced/precast concrete short-span bridge and parking garage structures; earthen levees and impoundments; and structural forensic investigations involving industrial, commercial and residential structure rehabilitation and foundation stabilization. His civil engineering experience includes site surface drainage; sanitary sewerage and storm sewerage systems; stormwater control structures; and HMAC and reinforced concrete paving.

EDUCATION

Public SchoolsLeakey and Corpus Christi, Tx.
Pre-Engineering CourseworkSchreiner College, 1986-1987
BS Civil Engineering (Structural).....Texas A&M University, 1990
MS Civil Engineering (Geotechnical).....Texas A&M University, 1992

EMPLOYMENT HISTORY

References available upon request

1999 - PresentMaxwell Engineering, Principal
1995 - 1999Shiner, Moseley and Associates, Inc., Project Engineer
1992 - 1995Naismith Engineering, Inc.; Engineering Assistant
1990 - 1991Texas A&M University, Graduate Research / Teaching Assistant
1984 - 1986Voelkel Engineering & Surveying, Surveyor

AFFILIATIONS

Registered Professional Engineer, State of Texas (#80643)
National Society of Professional Engineers
Texas Society of Professional Engineers
American Society of Civil Engineers
Chi Epsilon Honor Society
Tau Beta Pi Honor Society

ACTIVITIES

Building Code Board of Appeals, City of Kerrville, 2000-Present
President, ASCE Corpus Christi Branch, 1998-1999
Vice President, ASCE Corpus Christi Branch, 1997-1998
Director, TSPE Nueces Chapter, 1996-1998

STRUCTURAL / BUILDINGS

James Avery Craftsman, Inc. Mail Order Addition*
A3 Studio
Kerrville Recycling Center Addition*
City of Kerrville

ACTIVITIES (cont.)

Secretary, ASCE Corpus Christi Branch, 1996-1997
Landmark Commissioner, City of Corpus Christi, 1995-1998
Awards Committee Co-Chairman, TSPE Nueces Chapter, 1995-1996
Treasurer, ASCE Corpus Christi Branch, 1995-1996
Newsletter Editor, ASCE Corpus Christi Branch, 1994-1995
Newsletter Editor, TSPE Nueces Chapter, 1993-1994

TECHNICAL PUBLICATIONS, PRESENTATIONS AND AWARDS

"Evaluation of the Corpus Christi Seawall", Proceedings, ASCE Spring Meeting, 1999
TSPE Nueces Chapter President's Award, 1997
TSPE Nueces Chapter Young Engineer of the Year, 1995
"53 WAK Tests on Spread Footings", Proceedings, ASCE Specialty Conference: Settlement '94, 1994
"Soil Stiffness Beneath a Rigid Mass Using Non-destructive Impact Testing", Master's Thesis, Texas A&M University, 1992
"Dynamic Method to Assess the Stiffness of Soil Underlying Spread Foundations", Proceedings, FHWA Transportation Research Board, 1991

TYPICAL PROJECT EXPERIENCE

Engineering has been performed on several types of projects including:
- Structural / Buildings - Forensic Investigations
- Marine / Waterfront - Municipal / Utilities
- Earthen Embankments - General Civil / Drainage
- Foundations / Retaining Walls - Project Management*

Kerrville Municipal Airport Tee-Hangars*
City of Kerrville

Bank of the Hills - Comfort*
Owen Graham, AIA

Dentist Office - timber superstructure and foundation concrete design
Reuben Bohnert, Architect

Doctors Office and Custom Homes - timber and steel superstructure and foundation concrete design*

David Martin, AIA, A3 Studio

4-H Skeet Shoot Houses – precast concrete and steel superstructures and foundation concrete design
Billy Snow and Jack Burch

Kerr Regional History Library Renovations – reinforced concrete and masonry elevator shaft addition, structural steel stair well, site paving*
Wagner & Klein, Architects

Comanche Trace Ranch Sports Club and James Avery Human Resources Building – Foundation and superstructure designs*
Artisan Group

Comanche Trace Duplexes*
El Dorado Construction/Ron Imel, Builder

Ag Shop Addition
Ingram ISD

Golf Course Pro Shop
City of Llano

EMC Automation Addition – Cedar Park*
Hang Tin Buildings

Guadalupe River Resort Pavilion – steel building design
Washington Steel Systems

Iran, Texas H.S. Press Box – structural steel design
Apache Construction

Structural steel stairs for 3 level warehouse
Valls Group, Laredo

Celia's Closet – steel building design, box culvert/driveway structure*
Owen Graham, AIA

Water tank support structure – structural steel design
Tony Martin Builders

Rehabilitation of backwater levee flood gates*
City of Corpus Christi

Analysis and design of several precast concrete box culverts*
Varmicon/Gilbert Texas Construction

Analysis of existing CIP concrete building at Hoechst Celanese for retrofitted air-handling units
HMG & Associates

Structural repairs to Bulk Dock 2 conveyor belt 1
Port of Corpus Christi Authority

Analysis and design of 7-story precast concrete parking garage superstructure
Heldenfels Enterprises, Inc.

City of Corpus Christi Greenwood WWTP, Design of DAF thickener and dewatering buildings*
Urban Engineering

Texas A&M University - Corpus Christi University Center, Structural analysis, reinforced concrete design and construction observation of 10,000-sq. ft. building*
Bennett, Martin and Solka

South Texas Birding Trail Boardwalk/Observation Deck
Texas Parks and Wildlife Department

Pipe rack analysis and foundation design*
Statia Terminals

Precast/CIP concrete hike/bike trail bridge
TAMU-CC
Analysis and design of compressor foundation at Elevator A, Port of Corpus Christi Authority

Bath and Associates, Inc.

Reinforced concrete valve box and thrust block designs
South Texas Water Authority

Analysis and design of reinforced concrete/masonry addition to the San Patricio County Courthouse, Sinton
McGloin + Sween

Analysis and design of electrical substation structural steel bus and dead-end structures, TransAmerica Refining
Ed Rotter Engineering

Analysis and design of electrical substation structural steel bus and switch structures, Diamond Shamrock
Ed Rotter Engineering

Analysis and design of composite pipe pile-supported pipe crossing
San Patricio Municipal Water District

Catenary steel cable-supported pipe crossing
City of Laredo

Precast/cast-in-place concrete short-span bridge crossings*
City of Portland

Reinforced masonry/timber framed municipal park fishing pier, observatories, concession and restroom facilities, Rob and Bessie Welder Park*
City of Sinton

Reinforced masonry/timber framed municipal park observatory, boardwalk, concession and restroom facilities
City of Refugio

Reinforced masonry/timber framed municipal park concession and restroom facilities*
City of Bishop

Structural steel and corrugated metal pipe elevated culvert/flume
Nueces County Water Control and Improvements District No. 3

Reinforced concrete tank vault and lifting plan
Oxychem

MARINE / WATERFRONT

Shoreline stabilization on Arroyo Colorado*
Dismukes Enterprises

Analysis and design of Rincon Canal bulkhead anchorage system rehabilitation*
Port of Corpus Christi Authority

Design of sheet pile bulkhead and revetment mat shoreline protection at Viola Turning Basin
Port of Corpus Christi Authority

Oil Dock 5 elevated structural steel pipe bridge*
Brownsville Navigation District

Houston ship channel cement dock elevated personnel walkway
PEC
Excursion boat docking facility
Port of Harlingen

Analysis, design and construction administration of Cargo Dock 15 steel sheet pile bulkhead and relieving platform system*
Brownsville Navigation District

Analysis and design of new reinforced concrete covered mooring facility, Port Isabel
U.S. Coast Guard

Analysis and design of new reinforced concrete covered mooring facility, Sabine Pass

U.S. Coast Guard

Jersey City cement dock w/structurally raised concrete relieving platform
PEC

Dry dock mooring line/anchorage analysis
Brownsville Navigation District

Steel sheet pile bulkhead and relieving platform system analysis and design
Berry Contracting

Steel sheet pile weir and bulkhead extension including site drainage improvements
Texas Parks and Wildlife Department

Reinforced concrete sheet pile system analysis and design, Pelican Cove, Aransas Pass
Marine Creek, Inc.

Analysis and design of steel sheet pile/reinforced concrete cap cofferdam Cuero Hydroelectric Dam

EARTHEN EMBANKMENTS

Slope stability analysis of municipal landfill embankments
City of Alice

Feasibility study including analysis and design of reinforced and unreinforced earthen embankments for new surface impoundment
American Chrome and Chemical

Feasibility study including analysis and design of unreinforced earthen embankment crest cap for storage capacity increase of existing surface impoundment
American Chrome and Chemical

FOUNDATIONS / RETAINING WALLS

Miscellaneous residential foundation designs

A3 Studio*
Archetype Designs*
Athens Designs
Compton Enterprises*
Cotten Landreth Architects
Draftex*
The Design Center
Guadalupe Builders*
Ignacio Salas-Humara, AIA*
Integrity Homes*
IWS Homes*
Lifestyle Homes*
Mark Sullivan, Builder*
El Dorado Construction/Ron Imel, Builder*
Tony Martin Builders*
Various Homeowners*

Miscellaneous foundations

1st Baptist Church – Llano*
A3 Studio*
Artisan Group*
City of Llano
Comanche Trace Ranch*
Creed Blevins*
Golf Cars & Care*
Jack Burch*
Owen Graham, AIA*
Reuben Bohnert, AIA
El Dorado Construction*
Ultrafit*
Western Hills Baptist Church – Kerrville*

Tied-Back reinforced concrete retaining wall
Hampton Inn - Kerrville

Cantilevered reinforced concrete retaining wall
Raul Pena – Camp Verde

Piles and Pile Caps for Special Lifting Device
Aker Gulf Marine

Splice box/switchgear foundation
Central Power and Light Co.

3.36 M gallon tank ringwall foundation design
Coastal

Foundation analysis and design for switchgear buildings and transformers
Qualitech Steel Corporation

Compressor, transformer and switchrack foundation analysis and design
Aker Gulf Marine

Rail crane A-frame foundation design
Aker Gulf Marine

Analysis and design of pinch roll pit
Aker Gulf Marine

Rotoblast building foundation design
Aker Gulf Marine

Design of pile caps for 300' x 400' x 60' tall fabrication building
Aker Gulf Marine

TEPPCO substations dead end structure, transformer and equipment room foundations
Colwell & Associates

Livestock barn metal building foundation, City of Kingsville
Martin and Schmidt Construction Co.

Strip footing foundation rehabilitation*
Southwestern Bell Telephone Co.

Strip footing foundation rehabilitation, Liberto Specialties warehouse*
Bill Oliver

Several reinforced concrete drilled shaft and raft foundation designs for pre-engineered metal buildings*
Dickson Builders

Reinforced concrete mat foundation/hazardous waste tank farm containment facility*
American Ecology

Reinforced concrete mat foundation and structural steel hazardous waste stabilization containment facility*
American Ecology

Hazardous waste storage tank foundation certification*
Elf Atochem North America

Hazardous waste storage tank foundation certification*
American Ecology

Hazardous waste bulk stabilization metal building drilled shaft foundation design*
Texas Ecologists, Inc.

Hazardous waste drum storage metal building drilled shaft foundation design*
Texas Ecologists, Inc.

Analysis and design of Edroy wastewater treatment plant raft foundation
City of Edroy

FORENSIC / INVESTIGATIONS

Several residential foundation and superstructure investigations*

Various Clients: Owners & Insurance Companies, Corpus Christi & Kerrville

Hanger truss and monorail analysis
Naval Air Station - Kingsville

Seawall investigation*
City of Corpus Christi

Investigation of failure of timer fendering system of Pier B-1*
U.S. Navy

Koch breasting structure allision investigation and repair assessment
Hull & Cargo Surveyors/Tidewater Marine

Liquid cargo dock mooring structure and personnel bridges allision investigation and repair assessment
Georgia Gulf Corporation

Alumina loading facility allision investigation and repair assessment, Reynolds Metals
Kleberg and Head

Covered mooring facility timber pile/column investigation and rehabilitation, West Harbor
San Patricio County Navigation District

Condition and structural assessment of cast-in-place reinforced concrete hyperbolic paraboloid roof structure
Floyd Chapman

Condition and structural assessment of timber framed, arched roof storage facility
Gulf Compress

Structural investigation and rehabilitation of potable water reservoir
Reynolds Metals Company

Chime tower support slab analysis, Corpus Christi Cathedral
Ed Rotter Engineering

MUNICIPAL / UTILITIES

Sanitary and storm sewer service extensions*
Industrial Piping Specialists

Wastewater treatment plant wet well rehabilitation*
City of Odem

Sanitary sewer gravity and force main extension*
City of Odem

Municipal landfill closure plan*
City of Odem

Water distribution system improvements*
City of Odem

GENERAL CIVIL / DRAINAGE

James Avery Craftsman, Inc. Mail Order Addition
A3 Studio

Site grading/drainage plan – Fellowship Hall*
Western Hills Baptist Church - Kerrville

Municipal Auditorium / Playhouse 2000 Project - Site paving and drainage plan*
Artisan Group

Wetlands creation and enhancement at Powderhorn Lake
Alcoa

Southside Retail Area Transportation Plan
City of Corpus Christi

Surface drainage plan and HMAC paving design*
Industrial Piping Specialists

Surface drainage plan and reinforced concrete pavement design, French-Ellison Truck Center*
Dickson Builders

Courtyard stormwater drainage improvements
Oakcrest Nursing Center

PROJECT MANAGEMENT

Projects mentioned above that have included or are anticipated to include project management/construction administration services are indicated with an asterisk (*).

MISCELLANEOUS

Value Engineering study, chrome plating facility, Corpus Christi Naval Air Station
Cotten/Landreth Architects