

FIELD & TEST ENGINEERING, Inc.
ACCIDENT RECONSTRUCTION SPECIALISTS
Highway, Street & Offsite Facilities – Safety & Analysis
4510 Pacific Coast Highway, Suite 200 • Long Beach, CA 90804
Southwest Executive Suites - El Paso, Texas
PH (800) 675-7667 – FAX (562) 494-7667

SERGIO I. AGUILAR, P.E.

SPECIALIZING IN

***Traffic Engineering:**

Permanent and Work Zone Traffic Control / Parking & Off Road Facilities / Barriers including Guardrail

***Design of Roadways (Highway, Street & Off Road Facilities):**

Geometric Alignment / Freeway Interchanges / Traffic Control Devices / Barriers / Sight Distance / Bridges / Sidewalks, Curb & Gutter / Lighting / Hydraulics-Hydrology (Drainage and Drainage Structures) / Federal and State Regulations and Standards

***Roadside Design - Off-Lane Portions of Roadway Environment:**

Clear Zone Requirements / Sidewalks / Parking Areas / Side Slopes / Obstacles (Natural or Designed) / Landscaping / Barriers (including Guardrail) / Break-a-Way Bases & Poles / Lighting / Right-of-Way Requirements

***Roadway Construction and Maintenance:**

Work Zone Traffic Control / Traffic Control Plans / Adherence to Plans & Specifications / Plan Continuity

REGISTRATION:

Professional Engineer, Texas (Number 27792)

PROFESSIONAL EXPERIENCE:

Field & Test Engineering, Inc. - **Roadway Safety Engineer** - Road and off-road accidents, safety research and analysis (January 2002 to the Present)

Texas Department of Transportation, **District Design Engineer Manager** - Responsible for Freeway, Highway and Street design for the El Paso District (April 2000 to the Present)

Aguilar Engineering and Surveying - **Engineer Manager** - Land Development, Roadway Design, Public Works Construction and Engineering Surveying. Also Prepared Work Zone Traffic Control Plans for numerous Public Works Projects (October 1993 - April 2000)

Texas Department of Transportation, **District Design Engineer Manager** - Responsible for Freeway, Highway and Street design for the El Paso District (August 1968 - September 1993)

Texas Department of Transportation, **District Design Engineer Supervisor** - Responsible for Freeway, Highway and Street design for the El Paso District (February 1963 - August 1968)

EDUCATION:

Bachelor of Science in Civil Engineering – (June 1962)

Texas Department of Transportation:

Roadway Hydraulic and Hydrological Design - (January 1983)

Risk Management to Reduce Tort Liability - (November 1986)

Preparation of Plans, Specs and Estimates - (June 2001)

Traffic Signal Design - (April 2002)

Highway Capacity Manual - (August 2003)

Highway Project Development - (August 2003)

Lighting and Illumination Design - (July 2004)

TECHNICAL BACKGROUND:

Traffic Engineering: Highway Lighting, Traffic Control (Permanent or Maintenance/Construction) adequacy including signs, pavement markers, barriers, guardrails, traffic control plans.

Geometric Roadway & Bridge Design: Alignment, curvature, banking, speed limits, sight distance, etc.

Road & Street Construction & Maintenance: Construction and maintenance; considerable knowledge and experience in engineering surveying.

Roadside Design: Concrete barriers, guardrail, clearance to objects and "loosely" compacted side slopes (rail, trees, barriers, poles, inadequate slope compaction or "soft" side slopes.)