



Steve Schoenekase, PE

Associate-in-Charge

Education

BS, Architectural Engineering,
University of Kansas, 1992

Registrations

Professional Engineer:
Texas, 1998 (#83392)
Oklahoma, 2008 (# 23357)
Arkansas, 2008 (#13495)
Louisiana, 2008 (# 33880)
New Mexico, 2008 (#18634)
NCEES Record #30544

Years of Experience

Total Years: 17
WSA: 2.5

2007-Present
Wilbur Smith Associates
Dallas, Texas

Professional Affiliations

American Society of Civil
Engineers (ASCE)
American Concrete Institute
(ACI)
National Society of
Architectural Engineers
(NSAE)
Texas Public Works
Association (TPWA)

TxDOT Precertification

3.2.1, 3.4.1, 3.5.1, 3.6.1, 4.1.1,
4.2.1, 4.3.1, 4.4.1, 5.1.1, 5.2.1,
8.1.1, 10.1.1, 10.2.1, 10.3.1

Publications

“Development Length Criteria:
Bars Not Confined by
Transverse Reinforcement” –
ACI Structural Journal, Vol. 89
No. 6 – Nov/Dec 1992

Technical Training

AASHTO Highway Bridge
Design, University of
Wisconsin, 1996
Inspection of Fracture Critical
Bridge Members, National
Highway Institute, 1994
Design of Segmental Concrete
Bridges, American Segmental
Bridge Institute, 1994

Mr. Schoenekase has 16 years of experience in the design of roadway facilities and related structures. He has been involved in many aspects of this design work from the geometry and structural layout of a multi-level interchange to complete design of urban thoroughfares. He has successfully completed the design of several projects at the municipal level, as well as state projects, often balancing the needs of the local community against the standards required by state agencies on multi-jurisdictional projects. Relevant project experience includes:

General Engineering Consultant, City of Parker, TX (2005-2007) – Served as the program director for this project serving as the general engineering consultant for the City of Parker and served on retainer as the city engineer as part of an annually renewing contract. In such capacity, Mr. Schoenekase was responsible for the planning and design of roadway, drainage, utility, and facilities projects. This contract also encompassed overseeing construction of city funded projects, reviewing private development plans and construction, developing master plans for future municipal initiatives, and all other services requiring engineering expertise.

Capital Improvements Program Manager, City of McKinney, TX (2003-2007) – Served as the program director for this ongoing, \$100+ million annual program to maintain, upgrade, and expand the city’s roadway, utility, and drainage networks. In 2003 Mr. Schoenekase’s role in the city of McKinney’s CIP was expanded from the Infrastructure Initiative (below) to managing the entire CIP. The daily tasks remained much the same, but the workload increased by five to six times. In addition, the types of projects expanded from small residential streets to major thoroughfares, pump stations, lift stations, water storage tanks, and pipelines. There was also a component of the program directed at facilities to include three new fire stations and an 88,000 square foot public safety building. While overseeing a team of engineers in managing this program, Mr. Schoenekase was also contracted separately to oversee the design and construction renovation of the Historic Collin County Courthouse on the downtown McKinney Square. This 125-yearold structure was completely restored and returned to use as a performing arts venue without altering its historic significance and prominence on the town square.

Infrastructure Initiative Program, City of McKinney, TX (1999-2001) – Served as the program manager for a 3-year, \$15.9 million program directed at improving the city’s existing infrastructure. This position included the evaluation of all potential improvements across the city, prioritizing the selected projects, selecting design consultants and reviewing the subsequent design work, contracting with qualified construction firms and reviewing the construction projects. Mr. Schoenekase supervised all surveying efforts, geotechnical evaluations, and right-of-way acquisitions subsequent to each project constructed. Close coordination with the city’s staff and council was required through regular updates and public presentations.

Municipal Design Projects

Dallas North Veloway Phase 3 and YMCA Connection,, Dallas County, TX (2008-present) – Currently serving as Project Director for the design of this two-mile section of dedicated pedestrian trail to be constructed within an abandoned rail corridor. The design includes several roadway and stream crossings as well as connections between the main trail and various city streets to provide access to the

Texas CEC Leadership forum,
2005
Texas Planning and Zoning
Law, 2003

Veloway. Geometrically, the design must conform to ADA standards and bikeway standards to insure safety.

Bailey Road, Veterans Drive to FM 1128, City of Pearland, TX (2008-present)

– Currently serving as deputy project manager and team leader for the widening of this 1.5 mile section of 4-lane undivided thoroughfare into 6 lane divided facility. The scope of work involves paving, drainage, utilities, traffic control, surveying, and right-of-way acquisition. Construction is scheduled to begin in late 2009

Dairy Ashford Road, near US 90A, City of Sugar Land, TX (2008-present)

– Currently serving as a team leader for this alignment and feasibility study to improve the safety and operation of Dairy Ashford Road as it approaches and crosses US 90A. Once the study is complete, construction plans will be prepared for the subject area.

Erosion Control Group 06-802, City of Dallas, TX (2008) – Served as project manager and lead design engineer for the development of construction plans and specifications for erosion control improvements at several locations throughout the city. The improvements involved constructing gabion walls along creek channels and replacing slope protection near bridge crossings. The designs were completed in December 2008 and will be constructed in 2009.

Betsy Lane, FM 2551 to Dublin Road, Collin County, TX (2001-2005) – Served as associate-in-charge for the widening of a 1.5-mile section of 2-lane roadway into a 6-lane divided thoroughfare. The project includes paving and drainage design, traffic control plans, surveying, and right-of-way acquisition.

Stone Road, Birmingham Road to John Akins Lane, City of Wylie, TX (2001-2004) – Served as the associate-in-charge for this widening and realignment of a 2-lane urban roadway into a six-lane thoroughfare. The project includes paving and drainage design, traffic control plans, utility upgrades, surveying, and right-of-way acquisition and construction administration.

Broadway Avenue, US 377 to N Beach Street, TxDOT Fort Worth District, City of Haltom City, TX (1996-2000) – Served as project manager for the design of this 1.5 mile urban thoroughfare. This project widened Broadway Avenue from a 2-lane to a 4-lane urban roadway. Design efforts included the roadway geometry, paving plan and profiles, storm drainage plans, intersection layouts, and traffic control plans. Also prepared the specifications and construction estimate for the project as well as a complete environmental assessment (FONSI). Coordinated and conducted two public hearings in conjunction with this project.

Willie Street, College Street to Baker Street, City of McKinney, TX (2001-2002) – Served as project manager for this infrastructure improvement project. The project included paving and drainage improvements, utility upgrades, surveying, and right-of-way acquisition and construction administration.

Howe Drive, City of Sherman, TX (2005-2006) – Served as associate-in-charge for the design and reconstruction of approximately 2,000 linear feet of roadway along a heavily traveled industrial route. The goal of the project was to widen the roadway and upgrade the structure of the slab to accommodate heavily laden semi-trailers serving two major industries. Complicating matters was the nearly continuous operation of these facilities and the constant traffic during construction.

The entire project was completed ahead of an accelerated schedule.

Highway Design Projects

LA1 Phase 2, LaDOTD, LA (2007-present) – Assisted in the planning phase of this 7+ mile extension of the elevated structure replacing the existing LA1 highway from Golden Meadow (south of New Orleans) to Port Fourchon on the Gulf of Mexico. The project involves the study of alternative alignments through the swamplands and crossing numerous navigation canals and pipelines. A thorough study of the proposed levee crossing near Golden Meadow and the required coordination with the US army Corps of Engineers and the levee district were completed to the satisfaction of all parties.

IH 635/US 75 Interchange, TxDOT Dallas District, TX (1992-2004) – Initially served as member of the structural design team responsible for the preliminary layout of more than 30 bridges within this 5-level interchange in north Dallas (while with previous employer). Later Mr. Schoenekase was a deputy project manager and led a team in the design of the storm drainage systems and culverts. The storm drainage design consisted of more than 600 inlets and manholes and nearly 15 miles of pipe.

FM 2551 Widening, FM 544 to FM 2170, TxDOT McKinney Area Office, Collin County, TX (2001-2005) – Served as associate-in-charge for the widening of a 3-mile section of rural highway through a rapidly developing residential area. The project included paving and drainage design, traffic control plans, structural design of a three-span bridge, and the upgrades to traffic signals at several locations. The success of the project was dependent on the ability to address the concerns of multiple stakeholders without disrupting the integrity of the project.

IH 30 Widening, Tarrant County Line to Loop 12, TxDOT Dallas District, TX (1995-1999) – Mr. Schoenekase was a key highway designer for three separate PS&E sections for this \$80 million, 6-mile, urban freeway widening project. This portion of IH 30 is the key highway connector between Dallas and Fort Worth. Mr. Schoenekase's contribution to this project included the survey coordination, horizontal and vertical geometry design, and the storm drainage/culvert design.

FM 2170, Allen Heights Drive to FM 2551, TxDOT Dallas District, City of Allen, TX (2001-2004) – Served as project manager for this \$5 million widening of a 1.1-mile, two-lane rural highway into a six-lane urban highway. The roadway serves as a major arterial route through the City of Allen. The project included paving plans, significant storm drainage design, traffic control, signing and striping, and utility relocations. Although being designed for the City of Allen, this project was constructed by TxDOT.

Structural Design Projects

US 75 Widening, TxDOT Dallas District, TX (1992-1994) – Assisted in the detailing of six bridges over US 75 near downtown Dallas. These structures were predominantly precast box beams with cast-in-place sections along each edge to allow for curvature of the outermost lanes. Mr. Schoenekase was also responsible for the design and detailing of the retaining walls for Ramp EWRNFR Bridge, a curved steel girder structure over US 75.

Collin County Bridge Replacement, Collin County, TX (1999 & 2003) – Served as associate-in-charge and project manager for the design and construction of two

pairs of county road bridge replacements. The 1999 County Bond program included CR 1100 over Bear Creek, a single span pre-stressed concrete beam structure, and CR 463 over Stiff Creek, a simple box culvert design. The 2003 County Bond Program included CR 673 over Bear Creek, a single span structural slab structure, and CR 429 over Sister Grove Creek, a single span pre-stressed concrete beam structure.

FM 317 (The Athens Loops), TxDOT Tyler District, Athens, TX (1998-1999) – Served as project manager and lead engineer for concrete bridges. This work included layouts, design of all structural elements, and complete detailing of all three structures. Of special interest was the foundation system proposed for a crossing through a swamp land with extremely poor soil conditions where friction piles were utilized in place of the more typical drilled shafts.

Schematic Design Projects

FM 2551 Widening, FM 544 to FM 2170, TxDOT McKinney Area Office, Collin County, TX (2000-2001) – Served as project manager for this 7.5 mile rural highway widening project in Collin County. The existing two-lane asphalt section had seen significant increases in traffic as a result of residential development as well as the construction of an elementary school, middle school, high school, and 10,000 seat football stadium on a single site adjacent to the project. The proposed improvements included widening to six-lanes, a fully landscaped median, dedicated right and left turn lanes, and traffic signals at multiple locations. During the preliminary stages, Mr. Schoenekase led the route studies, public involvement, environmental assessment, and development of the schematic design, which had been approved by TxDOT.

Bridge Inspection

Dallas North Tollway and Mountain Creek Lake Bridge Inspections, North Texas Tollway Authority, Dallas, TX (1992-1994) – Responsible for overseeing the inspection and evaluation of the 51 bridges and two interchanges that make up the Dallas North Tollway in connection with an inspection and review program conducted annually for the NTTA. Mr. Schoenekase was also in charge of reviewing the NTTA proposed budget and insurance coverage plans to verify accuracy and compliance with the Trust Agreement under which the authority operates.

1994 BRINSAP, TxDOT Dallas District, TX (1994) – Served as office engineer responsible for coordinating review work and coding of approximately 400 off-system bridges.

Environmental Studies

Broadway Avenue, US 377 to North Beach Street, TxDOT Fort Worth District, City of Haltom City, TX (1996-1997) – Served as project manager, coordinator, and author of a complete environmental assessment that uncovered a significant hazardous material contamination within the project limits requiring careful mitigation prior to construction. Once the mitigation was completed a Finding of No Significant Impact (FONSI) was issued.

FM 2551 Widening, FM 544 to FM 2170, TxDOT McKinney Area Office, Collin County, TX (2000-2002) – Served as associate-in-charge, coordinator, and author of a complete environmental assessment for this joint-funded project. The study revealed a small wetland area near one of the creek crossings as well as a historically significant home adjacent to the project. Both issues were resolved through design modifications by spanning the creek with a single structure and

altering the alignment to preserve the homestead, and the project received a FONSI.

Main Street Reconstruction, Del Rio, TX (2007) – Served as associate-in-charge of the Phase I Environmental Site Assessment to determine if any significant environmental factors warranted further study prior to the design and reconstruction of the infrastructure improvement project in downtown Del Rio.