



AMERICAN
STRUCTUREPOINT
INC.

1. VENDOR PROFILE

SUBMITTED TO LAKE COUNTY, FLORIDA

SEPTEMBER 21, 2021



STATEMENT OF INTEREST & UNDERSTANDING OF PROJECT

We understand that Lake County is soliciting engineering firms to be available for on-call transportation and traffic engineering services, as required by the County. We have studied Exhibit A and are prepared to provide planning and traffic engineering services as outlined in Section 2.

SAFETY. MOBILITY. ACCESSIBILITY.

Safety, mobility, and accessibility are the goals of every transportation improvement project. The challenge, of course, is in achieving them within budget and with minimal disruption to the natural environment or neighborhood. With more than 50 years of experience delivering transportation system upgrades to local communities, American Structurepoint is a leader in traffic and roadway engineering services.

Innovative intersection design allows us to deliver significant improvements within limited spaces.

American Structurepoint has provided planning, analysis, design, and peer review of over 300 roundabouts! Roundabouts improve vehicular safety with 75% fewer crashes than a four-legged intersection. They have also been shown to reduce pedestrian accidents by up to 40%.

We have also evaluated and designed other innovative intersections that improve safety and operations, like median u-turns (MUTs), restricted crossing u-turns (RCUTs), and displaced left-turns. Recently, we have seen more communities being receptive to green-T intersections allowing efficient movement of vehicular traffic while maintaining a more familiar “T” shape.

Complete streets elements encapsulate safety, mobility, and accessibility into one roadway.

Our designers have incorporated complete streets elements both onto new facilities and into existing corridors during rehabilitations. There are many ways to incorporate complete streets elements into Lake County; we have even added them onto streets without the acquisition of any additional right-of-way!

Speaking of adding space...We moved into a new office this summer because we outgrew our original location in less than two years! Our Florida office continues to add talented transportation planning and design professionals, experienced in delivering safety, efficiency, and accessibility improvements. We have the capacity to deliver high-quality transportation improvement projects to Lake County, and we look forward to working with you.

Steven J. Davidson, PE
Executive Vice President
American Structurepoint, Inc.

FIRM PROFILE / FIRM HISTORY

With 550 experts working in-house across 11 disciplines, American Structurepoint's award-winning team understands how to successfully move your project from concept to completion. We provide a wealth of experience and resources dedicated to helping you make your vision a reality. Since opening our doors in 1966, our mission has been to improve quality of life through our commitment to communities. American Structurepoint's Florida team comprises 13 multidisciplinary professionals, and they work locally from our design center in Tampa.

This office provides innovative and progressive full-service engineering and transportation services, with experience delivering traffic impact studies, PD&E studies, corridor analysis, signal warrant analysis, safety studies, S&PM, signal, lighting, and intersection design. Our Florida team is fully supported by the robust resources from all of American Structurepoint's design centers throughout the US, and our company is consistently ranked as a national Top 200 Design Firm by *Engineering News-Record*.



CERTIFIED MINORITY BUSINESS ENTERPRISE OR DISADVANTAGED BUSINESS ENTERPRISE

American Structurepoint is neither a certified minority business enterprise nor a disadvantaged business enterprise.

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COMPLETED ATTACHMENT 2 – REFERENCE FORM

ATTACHMENT 2 – REFERENCES FORM

21-0940

List no more than five projects which best illustrates qualifications relevant to the Solicitation. References must be less than five years old. LIST no more than two LAKE COUNTY GOVERNMENT PROJECTS (past, current, prime, and subcontractor) FIRST.

American Structurepoint, Inc.

PROJECT NAME: Bonita Springs Traffic Engineering Services

Agency: City of Bonita Springs

Address: 9101 Bonita Beach Road

City, State, Zip code: Bonita Springs, Florida, 34135

Contact Person: Matt Feeney

Title: Assistant City Manager

Email: matt.feeney@cityofbonitasprings.org

Telephone: 239.949.6246

Project Cost: Task 1: \$44,000 (fee)

Contract Start and End Dates: 09/2019 - present

SCOPE of Project (list tasks, outlines or descriptions of items): STA 01 Pennsylvania Avenue Traffic Calming | American Structurepoint prepared a traffic calming report on Pennsylvania Avenue in a residential community. Research included speed counts and gathering information from City police and public works based on recent fatalities. American Structurepoint's traffic engineers reviewed crash reports and speed data, along with field review observations and correlated them with potential options to reduce vehicle speeds along this corridor. They also collaborated with the City on recommendations and a presentation to the City for stakeholder buy-in. STA 02 Terry Street Roundabout Review | American Structurepoint's traffic engineers evaluated the safety and operational performance at the Terry Street and Old 41 roundabout, due to crash and delay concerns posed by the City and the public. They reviewed crash reports, speed data, the original design plans, and conducted a field review. They compiled anecdotal information from users and observed traffic backups occurring at and through the roundabout. Our engineers collaborated with the City on recommendations and presented their findings to the City in a technical memorandum and presentation to the City Council. Recommendations included basic, easy-to-implement striping changes to more complex geometric design changes to the roundabout to enhance operations and improve safety.

PROJECT NAME: City of St. Petersburg Multimodal Consulting Services

Agency: City of St. Petersburg

Address: 175 Fifth Street N.

City, State, Zip code: St. Petersburg, Florida, 33701

Contact Person: Evan Birk

Title: Engineer

Email: evan.birk@stpete.org

Telephone: 727.551.3499

Project Cost: Task 1: \$19,000 (fee)

Contract Start and End Dates: 03/2021 – 07/21

SCOPE of Project (list tasks, outlines or descriptions of items): American Structurepoint is providing a wide range of multimodal transportation planning and design services for the City of St. Petersburg's roadways. Tasks may include systems planning for bicycle/pedestrian pathways and complete streets master plans, evaluation and conceptual design of corridor traffic calming and multimodal enhancements, and final design of roadway, bicycle/pedestrian, and intersection improvements. A current task involves planning and designing bicycle lanes for Central Avenue from 58th Street North to 31st Street North. Our work includes evaluating travel speeds, assessing lane widths and available pavement areas, and designing dedicated bicycle lanes and shared lanes. These new lanes will meet design standards set by FDOT, the Florida Greenbook, the City of St. Petersburg, and the Manual on Uniform Traffic Control Devices (MUTCD).

PROJECT NAME: Traffic Signal Retiming

Agency: City of Bloomington

Address: 401 N. Morton St., Suite 130

City, State, Zip code: Bloomington, IN, 47404

Contact Person: Neil Kopper

Title: Sr. Project Engineer

Email: koppern@bloomington.in.gov

Telephone: 812.349.3913

Project Cost: \$220,000 (fee)

Contract Start and End Dates: 12/2015 – 12/2017

SCOPE of Project (list tasks, outlines or descriptions of items): As part of this citywide signal retiming project, American Structurepoint developed traffic signal timing information for 84 traffic signals (68 within coordinated signal systems and 16 isolated intersections). New timings were developed and implemented along eight coordinated systems throughout the city, which required cross-coordination at multiple locations along each corridor. American Structurepoint conducted a field inventory for all of the study intersections to determine existing conditions and develop a comprehensive list of the corridors to be retimed. The City's Aries zone manager software was used to upload the existing controller databases at the locations where possible, while the remaining databases were uploaded in the field. Based upon the information from the field inventory, seven-day machine tube counts were collected along each corridor, with the locations determined based upon the number of intersections per corridor. This information was analyzed to determine the proposed corridor pattern operating times. Turning movement counts were collected during this same time period to ensure accuracy of the data and eliminate delays due to processing times. Basic controller timings were developed for all coordinated and uncoordinated signals to ensure they were in compliance with the current requirements. Special attention was paid to the pedestrian timings, yellow change, and all-red intervals to ensure they were meeting (or exceeding) the recommended times. During this step, intersection operations were evaluated to determine whether alternate phasing or changes to pedestrian operations were recommended, and results were reported to the City. During the initial phase, it was determined that two of the City's primary corridors were operating in free mode during the overnight period without any actuation or coordination, causing unnecessary delay. At this point, it was determined that the unusual step of providing 24-hour coordination would be incorporated to eliminate unnecessary stops along these corridors. The City's primary goal for this study was to reduce vehicle progression speed while optimizing travel throughout, which was achieved

through innovative signal timing methods. Additionally, creative programming methods were used to reduce the impacts of the high school release on the surrounding roadway network while reducing the amount of time it takes to clear the school buses and exiting student traffic. Throughout the course of the project, American Structurepoint worked side by side with the City of Bloomington. As a result of our work on this project, American Structurepoint is now providing on-call traffic services for the City of Bloomington.

PROJECT NAME: Red Line Bus Rapid Transit (BRT)

Agency: City of Indianapolis

Address: 200 East Washington Street, Suite 2042

City, State, Zip code: Indianapolis, Indiana, 46204

Contact Person: Nathan Sheets

Title: Assistant Administrator

Email: nsheets@indygov.org

Telephone: 317.327.8481

Project Cost: \$96,300,000 (construction cost)

Contract Start and End Dates: 08/2015 – 10/2017

SCOPE of Project (list tasks, outlines or descriptions of items): The Indianapolis Public Transportation Corporation (IndyGo) brought the benefits of improved transit to the residents of central Indiana. The operation plans optimize transit service efficiency by introducing the country's first fully electric Bus Rapid Transit (BRT) that will provide frequent, fast, and reliable service and redesign existing service, and leveraging transit signal priority (TSP) and intelligent transportation system (ITS) infrastructure. Phase 1 of the project is a 13.6-mile segment connecting the University of Indianapolis to Broad Ripple through the Downtown Transit Center. American Structurepoint, as the design partner for CDM Smith, provided many key components for the delivery of the project, including land acquisition and right-of-way management. American Structurepoint provided traffic capacity analysis, simulation modeling, and design of construction and bid plans for 50+ traffic signal modifications along the BRT corridor.

PROJECT NAME: FPID 431922-1, SR 44 at Kepler Road Roundabout, FDOT District 5

Agency: Florida Department of Transportation

Address: 719 South Woodland Blvd

City, State, Zip code: DeLand, Florida, 32720

Contact Person: Todd Helton

Title: Consultant Project Management

Email: todd.helton@dot.state.fl.us

Telephone: 386.943.5207

Project Cost: \$4,650,000 (est. construction cost)

Contract Start and End Dates: 06/2019 – 05/2021

SCOPE of Project (list tasks, outlines or descriptions of items): In addition to project management and oversight of project deliverables, American Structurepoint is providing roadway, maintenance-of-traffic, and signing/pavement marking design, traffic operational and

safety analysis, and public involvement services for the project. The project includes a new 2-lane roundabout and approximately a quarter mile of roadway widening to install a two-way left-turn lane on SR 44. As an urban principal arterial, SR 44 is a critical roadway serving as an emergency evacuation route and significant commuter corridor between the City of DeLand and I-4. As such, the roundabout will be constructed under traffic resulting in complex maintenance-of-traffic design.