STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

PROFESSIONAL SERVICES LETTER OF RESPONSE

375-030-22 **PROCUREMENT** 02/14

Advertisement No.: 15142	DOT FM Number : 419243-2-32-01	
Project Name: US 27 from Highla	ands County Line to CR 630A	
Consultant's Name: Faller, Davis	& Associates, Inc.	

 City:
 Tampa
 State:
 FL
 Zip:
 33607

Proposed responsible office location for consultant: Tampa

Street Address: 5525 West Cypress Street, Suite 300

Contact person: Ken Muzyk, Jr., PE Phone: 813.261.5136

Contact email: kmuzyk@fallerdavis.com

Faller Davis & Associates, Inc (DBE)

Please provide the following information:

- Proposed approach and understanding of critical issues.
- Relevant project experience Similar type of work experience.
- Other content provided by firm.
- Proposed key personnel and their proposed roles (do not include resumes).

Consultants: Please be aware that all font (including in graphics, tables, and captions on photos) must be standard Arial Narrow, 11 point, single line spacing with no modification of font or spacing allowed. One half inch clear margin on all sides must be maintained on all pages. Character styling such as use of color, bold, and italics is allowed. It is the Consultant's responsibility, due to font and format restrictions within this Form, to work within the constraints of the form and its format. After pasting your letter into this Form, highlight all text and ensure the font size of Arial Narrow, 11 point was retained. Recreation of the Form in another software application to modify the Form format is not permitted. This Form works best when saved with a .docx extension. The page layout may be modified to add columns, tables, graphics, and photos. All graphics and photos must be created in a clean, blank word document and the "text wrapping square" option applied before cutting and pasting into this Form. Use of a table is recommended for text boxes. Once your content is inserted, delete any additional blank pages that are generated by pressing your delete key after the last word in the Letter of Response.

*Please retain the source document as it may be requested at a later date in the procurement, to verify adherence with aforementioned restrictions.

Note: You may begin typing on this page.

spend your time on other important tasks because we are with nearly 20 in-house highway and drainage staff. experts in preparing construction plans that add capacity US 27 is a major north/south corridor in the Heartland of Florida and within the existing right-of-way (R/W). Our SR 64 project that was is part of the SIS, an evacuation route, and noted as both the Claude recently built is similar to this concept on US 27, including piped Pepper (US Representative) and Purple Heart Highway with high

Faller Davis (FDA) will give you peace of mind and utmost swales and utility avoidance within a narrow border area with confidence that we are the right choice because we have a sidewalk. You will be well informed to report zero negative float significant amount of District 1 reconstruction experience and at the monthly production meetings because we are a have assembled the most qualified team for this nearly nine responsive, proactive firm and are properly staffed for the mile project. Ken Muzyk, Jr., PE, will be the Project Manager (PM) project size. We are committed to a high level of customer service and has over 28 years of experience designing major and minor based on quick response times and proactive management and roadway projects, including major arterial reconstruction. Tammy design cultures. We have carefully assembled a team that has the Kreisle, PE, will be the Drainage EOR and the Deputy PM. **You can** available capacity to produce this project within normal time frames

truck traffic. This the first of three segments and starts from the recently completed six-lane roadway at the Highlands County Line to north of CR 630A. The intent is to widen US 27 from four-lanes to six-lanes to improve capacity.

We reviewed the Draft US 27 PD&E Study documents including

the typical section package, RRR plans including one that FDA prepared within the same limits, and performed a field review. We interviewed FDOT TRC members and listened to their concerns. ROADWAY - The proposed typical section is a six-lane divided rural roadway with a 40' inverted median which re-uses the existing four-lane roadway (originally widened in 1975), with widening to the outside and collecting stormwater runoff in adjacent swales. Twelve foot travel lanes and eight foot shoulders with five feet paved on the outside will be provided due to the projected low volume AADT. The posted speeds vary from 60 to 65 MPH with a recommended design speed of 70 MPH. acceleration/deceleration lanes installed in 1997 will be replaced at all right turn lane intersection locations including keyholes. We will analyze the existing cross slopes and determine the milling depths required across each travel lane independently to correct cross slope. This is the process that we used on I-75 which nearly eliminated overbuild resulting in substantial cost savings.

The superelevation rates on all three horizontal curves were corrected during the recent resurfacing. There are two separate locations, approximately a ½ mile long each on the east side where the existing R/W is less than required for the 36' horizontal clearance. In those areas we will consider three options: shifting the alignment to the west a minimum of four feet (\$306K), installing guardrail (\$106K), or obtaining a Design Variation (DV) for horizontal clearance (\$0K). The second and third options require that the current border width DV be amended. Upon NTP, our first task will confirm that the improvements on the east side will fit within the existing R/W using the RRR survey. We will connect to the recently completed six-lanes to the south and transition back to the existing four-lanes north of the CR 630A intersection.

There are a total of three crest and sag vertical curves that are deficient. For the sag vertical curves, we recommend a DV at MP 0.350, correction to standards by overbuild at MP 4.214, and a Design Exception (DE) at MP 4.966 (CSX RR bridge vicinity). For the crest vertical curves, we recommend a DV at MP 2.614 (SR 17 intersection), a DV at MP 4.347, and a DE at MP 4.797 (CSX RR Bridge). The DEs are recommended due to the limited number of accidents and the substantial cost for correction.

The driveway connections on the right side may extend beyond the existing R/W due to the narrow border width. Driveway half sections will be included in the plans and license agreements are anticipated in accordance with Design Bulletin 14-08.

Sidewalks will be considered within the urban area one mile buffer which occurs in the first 1.2 miles (Sebring-Avon Park) and between MP 3.4 to MP 9.6 (Frostproof). We recommend including sidewalk only in the urban clusters where there are pedestrian generators and attractors as follows: within development limits on both sides from MP 4.99 to MP 5.33 (Sun Ray Area) and at the US 98 intersection including the SW and NW quadrants.

KEY PERSONNEL

Project Manager - Ken Muzyk, Jr., PE

Deputy Project Manager/Drainage - Tammy Kreisle, PE

Quality Control - Gus Hunter, PE

Roadway/MOT - Mark Bayer, PE

S&PM/Lighting/Signalization - Mike Oates, PE, PTOE Utility Coordination/Public Involvement/Specifications -

Desiree Davis, PE

PD&E*/Environmental/Permitting - Nicole Cribbs, CE SUBCONSULTANTS

Horizon (SBE) - Structural Design - Simon Hagedoorn, PE
Dewberry - R/W Surveying/Mapping - Bill Hinkle, PSM; Peer
Review/Constructability/Bidability - Kevin Knudsen, PE
CivilSurv (DBE) - Field Surveying - Ken Glass, PSM
Collins Survey (DBE) - R/W Mapping Peer Review/Title
Searches - Dianne Collins, PLS

IF Rooks (SBE) - Photogrammetry - Ike Rooks, PSM Tierra (DBE) - Geotechnical - Larry Moore, PE; Contamination - Don Polanis, CGC, PSSC

LA Design (SBE) - Landscape - Rachel Rodgers, ASLA, RLA

Cardno TBE - SUE - Jerry Comellas, Jr., PE

KNK Engineering (SBE) - Electrical - Kathy Giang, PE Adams Traffic (SBE) - Traffic Counts - Nancy Adams, PE

The FDA Team is pre-qualified in all required work groups and we commit to 80% DBE and 12% SBE utilization.

* DBE Under-Utilized work Group RELEVANT PROJECT EXPERIENCE

- SR 64 from Carlton Arms Boulevard to West of I-75, FPID 416120-1-52-01, PM Ray Porter
- SR 78 from Burnt Store Road to Chiquita Boulevard, FPID 413695-1-52-01, PM Kevin Ingle, PE
- I-75 from Toldeo Blade Boulevard to Sumter Boulevard, FPID 413044-3-52-01, PM Kati Sherrard, EI

US 27 is Access Class 5 which allows both full and signalized intersections at ½ mile spacing and directional openings at ¼ mile spacing. There are numerous established full and directional median openings. Existing full openings to remain will include left turn lanes in both directions and median openings will be properly aligned with side streets and driveways. Truck bulb-outs for u-turns will be provided at reasonably spaced locations in the corridor considering R/W and drainage constraints due to high truck traffic. TRAFFIC - Audible pavement markings will be provided. Due to limited sight distance, we will provide flashing beacon Signal Ahead warning signs on the approaches to SR 17. The paved shoulders will be marked as bicycle lanes since large portions of the project are within the urban area one mile buffer. The existing signals at SR 17 and US 98 will be replaced using strain pole signal supports, box span configurations, and Polk County preferences. We will prepare a signal warrant analysis at the CR 630A intersection. A Lighting Justification Report will be prepared and will consider both high pressure sodium and LED fixtures for potential cost savings. At a minimum, the intersection lighting will be replaced at US 98 and CR 630A and lighting added at SR 17. Formal filing for Obstruction Landing Airport located NW of CR 630A.

MOT - US 27 will be built in three phases: mill and resurface the existing roadway in Phase I; widen, bridges, drainage, and sidewalk in Phase II; and access management median changes in Phase III. Lane closures will be in accordance with the District 1 Lane Closure Policy. The proper notes will be included as US 27 is used by Polk ENVIRONMENTAL - You can be confident that permitting is County school busses.

STRUCTURES - For all bridge options, widening will be performed only on one side of each structure and the approach alignment adjusted accordingly. Guardrail connections and traffic railings will be updated to current standards. Lake Streety Canal - Inside median widening will be considered to minimize long term maintenance issues associated with the compressible subsurface soil layers and to reduce cost. This concept provides the widened approaches in areas where overburden has been in place since the original construction, reducing the surcharge height and duration, and eliminates retaining walls to contain fill slopes within the existing R/W. CSX RR - Outside widening will be considered to avoid issues with existing battered piles at intermediate bents to maintain the existing horizontal clearance. We will evaluate both FIB-36 and AASHTO Type II beams to maintain the existing vertical clearance. Outside piles will be battered to match existing, avoiding reduction of horizontal clearance and crash walls will be designed to protect the pile bents. DVs will be provided for the existing substandard horizontal/vertical clearances.

DRAINAGE - The project is within the Kissimmee River - Below Lake Hatchineha Watershed under SWFWMD's jurisdiction. The outfalls lead to the Lake Livingston (WBID 1730F) and Lake Clinch (WBID 1706A) sub-basins. Lake Clinch (WBID 1706) is impaired for nutrients (TSI) and since we will not be discharging directly, the pre versus post pollutant loading analysis is not required. Florida House Bill 599 eliminated treating offsite flow, which allows a single conveyance feature for dry treatment and attenuation. The 14 drainage basins will require treatment and attenuation for the new impervious area using the DCIA as compensatory treatment and attenuation within the same sub-basins. We agree that linear swales within the R/W, as indicated in the PD&E, can provide sufficient volume to provide treatment, attenuation, and floodplain compensation (two impacted floodplains). The seasonal high groundwater levels vary from ½ foot to greater than ten feet, and the soils are predominantly sandy (A-3/A-2-4) with hydraulic conductivity rates ranging from 14 to 40 feet/day, all conducive to dry treatment. During the pond siting phase, further verification of the PD&E concept of treatment, attenuation, and floodplain compensation within the existing R/W will be performed. The existing roadway drains to roadside swales and outfalls to the wetland systems associated with Lake Livingston, Lake Streety Canal, and other drainage swales that carry the runoff to the ultimate outfalls. The proposed roadway runoff will be collected and conveyed via a combination of open swale systems (west side) and shallow swale/pipe systems (east side) to the existing outfalls. There are ten cross-drains, Lake Streety Canal bridge, and the Clinch Creek bridge culvert. The cross drains will be video challenging project.

Evaluation/Airport Airspace Analysis is not required for the Ridge inspected for structural integrity and recommendations provided for repair or replacement. Predominantly on the east side and at select locations on the west side (including the bridge culvert), the existing cross drain endwall locations will remain and guardrail provided due to the narrow border width. A bridge hydraulic report will be prepared for the bridge widening at Lake Streety Canal.

> not on the critical path because we have in-depth knowledge of the threatened and endangered (T&E) species and listed plants as we were involved in the surveys for the US 27 PD&E study. We thoroughly understand the implications of the T&E species present which include sand skinks, blue-tailed mole skinks, the Florida Scrub Jay, six Federally-listed plants, two State-listed plants, and gopher tortoises. The project is also within the core foraging area of three Wood Stork rookeries and provides suitable foraging habitat. The five acres of estimated wetland impacts will require an environmental resource permit (ERP) from SWFWMD and USACE. The project is within the Kissimmee River ERP Basin which currently has no private mitigation bank option. The PD&E identified a 60-acre site suitable for wetland mitigation restoration, enhancement, and creation. The site is targeted for acquisition by the FDEP Florida Forever program as an "essential remaining parcel" within the Lake Wales Ridge Ecosystem project. Early and reliable coordination with the agencies is essential to the schedule for approval of a permittee-responsible wetland mitigation site. A gopher tortoise relocation permit from FWC will be required.

> **UTILITIES** - The utility coordination process will be streamlined because our experience preparing the RRR plans has given us a complete picture of the utilities having worked directly with them as the Utility Coordination Manager on other projects. Florida Gas Transmission's (FGT) has a six inch/eight inch pipeline on the west side for the majority of the corridor including 3,500' of six inch lateral serving Sebring on the east side near US 98. We are well aware of the 2013 Agreement and Global Settlement with FGT and will do our best to avoid conflicts. Other facilities include: Gulfstream Natural Gas (30" natural gas transmission line crossing US 27 at Bell Road); Central Florida Gas and TECO/Peoples Gas (four inch on east/west sides for long segments); Polk County (multiple wastewater and water mains ranging from six to eight inches); Duke Energy (12 kV overhead electric distribution line on the west side underhung with Comcast Cable); CenturyLink (BFO on the east side); and Verizon (BT and BFO on alternating sides). QUALITY CONTROL (QC) - QC at FDA is known as the "Quality Program" and is centered on the day-to-day activities and tasks associated with directing, supervising, and checking the work of all elements involved in a project. It has several main components that include the Project Work Plan, Project QC Plan, QC and Assurance Process. Quality Assurance (QA). QC Review Procedures, and tracking and documenting QC and QA Reviews. An independent peer review and constructability/bidability review will be performed on each of the critical deliverables.

> **CLOSING** - We respectfully request the opportunity to further demonstrate our qualifications and approach to this exciting and

Prequalification of Prime Consultant and any proposed Subconsultants by advertised type(s) of work:

	• • •	Project Advertised Major & Minor Work Types												
Consultant Name		2.0	3.2	4.1.1	4.1.2	6.1	6.2	7.1	7.2	7.3		DBE	SB	UU
Prime	Faller, Davis & Associates, Inc.	\boxtimes	\boxtimes			\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes				\boxtimes
	Horizon Engineering Group, Inc.			\boxtimes	\boxtimes								\boxtimes	
	KNK Engineering Consulting, Corp. (Electrical)								\boxtimes				\boxtimes	
Subconsultants														
ารแ														
ooqr														
รเ														

SB = Small Business

UU = Under-utilized work type; subconsultant is fulfilling an under-utilized work type

Prequalification of Prime Consultant and any proposed Subconsultants by advertised type(s) of work:

		Project Advertised Major & Minor Work Types												
Consultant Name		8.1	8.2	8.3	8.4	9.1	9.2	9.3	9.4.1	9.5	15.0	DBE	SB	UU
Prime	Faller, Davis & Associates, Inc.											\boxtimes		
	Dewberry Engineers Inc. (Peer Review/ Constructability/Bidability)	\boxtimes	\boxtimes		\boxtimes									
	CivilSurv Design Group, Inc.	\boxtimes	\boxtimes									\boxtimes		
	Collins Survey Consulting LLC (Mapping Peer Review/Title Searches)				\boxtimes							\boxtimes		
	I.F. Rooks & Associates, Inc.			\boxtimes									\boxtimes	
	Tierra, Inc.					\boxtimes	\boxtimes	\boxtimes	\boxtimes	\boxtimes				
	L.A. Design, Inc.										\boxtimes		\boxtimes	
	Cardno TBE (SUE)													
	Adams Traffic, Inc. (Traffic Counts)												\boxtimes	
ıts														
Subconsultants														
nsu														
ogr														
งิ														

SB = Small Business

UU = Under-utilized work type; subconsultant is fulfilling an under-utilized work type