

Consultant Services Authorization

Firm	HDR Engineering Inc.					
Master Agreement No.	22-087					
CSA No.	22-087-01					
Project Name	CR54 (Ronald Reagan Pkwy) at May Fair Blvd Intersection Improvements					
Project Description	Design a new mast arm traffic signal system to control the intersection which will include full pedestrian features to accommodate crosswalks					
Projects Exhibits and Attachments	Exhibit "A"- Scope of Services Exhibit "B"-Fee Schedule (Master Agreement) Exhibit "C"-Reimbursable Cost Schedule Exhibit "D"-Insurance Documents					
Duration (in days)	through completion of construction					
Compensation	Total Cost Not to Exceed: \$ 166,978.03					
Special Contract Conditions	NONE					
Insurance Requirements	Professional Liability					
Liquidated Damages	\$ <u>0</u> Per Day					
Budget Source/Availability	14971.540152101.5666000.5400235					
IN WITNESS WHEREOF,	the parties hereto have executed this CSA on this day of, 20					
Attest: STACY M. BUTTERFIEL	POLK COUNTY, a Political subdivision of the State of Florida					
Ву:	By:					
Deputy Clerk	Chairperson					
Data Approved by Doords	Board of County Commissioners					
Date Approved by Board:_	Review as to form and legal sufficiency Sangua B. How 5/2/23 County Attorney's Office Date					
	HDR Engineering Inc.					
Attest:	CONSULTANT COMPANY NAME					
	Water & Duta					
Elsa Horasall	Authorized Corporate Officer					
Corporate Secretary	Katie E. Duty, Vice President					
OPT A P	[Printed Name and Title]					
SEAL						
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Date: 04/10/2023

Date: 04 10 2023



Exhibit "A" Scope of Services for

CR 54/Ronald Reagan Pkwy. at May Fair Blvd Signalization Improvements - Design & Plans

General Engineering Consulting Services for Transportation Engineering Contract (Master Agreement #2022-087)

CSA #22-087-01

03/30/2023

I. PURPOSE & BACKGROUND

The purpose of this Exhibit is to define the responsibilities of the **CONSULTANT** and the **COUNTY** in connection with the design and preparation of construction plans and specifications for improvements to the CR 54/Ronald Reagan Pkwy. at Westside Blvd. / Westside Lakes Rd. intersection in Polk County, Florida.

CR 54 is an east-west collector in north-east Polk County that EXTENDS from US 27 to east of US 17. The intersection of CR 54 at May Fair Blvd. is located approximately 1.5 miles west of I-4 and is currently unsignalized with stop-control on the minor south approach (May Fair Blvd.) as indicated in the aerial image below.



CR 54/Ronald Reagan Pkwy, at May Fair Blvd. Signalization Improvements - Design & Plans

COUNTY has requested **CONSULTANT** to provide final design services, construction plans and specifications development support to incorporate the intersection improvements as defined under PROJECT DESCRIPTION. County Push Button Construction Contracting is anticipated therefore the plans and specifications will be condensed and utilize the pay item information specified in the applicable County Push Button Contract(s) to the extent practical.

All improvements are to be within the existing County right of ways. No right of way or easement acquisition is anticipated to accommodate the proposed improvements. The posted speeds on CR 54 and on Westside Blvd. are 45 MPH and 35 MPH respectively. A design speed of 45 MPH is assumed for any required CR 54 roadway improvements.

The roadway, signing & pavement marking and signal design shall be based on the 2018 Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (aka "Florida Greenbook"), FY 2022-23 FDOT Design Standards for Construction and Maintenance Operations on the State Highway System, 2009 FHWA Manual on Uniform Traffic Control Devices and the Polk County Technical Standards Manual (revised 10/2009).

II. PROJECT DESCRIPTION

- Design a new traffic signal system with three mast arms, illuminated internally street name signs and noninvasive signal detectors (if space for inductive loop detection (ILD) is not available) to control the intersection
- Improve existing signage and consider providing advance street name signs on the mainline CR
- Improve/reconstruct existing sidewalks in the immediate vicinity of the intersection and ADA
 ramps as required to accommodate crosswalks on the side street (Stem of T) and crossing
 Ronald Regan Parkway where the connection point is not in conflict with the existing guardrail
- Mill & Resurface those portions of CR 54 and the minor cross streets without impacting existing brick pavers as required to accommodate the new pavement markings for the traffic and pedestrian signal systems
- Perform utility coordination

III. DESIGN PHASE SERVICES

The **CONSULTANT** shall provide complete design services for the project except as specifically excluded in this Scope of Services.

The project will be accomplished under a Professional Services Agreement in phases consisting of 60%, 90%, and 100%/Final submittals for review.

The **COUNTY** will provide all required design and right of way survey information and other available information to the **CONSULTANT** for use in preparing the construction plans.

The **CONSULTANT** shall furnish professional engineering services for the final design and preparation of construction plans and specifications for the subject roadway section.

The CONSULTANT's Scope of Services shall include:

• Preparation of construction plans incorporating the proposed roadway, erosion control, maintenance of traffic scheme, signing and pavement marking and signalization improvements

CR 54/Ronald Reagan Pkwy. at May Fair Blvd. Signalization Improvements - Design & Plans

- Technical specifications support if needed. County Push Button Construction Contracting is anticipated
- Bid item quantities and construction cost estimates
- Post design services

During the design phase, services are to be provided in accordance with the following sections for development of the final construction plans. The **CONSULTANT** shall prepare construction plans for the project limits specified in this Scope of Services.

1) Design and Right-of-Way Survey

COUNTY shall furnish all required design survey data in electronic format as required to complete the project, including but not limited to the following:

- a) Survey baseline alignments
- b) Horizontal and Vertical survey control information
- c) Topographic survey
- d) DTM
- e) Aboveground utilities including locations and elevations of the lowest overhead electric primary distribution and transmission lines at the intersection.
- f) Existing R/W lines and property lines

The **COUNTY** shall furnish the CONSULTANT with copies of existing right-of-way maps within the vicinity of the project.

2) Geotechnical Services

The **CONSULTANT** will provide all geotechnical information required for the project. See attached proposal from Tierra, Inc.

If excavation, boring or otherwise disturbing the right-of-way takes place on COUNTY roads, the CONSULTANT or his Subconsultant shall obtain a County Right-of-Way Use Permit for such work. The PROFESSIONAL or his Subconsultant shall also notify all concerned utilities 48 hours in advance of any activity that may disturb their facilities or require a Maintenance of Traffic (MOT) permit. All work zone traffic control will be performed in accordance with the FDOT's Roadway and Traffic Design Standards Indices 600-660 (Topic No. 625-010-003.C).

3) Subsurface Utility Exploration

- a) CONSULTANT shall furnish Subsurface Utility Exploration services to include designation of selected utilities in the immediate vicinity of the intersection and up to 24 test holes (VVH) per intersection to clear signal mast arm foundation locations and single post sign locations. See attached proposal from McKim & Creed, Inc.
- b) If excavation, boring or otherwise disturbing the right-of-way takes place on COUNTY roads, the CONSULTANT or his Subconsultant shall obtain a County Right-of-Way Use Permit for such work. The PROFESSIONAL or his Subconsultant shall also notify all concerned utilities 48 hours in advance of any activity that may disturb their facilities or require a Maintenance of Traffic (MOT) permit. All work zone traffic control will be performed in accordance with the FDOT's Roadway and Traffic Design Standards Indices 600-660 (Topic No. 625-010-003.C).

CR 54/Ronald Reagan Pkwy. at May Fair Blvd. Signalization Improvements - Design & Plans

4) Roadway Plans Preparation

- a) CONSULTANT shall develop a roadway design and furnish complete and final roadway construction plans for the project to include key sheet, summary of pay items, typical sections, summary of quantities, roadway plan sheets, roadway cross sections at minimum 50-foot increments (to include selected intersecting streets and driveways), traffic control plans, erosion control plans, utility adjustment plans, signing and pavement marking plans, signalization plans and any other incidental details.
- b) **CONSULTANT** shall develop and incorporate the proposed intersection improvements design in coordination with the **COUNTY**.
- c) Construction plans are to be in 11"x17" format. Plan sheets are to be in an acceptable scale (e.g., 1 inch = 40 feet). Key sheets and overall project sheets shall not exceed a scale of 1 inch = 200 feet. See "Submittals and Design Reviews" for specific plans submittal information.

5) Drainage Design

No drainage improvements are required, anticipated or included in this Scope of Services.

6) Utility Coordination

Utility Coordination services for all existing utilities include:

- a) The CONSULTANT is responsible for coordinating its design work with the public and private Utility Agency/Owners (UAOs) having existing and/or planned facilities within the limits of the project. Prior to the 60% complete design phase, CONSULTANT shall notify by letter and email, all public and private UAOs that may have utilities within the project limits. Notification shall include a description of the project and an outline of the design schedule. Electronic copies of complete design drawings are to accompany the contact letter, with a markup Greenline set to be returned to the CONSULTANT with plot of UAO's existing/proposed facilities.
- b) CONSULTANT shall provide the UAOs electronic plan sets at the 60%, and 100% complete design phases. At each design phase, the utility agencies and companies will be instructed to return marked-up plans to the CONSULTANT showing their utility relocation, adjustment and new facilities design, as well as existing utilities to remain per the County's Utility Coordination Manual. The CONSULTANT shall coordinate with the COUNTY to hold a utility coordination meeting with required attendance by the UAOs to review and resolve any possible utility conflicts or related concerns. The CONSULTANT shall provide the UAOs a minimum of two weeks notice for the coordination meetings.
- c) CONSULTANT utility coordination responsibilities shall continue throughout the design process to assist the COUNTY with resolving utility conflicts. Any utility design services for new facilities or the proposed relocation and adjustment of existing facilities are not included in this scope of services nor will be the responsibility of the CONSULTANT. CONSULTANT responsibilities are to incorporate the mark-up information provided by the UAOs on the roadway plans.

Possible relocation/adjustments of the existing Duke Energy distribution lines located on the north side of CR 54 is anticipated to avoid conflict with the new mast arm signal structures.

CR 54/Ronald Reagan Pkwy. at May Fair Blvd. Signalization Improvements - Design & Plans

7) Permitting Services

No SWFWMD permitting for these intersections improvements is required, anticipated or included in this Scope of Services.

8) Signing & Pavement Marking Plans

CONSULTANT shall develop a signing and marking design and prepare signing and pavement marking (S&PM) plans. Plans shall be prepared in accordance with all documents, standards, and manuals noted within this Scope of Services. CONSULTANT shall prepare a complete set of Signing and Pavement Marking Plans that will be integrated with the roadway and signal plans. The S&PM sheets shall include the following: Key Sheet, Tabulation of Quantities, Project Notes/Pay Item Notes, Plan Sheets, and Special Details (if required).

Pavement markings on all roadways shall be thermoplastic. Pedestrian crosswalks shall be provided to cross all legs of the intersection. The S&PM design shall be limited to modifications to existing markings at the intersection and approaches to accommodate the proposed signal operation. S&PM plans shall also include advance street name signs along CR 54/Ronald Reagan Pkwy. approaching the new signal.

9) Signalization Plans

CONSULTANT shall develop a mast arm signalization design and prepare Signalization plans. **CONSULTANT** shall prepare signal pole foundation and mast arm designs (3) for the required signalization utilizing applicable FDOT design standards and manuals. Plans shall be prepared in accordance with all documents, standards, and manuals noted within this Scope of Services. **CONSULTANT** shall prepare a complete set of Signalization Plans that will be integrated with the roadway and S&PM plans. The signal sheets shall include the following: Tabulation of Quantities, Project Notes/Pay Item Notes, Signal Plan Sheets, Guide Sign Worksheets, Mast Arm Structures Sheets, Special Details (if required) and Soil Core borings.

The **CONSULTANT** shall prepare traffic signalization plans for the intersection subject to the specific design work as identified bellow.

- a) Construct mast arm pole foundations and structures
- b) Provide LED internally illuminated street name signs
- c) Provide LED countdown pedestrian signals on all approaches
- d) New controller cabinet with UPS will be included
- e) Emergency generator cabinet will not be included
- f) Noninvasive vehicle detection systems if space for ILD is not available
- g) Intersection lighting will not be designed
- h) A Synchro analysis will be conducted to obtain appropriate Signal Operating Plan (SOP) and timings. COUNTY to provide appropriate turning movement volumes to be used in the analysis.

The **COUNTY** will provide all required traffic count information and signal warrant analysis to the **CONSULTANT** for use in preparing the signalization plans.

10) Project Specifications

a) COUNTY's Standard Technical Specifications shall be used for the project along with FDOT Standard Specifications for Road and Bridge Construction, Divisions II and III (as applicable).

CR 54/Ronald Reagan Pkwy. at May Fair Blvd. Signalization Improvements - Design & Plans

FDOT "Big Four" LAP Specifications and/or January 2023-24 FDOT Standard Specifications for Road and Bridge Construction may also be utilized.

County Push Button Construction Contracting is anticipated therefore the specifications provided by **CONSULTANT** will be prepared to supplement the specifications information already included in the County Push Button Contract. The plans and specifications will be condensed and utilize the pay item information specified in the applicable County Push Button Contract(s) to the extent practical.

- b) The **CONSULTANT** will prepare the Technical Specifications as needed.
- c) The **COUNTY** will prepare the overall Project Bid Specifications (if County Push Button Construction Contracting is not utilized).

11) Bid Quantities and Construction Cost Estimate

CONSULTANT shall prepare bid quantities that include all bid items that comprise the project design and utilize the pay item information specified in the applicable County Push Button Contract(s) to the extent practical.

- a) Bid items shall include reference to applicable **COUNTY** and current FDOT Measurement and Payment Items.
- b) Bid proposal sheets included with the Project Bid Specification package shall be prepared by the COUNTY based on the CONSULTANT provided quantities. County Push Button Construction Contracting is anticipated.
- c) Preliminary bid quantities shall be submitted with the 60% design review submittal. The quantities and associated cost shall be submitted in the Engineer's Construction Cost Estimate, which shall be submitted with the 90% and 100%/Final design submittals. Construction costs are to be based on the most current cost data available to the CONSULTANT that applies to the local construction market area.

IV. DESIGN REQUIREMENTS AND PROVISIONS FOR WORK

Design Construction Standards

CONSULTANT shall prepare the design, plans and specifications in accordance with current editions of the following:

- 2018 Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (aka "Florida Greenbook")
- FY 2023-24 FDOT Design Standards for Construction and Maintenance Operations on the State Highway System
- January 2023-24 FDOT Standard Specifications for Road and Bridge Construction, Divisions II and III (as applicable)
- 2009 FHWA Manual on Uniform Traffic Control Devices
- Jan 2012 FDOT Traffic Engineering Manual
- Polk County Technical Standards Manual, revised 10/2009

CR 54/Ronald Reagan Pkwy. at May Fair Blvd. Signalization Improvements - Design & Plans

In case of conflicts between criteria stated in the aforementioned documents, the **CONSULTANT** shall contact **COUNTY** for direction. If it becomes necessary for **CONSULTANT** to deviate from the standard design criteria specified in the documents, the **CONSULTANT** shall formally request authorization from the **COUNTY** by submitting a design variance request that describes the condition and states in writing, the reasons for the deviations. The Request for Design Variance shall be signed and sealed by the Engineer of Record.

Plans Preparation

CONSULTANT shall prepare plans, specifications and other documents that are accurate, legible and complete in detail. Final Submittals shall be made to **COUNTY** in reproducible form and on disk for those items described in this Scope of Services.

Submittals and Design Reviews

CONSULTANT shall prepare plans, specifications and other documents that are accurate, legible and complete in detail. All submittals shall be made to **COUNTY** electronically and in reproducible form unless otherwise requested.

- Plan design review submittals shall occur at the 60%, and 90% and 100%/Final phases.
- **CONSULTANT** shall submit a draft of the specifications with the 90% design review submittal and at the 100%/Final design review submittals.
- Bid quantities and construction cost estimates shall be submitted at the 60% (quantities only), 90% and 100%/Final submittal phases.
- **CONSULTANT** shall submit four (4) sets of (11 x 17) plans and a PDF plan set for each of the following submittals: 60%, 90% and 100%/Final.
- The final design submittal will consist of a digitally signed and sealed (11 x 17) plan set and one copy of digital design files in acceptable AUTOCAD format (Civil 3D 2022).
- CONSULTANT shall respond to the COUNTY's design review comments in writing and
 incorporate revisions into the plans as appropriate. Written responses and plans revisions are
 to be included with the subsequent phase submittal.
- CONSULTANT shall respond to regulatory agencies review comments in the same manner.

Final Design Project Schedule

CONSULTANT's services shall commence upon receipt of written notice to proceed issued by **COUNTY**. **CONSULTANT** shall complete the final design of improvements in accordance with the agreed upon project schedule.

12 months for delivery of all services following receipt of survey info and NTP.

Post Design Services

Post Design Services are support services that may be required to address changed conditions and other services not covered under the original contract or subsequent contract modifications in order to facilitate and satisfactorily complete construction.

These services are not intended to address any **CONSULTANT** errors and/or omissions that may occur. The hours required to complete these tasks may be increased or decreased by the **COUNTY** based on actual project requirements.

The following items are representative, but not limited to, services related to Construction Assistance to be provided to the **CONSULTANT**. During the Construction Phase, it is understood that a **COUNTY DESIGNEE** is to administer the construction contract, perform records management, and carry out resident engineering and inspection services.

CR 54/Ronald Reagan Pkwy. at May Fair Blvd. Signalization Improvements - Design & Plans

The **CONSULTANT** shall furnish the following services:

- Attend the pre-construction conference and assist the COUNTY DESIGNEE as needed.
- Construction Meetings: Assist the **COUNTY DESIGNEE** as needed.
- Review and approve shop drawings (anticipated for mast arm structures and selected signal equipment).
- Plan Interpretations and Requests for Additional Information: Provide written interpretations to the
 COUNTY DESIGNEE of the Contract Documents (Plans, Specifications, etc.) and respond to
 questions concerning unforeseen conditions affecting the projects' design and construction. The
 CONSULTANT shall not direct or infer changes to the construction contract. Changes shall be
 submitted through the COUNTY'S change order procedure.
- Site Visits: Respond to problems encountered during construction and conduct field investigations
 as requested by the COUNTY DESIGNEE. Based on information obtained during visits to the
 construction site, the CONSULTANT shall assist the COUNTY in providing potential solutions to
 the problem encountered including any plan modifications that may be required.
- Field Changes and Plan Revisions: From time to time during construction the CONSULTANT
 may be requested by the COUNTY DESIGNEE to review contractor proposed field changes or
 respond with a recommended solution to remedy specific field situations not covered by the plans
 and specifications. The CONSULTANT shall revise the plans to provide for changes that the
 COUNTY deems necessary after final plan acceptance.
- Meetings and Coordination: During the construction phase, the CONSULTANT shall attend
 weekly meetings held between the CONTRACTOR and COUNTY DESIGNEE as requested.
 Attendance and coordination with other County departments, adjacent property owners and utility
 representatives may also be required.
- Prepare Record Drawings for the roadway and utility improvements that are a compiled representation of the constructed project including changes made during construction and substantially depict the As-Built Survey provided by the CONTRACTOR and/or COUNTY DESIGNEE. In accordance with COUNTY's Record Drawing Review Checklist, CONSULTANT shall submit a draft Record Set and associated CADD files to COUNTY for review and approval prior to submitting a digitally signed & sealed Record Set.

V. CSA #22-087-01 EXCLUSIONS

This scope of services does not include:

- Traffic counts & analysis (provided by COUNTY)
- Signal warrant study (provided by COUNTY)
- Utility design or utility relocation design services
- · Lighting analysis or design
- Survey services (to be provided by COUNTY)
- Construction Engineering Inspection (CEI) services

VI. CSA #22-087-01 FEES

CONSULTANT's not-to-exceed fee to perform this scope of services is \$166,978.03



January 24, 2023

HDR, Inc. 4830 West Kennedy Blvd., Suite 400 Tampa, Florida 33609

Attn: Mr. Reja E. Rabbi, P.E.

RE: Geotechnical Services Proposal

CR 54/Ronald Reagan Parkway at May Fair Blvd.

Signalization Improvements

Polk County, Florida

Tierra Proposal No.: 65-23-043

Mr. Rabbi:

Tierra, Inc. appreciates the opportunity to submit this proposal to provide geotechnical services for the referenced project.

Project Information

HDR, Inc. is currently working with Polk County to develop the design and construction plans for improvements to the CR 54/Ronald Reagan Parkway at Mayfair Boulevard intersection in Polk County, Florida.

Tierra's involvement will be to provide geotechnical engineering services to support the design of three new mast arm traffic signals and milling & resurfacing of portions of CR 54 and the minor cross street.

Geotechnical Engineering Scope of Services

Based on our understanding of the project, the following scope of services is anticipated:

- Review soil information from the "Soil Survey of Polk County, Florida" published by the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS). Review topographic information obtained from the appropriate Quadrangle Map published by the United States Geological Survey (USGS). Review potentiometric information obtained from the "Potentiometric Surface of the Upper Floridan Aquifer in Florida" Maps also published by the USGS.
- 2. Conduct a visual reconnaissance of the project site and complete utility locate requests via Sunshine State One Call.
- 3. Develop a boring and pavement core location plan.
- 4. Obtain Polk County Right-of-Way Use Permit to complete the pavement and test borings.

Geotechnical Services Proposal CR 54/Ronald Reagan Parkway at May Fair Signalization Improvements Polk County, Florida

Tierra Proposal No.: 65-23-043

Page 2 of 3

- 5. Generate and coordinate a Maintenance of Traffic Plan as necessary to complete the geotechnical services
- 6. Execute a program of subsurface exploration consisting of subsurface sampling and field testing consisting of three (3) Standard Penetration Test (SPT) borings to a depth of approximately 30 feet below the existing ground surface.
- 7. Perform up to three (3) pavement cores within travel lanes outside of the intersection. Measurements of the pavement and base thickness will be recorded, and the pavement base and subgrade type will be identified. Measurements will be taken of crack depths, rut depths and cross-slopes at the core locations. Photos will be taken of the pavement cores for reporting purposes. The pavement conditions will be based on Tierra's visual observations only and will be described as good (negligible cracks and rutting) to fair (minimal isolated cracks) to poor (significant pronounced cracks), asphalt patchwork and increased frequency of pavement distress/cracks, depressions and/or undulated/corrugated pavement). All asphalt surfaces will be backfilled/patched following completion of the field coring operations.
- 8. Perform a hand auger boring at each pavement core location to a depth of approximately 5 feet below grade.
- 9. Visually classify and stratify the soil samples in the laboratory using the Unified Soil Classification System (USCS).
- 10. Complete laboratory testing on select samples as verification of our visual classification and to estimate engineering properties.
- 11. Perform corrosion series testing (pH, chlorides, sulfates and resistivity) on soil samples and provide recommendations for the substructure environmental classification.
- 12. Generate soil parameters for use by the Structural Engineer in evaluation and design of the mast arm signal foundations. Provide soil unit weights, internal angle of soil friction and cohesion values.
- 13. Identify subsurface materials encountered within the borings that may impact the design or construction.
- 14. Prepare a geotechnical report that summarizes the course of study pursued, the field and laboratory data generated, subsurface conditions encountered and our geotechnical recommendations.

Geotechnical Services Proposal CR 54/Ronald Reagan Parkway at May Fair Signalization Improvements Polk County, Florida Tierra Proposal No.: 65-23-043 Page 3 of 3

Exclusions

This proposal does not include the following services:

- Survey
- Utility locating services.
- Pavement Evaluation Report
- Pavement Design
- Foundation Design

Geotechnical Engineering Service Fee

The estimated fee to perform the geotechnical engineering services is \$16,593.03 as indicated in the attached Fee Schedule. This fee is based on the site being accessible utilizing standard truck or small track mounted drilling equipment with maintenance of traffic where needed and that no hazardous materials or conditions are on site that will impact our proposed geotechnical scope or schedule.

We appreciate the opportunity to offer our services to you and we look forward to working with you on this project. We will provide you with verbal results and immediately notify you should conditions impacting our scope, schedule or cost of services occur. Should you have any questions in regard to this proposal, please do not hesitate to contact our office.

Respectfully Submitted,

TIERRA, INC.

Joseph R. Antinori, P.E.

Geotechnical Engineer

Larry P. Moore, P.E.

Principal Geotechnical Engineer

Lawy Work

Attachment:

Geotechnical Engineering Services Unit Rate Fee Schedule



PLANNERS

March 30, 2023

Reja Rabbi, PE HDR 4830 W Kennedy Blvd, Suite 400 Tampa, FL 33609

RE: Subsurface Utility Locations at the intersection of CR 54 and May Fair Blvd, Polk County.

Dear Kent:

McKim & Creed is pleased to submit this proposal for subsurface utility location services for the above referenced project.

Scope of Services

The objective of the project is to perform utility designation and test holes in support of the installation of new signals at the intersection.

Our process is as follows.

Designation

- Request utility records from utility agency owners based on the Sunshine 811 design ticket.
- Designate the underground utilities along CR 54, 100 feet east and west of the intersection, from bottom of curb to right of way, and 25 feet east and west of two proposed single post sign locations.
- Create field sketch of designated utilities.
- Survey designated utilities.

Suite 106 Tocc

Locates

Sarazata, FL 34232

551 North Cattlemen Road

- Stake the location of each mast arm.
- Submit Sunshine 811 dig tickets.
- Perform test holes (VVH) by vacuum excavation, to clear up to three (3) mast arm foundations, assume 5 VVH per mast arm = 15 VVH, and two
 (2) single post sign locations, assume 2 VVH per sign = 4 VVH, and

941 379 3404

Fax 941.203 1956

www.mckimcreed.com

CR 54 at May Fair Blvd 3/30/2023 Page 2 of 2

- allowance for utilities found in clearing locations, = 5 VVH. Total = 24 VVH.
- Survey completed test holes from existing onsite control provided by Polk County.
- We have included one (1) day of MOT, to be provided by a sub contractor. If not required this service will not be billed.

Deliverables

AutoCAD file and VVH spreadsheet, including completed test holes.

Our Fee

Our fee is \$18,974.00 inclusive of all labor and materials.

We look forward to working with you on this project. If you have any questions or require additional information, please do not hesitate to call us.

Sincerely,

McKIM & CREED, Inc.

neil Eppig

Neil L. Eppig

SUE Project Manager



EXHIBIT B

RFP No. 22-242: Professional Engineering Services for Roads and

Drainage HDR Engineering, Inc. Exhibit B

Classification	Range of Dire	ct Labor Rates	Range of Hourly Billing Rates		
Classification	From	То	From	То	
Project Manager	\$86	\$99	\$272	\$313	
Chief Engineer	\$99	\$114	\$313	\$361	
Senior Engineer	\$77	\$89	\$244	\$282	
Project Engineer	\$61	\$71	\$193	\$225	
Engineer	\$44	\$51	\$140	\$162	
Chief Designer	\$68	\$79	\$215	\$250	
Senior Designer	\$49	\$57	\$155	\$181	
CADD Technician	\$33	\$38	\$105	\$121	
Engineering Intern	\$36	\$42	\$114	\$133	
Chief Planner	\$98	\$113	\$310	\$357	
Senior Planner	\$62	\$72	\$196	\$228	
Planner	\$38	\$44	\$121	\$140	
Chief Scientist	\$62	\$72	\$196	\$228	
Environmental Specialist	\$33	\$38	\$105	\$121	
GIS Analyst	\$54	\$63	\$171	\$200	
Utility Coordinator	\$39	\$45	\$124	\$143	
Administrative Assistant	\$32	\$37	\$102	\$117	

HDR Labor Multiplier Calculation

Direct Labor	1.0000
Overhead (less FCCM and Direct Expenses)	1.5488
SUBTOTAL	2.5488
Operating Margin (22%)	0.5607
Direct Expenses	0.0496
TOTAL MULTIPLIER	3.1591

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project. County: Agreement:

Consultant Name: HDR Engineering, Inc.

CR 54 @ May Fair Blvd.Intersection Improvements (CSA 22-242-01)
Polk
MSA 2022-087 - Professional Engineering Services for Roads and Drainage

Date: 3/30/2023 Estimator: RR/BB/AA

Staff Classification Total Staff	Hours From	Firm"	. Project General and Project Common Tasks 58	. Roadway Analysis	. Roadway Plans	. Utilities 58	. Structures - Misc. Tasks, Dwgs, Non-Tech.	8. Structures - Miscellaneous 60	9. Signing & Pavement Marking Analysis	20. Signing & Pavement Marking Plans	21. Signalization Analysis	22. Signalization Plans 42	35. Post Design Services	Total Staff Hours 704	Total Staff Cost
Project		\$272.00	23	æ	2	9	0	0	7	7	6	ო	14	79	\$21,488.00
Senior		\$244.00	12	23	6	6	10	15	23	7	59	60	22	177	\$43,188.00
Project Engineer		\$193,00	7	17	41	0	7	12	16	ß	72	7	8	114	\$22,002.00
Engineer		\$140.00	0	g	80	17	o	27	7	က	80	e	0	79	\$11,060.00
Engineer		\$114.00	0	S	က	7	0	0	4	-	9	7	0	28	\$3,192.00
Chief Scientist		\$196.00	3	0	0	0	0	0	0	0	0	0	င	9	\$1,176.00
Chief Scientist Senior Designer		\$155.00	8	24	56	41	0	0	18	7	23	9	9	131	\$20,305.00
CADD		\$105.00	0	ø	10	S	0	7	4	4	18	00	2	76	\$7,980.00
Admin. Asssistant		\$102.00	10	0	0	0	0	0	0	0	0	0	0	10	\$1,020.00
				0	٥	0	0	•	0	0	0	•	0	0	\$0.00
			•	•	0	0	0	•	0	0	0	0	0	0	\$0.00
		ď	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00
	By	Activity	28	95	87	58	17	61	88	59	114	42	55	704	-
Salary	Cost By	Activity	\$12,608	\$17,144	\$15,784	\$9,701	\$3,791	\$10,491	\$16,056	\$5,256	\$20,836	\$7,401	\$12,448		\$131,411.00
Average	Rate Per	Task	\$217.38	\$186,35	\$181,43	\$167.26	\$223.00	\$171.98	\$182.45	\$181.24	\$182.77	\$176.21	\$226.33		\$186.66

Survey Field Days by Subconsultant 4 - Person Crew.

SALARY RELATED COSTS:
OVERHEAD:
OPERATING MARGIN:
FCCM (Facilities Capital Cost Money): Survey (Field - if by Prime) SUBTOTAL ESTIMATED FEE:

\$131,411.00 \$0.00 \$0.00 \$0.00 \$0.00

Subconsultant: Tierra (Geotech)
Subconsultant: McKim&Creed (SUE)
SUBTOTAL ESTIMATED FEE:

15:08:38-04'00'

Date: REJA E. RABBI 2023.03.30

SUBTOTAL ESTIMATED FEE:
Optional Services
GRAND TOTAL ESTIMATED FEE:

\$186,978.03 \$0.00 \$166,978.03

\$16,593.03 \$18,974.00 \$166,978.03

\$0.00

/ day

4-man crew days \$

Page 1 of 1

Fran McAskill

Director

Procurement Division



330 West Church Street P.O. Box 9005, Drawer AS05 Bartow, Florida 33831-9005 Phone: (863) 534-6757 Fax: (863) 534-6789 www.polk-county.net

EXHIBIT C

Board of County Commissioners

REIMBURSABLE COST SCHEDULE

1.	Reproduction Cost		
	A. Regular Copying	. Single Side	Double Sided
	8 ½ x 11 (black & white)	. \$ 0.15/page	\$ 0.25/sheet
	8 ½ x 11 (color)	. \$ 0.30/page	\$ 0.40/sheet
	8 ½ x 14 (black & white)		\$ 0.25/sheet
	8 ½ x 14 (color)	. \$ 0.30/page	\$0.40/sheet
	11 x 17 (black & white)		\$ 0.35/sheet
	11 x 17 (color)		\$ 0.50/sheet
	9 ½ x 24 Single Side Only		
	17 x 22 Single Side Only		
	18 x 24 Single Side Only		
	24 x 36 Single Side Only		
	30 x 30 Single Side Only		
	32 x 34 Single Side Only		
	Other sizes-per square inch		
	Compact Digital Disk		#40.00/
	B. Blueprint Copy		\$10.00/page
2.	Subcontractor Services		Actual Costs
3.	Special Consultants		Actual costs
4.	Computer Services		Non-reimbursable
5.	Travel Expenses		Chapter 112.061, F.S.;
	and further de	etined in the Polk Cour	nty Employee Handbook.
6.	Postage, Fed Express, UPS		Actual Costs
7.	Pre-approved Equipment		
• •	(includes purchase and rental of equipment us	sed in project)	Actual Costs



CERTIFICATE OF LIABILITY INSURANCE

6/1/2023

DATE (MM/DD/YYYY) 4/17/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(les) must have ADDITIONAL INSURED provisions or be endorsed.

If th	SUBROGATION IS WAIVED, subject is certificate does not confer rights to	to the	e ter certi	ms and conditions of the ficate holder in lieu of su	e polic ch enc	y, certain pe lorsement(s	olicies may ı).	require an endorsement.	A stal	tement on	
PRODUCER Lockton Companies						CONTACT NAME:					
444 W. 47th Street, Suite 900					PHONE						
Kansas City MO 64112-1906 (816) 960-9000						E-MAIL					
						38:			-	DOMA #	
	kcasu@lockton.com			-			-34	DING COVERAGE		NAIC#	
nien	DED.						of Londor				
insui Loti	COAD HUK ENGINEERING, INC.			-	INSURE				- 1		
	1917 SOUTH 67TH STREET OMAHA NE 68106			+	INSURE				-		
	OMATIA NE 08100			1	INSURE				-		
					INSURE						
001	VERAGES * CER	TIEIC	ATE	NUMBER: 19506934	INSURE	RF:		REVISION NUMBER:	YYY	XXXX	
TH IN CE	HIS IS TO CERTIFY THAT THE POLICIES IDICATED. NOTWITHSTANDING ANY REFRIFICATE MAY BE ISSUED OR MAY INCLUSIONS AND CONDITIONS OF SUCH	OF IN	ISUF EMEI	RANCE LISTED BELOW HAV NT, TERM OR CONDITION (THE INSURANCE AFFORDS	E BEEI OF AN' D BY	CONTRACT	THE INSURE OR OTHER I S DESCRIBE	D NAMED ABOVE FOR THE	E POLIC	Y PERIOD HICH THIS	
NSR LTR		ADDL S	SUBR			POLICY EFF (MM/DD/YYYY)	POLICY EXP	LIMITS			
	COMMERCIAL GENERAL LIABILITY	Maria	21.11/	NOT APPLICABLE					s XXX	XXXX	
	CLAIMS-MADE OCCUR			NOT ALL DICABLE				THE STATE OF THE SPECIAL STATE OF THE STATE		XXXX	
									s XXX	XXXX	
									s XXX	XXXX_	
	GEN'L AGGREGATE LIMIT APPLIES PER:									XXXX	
	POLICY PRO-							PRODUCTS - COMP/OP AGG	s XXX	XXXX	
	OTHER:								\$		
	AUTOMOBILE LIABILITY			NOT APPLICABLE				COMBINED SINGLE LIMIT (Ea accident)	S XXX	XXXX	
	ANY AUTO								S XXX	XXXX	
	OWNED SCHEDULED AUTOS ONLY AUTOS								S XXX	XXXX	
	HIRED NON-OWNED AUTOS ONLY							PROPERTY DAMAGE (Per accident)	S XXX	XXXX	
	AUTOS CHET				-				s XXX	XXXX	
	UMBRELLA LIAB OCCUR			NOT APPLICABLE				EACH OCCURRENCE	s XXX	XXXX	
	EXCESS LIAB CLAIMS-MADE							AGGREGATE	s XXX	XXXX	
	DED RETENTIONS								s XXX	XXXX	
	WORKERS COMPENSATION			NOT APPLICABLE				PER OTH- STATUTE ER			
	AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?						!	E.L. EACH ACCIDENT	s XXX	XXXX	
	(Mandatory In NH)	N/A						E.L. DISEASE - EA EMPLOYEE	s XXX	XXXX	
	If yes, describe under DESCRIPTION OF OPERATIONS below							E.L. DISEASE - POLICY LIMIT	s XXX	XXXX	
A	ARCH & ENG PROFESSIONAL LIABILITY	N	N	P001412200		6/1/2022	6/1/2023	PER CLAIM: \$2,000,000 AGGREGATE: \$2,000,000.			
DES RE:	CRIPTION OF OPERATIONS / LOCATIONS / VEHICI POLK COUNTY - CSA #22-087-01 - CR54	ES (A)	CORD	101, Additional Remarks Schadul DREAGAN PKWY) AT MAY	e, may be 7 FAIR	e attached if mor BLVD INTER	! ** space is requin SECTION IM!	ed) PROVEMENTS			
CE	RTIFICATE HOLDER				CANO	ELLATION	See Atta	chment			
	19506934 POLK COUNTY, A POLITICAL SUBDIVISION OF ATTENTION: WILLIAM LORENZ 330 WEST CHURCH STREET PROCUREMENT DIVISION; ROO	0		TE OF FLORIDA	ACC	EXPIRATION	N DATE THI	ESCRIBED POLICIES BE CA EREOF, NOTICE WILL B EY PROVISIONS.	NCELLI E DEL	ED BEFORE IVERED IN	
_	BARTOW FL 33830					@ 19	288 2015 AC	ORD CORPORATION, A	All righ	ts reserved	



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 04/17/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER		CONTACT Willis Towers Watson Certificate Center				
Willis Towers Watson Midwest, I	nc.	PHONE (A/C, No, Ext): 1-877-945-7378	FAX (A/C, No): 1-888	-467-2378		
c/o 26 Century Blvd			(AC, NO).			
P.O. Box 305191		ADDRESS: certificates@willis.com				
Nashville, TN 372305191 USA		INSURER(S) AFFORDING COVERAGE		NAIC#		
		INSURER A: Liberty Mutual Fire Insurance	Company	23035		
INSURED		INSURER B: Ohio Casualty Insurance Compa	24074			
HDR Engineering, Inc.		INSURER C: Liberty Insurance Corporation	1	42404		
1917 South 67th Street						
Omaha, NE 68106		INSURER D:				
		INSURER E :				
		INSURER F:				
COVERAGES	CERTIFICATE NUMBER: W28704484	REVISION NU	MBER:			

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

NSR TR	TYPE OF INSURANCE	ADDL	SUBR	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMIT	s	
	COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	\$	2,000,00
	CLAIMS-MADE X OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$	1,000,00
A	X Contractual Liability						MED EXP (Any one person)	\$	10,00
		Y	Y	TB2-641-444950-032	06/01/2022	06/01/2023	PERSONAL & ADV INJURY	\$	2,000,00
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	\$	4,000,00
	POLICY X PRO-						PRODUCTS - COMP/OP AGG	\$	4,000,00
	OTHER:							\$	
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	\$	2,000,00
	X ANY AUTO	ED SCHEDULED Y Y AS2-641-44 DS ONLY AUTOS D NON-OWNED		Y AS2-641-444950-042	06/01/2022	06/01/2023	BODILY INJURY (Per person)	\$	
A	AUTOS ONLY AUTOS NON-OWNED		Y				BODILY INJURY (Per accident)	\$	
						PROPERTY DAMAGE (Per accident)	\$		
								\$	
В	UMBRELLA LIAB X OCCUR						EACH OCCURRENCE	\$	1,000,00
_	X EXCESS LIAB CLAIMS-MADE	Y	Y	EUO (23) 57919363	06/01/2022	06/01/2023	AGGREGATE	\$	1,000,00
	DED X RETENTION \$ 0							\$	
	WORKERS COMPENSATION						X PER OTH-		
С	ANYPROPRIETOR/PARTNER/EXECUTIVE	N/A	Y	WA7-64D-444950-012	06/01/2022	06/01/2022	E.L. EACH ACCIDENT	\$	1,000,00
	OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		-	WA7-84D-444930-012	06/01/2022	06/01/2023	E.L. DISEASE - EA EMPLOYEE	\$	1,000,00
							E.L. DISEASE - POLICY LIMIT	\$	1,000,00

DESCRIPTION OF OPERATIONS/LOCATIONS/VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Certificate Holder is named as Additional Insured on General Liability, Automobile Liability and Umbrella/Excess

Liability on a Primary, Non-contributory basis where required by written contract. Waiver of Subrogation applies on

General Liability, Automobile Liability, Umbrella/Excess Liability and Workers Compensation where required by written

contract and as permitted by law. Umbrella/Excess policy is follow form over General Liability, Auto Liability and

Employers Liability.

Polk County, a Political Subdivision of the State of Florida	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
Procurement Division; Room 150	AUTHORIZED REPRESENTATIVE
Attn: William Lorenzo	
330 West Church Street	Monte for A Legen
Bartow, FL 33830	manden 101 has much

CANCELLATION

BATCH: 2936090

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CERTIFICATE HOLDER

AGENCY CUSTOMER ID:	
1.00 #	



ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

AGENCY Willis Towers Watson Midwest, Inc.		NAMED INSURED HDR Engineering, Inc.			
WIIIIS TOWERS WALSON PHOWEST, INC.		1917 South 67th Street			
POLICY NUMBER		Omaha, NE 68106			
See Page 1					
CARRIER	NAIC CODE				
See Page 1	See Page 1	EFFECTIVE DATE: See Page 1			

ADD	ITIO	NΔI	REM	ARKS

ADDITIONAL REMARKS
THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER:25 FORM TITLE: Certificate of Liability Insurance
RE: Polk County - CSA #22-087-01 - CR54 (Ronald Reagan Pkwy) at May Fair Blvd Intersection Improvements.
Additional Insureds: County and Consultant
Waiver of Subrogation: Polk County
Coverage for XCU is provided under the General Liability policy.
The General Liability policy includes a Cross Liability Clause.

ACORD 101 (2008/01)

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SR ID: 24013110

BATCH: 2936090

CERT: W28704484