

Consultant Services Authorization

Firm Name:	HDR Engineering, Inc.
Master Agreement No.:	22-087
CSA No.:	22-087-03
Project Name:	Carter Rd S @ Eaglebrooke Blvd @ Christina Blvd E
Project Description:	Provide preliminary engineering and final design services including construction plans to support intersection improvements
Project Exhibits and Attachments	Exhibit "A"- Scope of Services for this CSA Exhibit "B"- Current Fee Schedule (Master Agreement) Exhibit "C"- Reimbursable Cost Schedule Exhibit "D"- Professional Liability (Project Specific)
Duration (in days)	370
Compensation (Lump sum or Not to exceed to be identified in Exhibit "A")	Not to exceed \$393,548.40
Liquidated Damages (if applicable)	\$0 _____/Per Day
Budget Source/Availability	10104.540541095.5666000.5400266

IN WITNESS WHEREOF, the parties hereto have executed this CSA on this _____ day of _____, 20__.

Attest:

STACY M. BUTTERFIELD

By: _____

Deputy Clerk

Date Approved by County: _____

POLK COUNTY, a political subdivision
of the State of Florida

By: _____

_____, Chairman

Board of County Commissioners

Review as to form and legal sufficiency

Norah Miller 4/2/2026

County Attorney's Office Date

HDR Engineering Inc

CONSULTANT COMPANY NAME

[Signature]

Authorized Corporate Officer

Jeffrey B. Arms, Vice President

[Printed Name and Title] Date *3/20/2026*
[Signature]

Attest:

[Signature]

03.20.2026

Corporate Secretary Date
Elizabeth C. Hoffman, Assistant Secretary

SEAL

Exhibit "A"
Scope of Services for
Carter Rd. @ Christina Blvd/ Eaglebrook Blvd – Intersection Improvements
General Engineering Consulting Services for Transportation Engineering Contract
(Master Agreement #2022-087)
CSA #22-087-03
2/27/2026

I. PURPOSE & BACKGROUND

The purpose of this Exhibit is to define the responsibilities of the **CONSULTANT** and the **COUNTY** in connection with the preparation of an Intersection Alternative Analysis Report for the intersection of Carter Rd. @ Christina Blvd/ Eaglebrook Blvd in Polk County, Florida.

Carter Rd., Christina Blvd. and Eaglebrook Blvd. are urban collector roadways with posted speeds of 40 mph, 35 mph and 20 mph, respectively. The intersection is currently stop controlled at Christina Blvd and Eaglebrook Blvd as indicated in the aerial image below.



Exhibit "A" Scope of Services
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Carter Rd. @ Christina Blvd/ Eaglebrook Blvd – Intersection Improvements

COUNTY has requested **CONSULTANT** to provide preliminary engineering and final design services including construction plans to support the intersection improvements as defined under PROJECT DESCRIPTION.

Based on signal warrant analysis and crash data provided by **COUNTY**, **CONSULTANT** shall provide traffic counts and prepare the traffic analysis for the intersection and determine the capacity and operational improvements needed to bring the overall intersection performance to an acceptable level of service on all approaches. The **CONSULTANT** will utilize the results of the traffic analysis to develop one (1) conceptual intersection alternative for a signalized intersection design. Upon concurrence from the **COUNTY** on the preferred intersection alternative the **CONSULTANT** will develop construction plans for improvements to the intersection of Carter Rd. @ Christina Blvd/ Eaglebrook Blvd in Polk County, Florida.

Right-of-way is anticipated to accommodate the proposed improvements.

The preliminary roadway, drainage, signing & pavement marking and signal design shall be based on the 2023 Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (aka "Florida Greenbook"), FDOT FY 2025-26 Standards Plans for Road Construction, FHWA Manual on Uniform Traffic Control Devices 11th Edition and the Polk County Technical Standards Manual.

II. PROJECT DESCRIPTION

- Develop one (1) conceptual alternative for the prospective signalized intersection design to include full pedestrian features and excluding bike lanes.
 - Construction cost estimates for this alternative shall be developed.
 - Right-of-way requirements for this alternative shall be determined based on the proposed geometrics. The right-of-way control mapping is provided by **COUNTY**.
 - **COUNTY** shall develop right-of-way cost estimates based on the right-of-way requirements provided by **CONSULTANT**.
- Provide an Intersection Alternative Analysis Report and establish the recommended concept for **COUNTY** approval.
- Design and preparation of a complete set of digitally signed and sealed design drawings and construction contract documents; and incidental engineering services, for the improvements (of the Preferred Alternative) at the intersection of Carter Rd. @ Christina Blvd/ Eaglebrook Blvd in Polk County, Florida.

III. PRELIMINARY ENGINEERING SERVICES – INTERSECTION ALTERNATIVE ANALYSIS

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

The Phase 1 Intersection Alternative Analysis services will be accomplished under a Professional Services Agreement in phases consisting of Draft and 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.

Exhibit "A" Scope of Services
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Carter Rd. @ Christina Blvd/ Eaglebrook Blvd – Intersection Improvements

The **CONSULTANT's** Scope of Services shall include:

Professional engineering services which support the development of an Intersection Alternative Analysis Report for the intersection of Carter Rd. and Christina Blvd./Eaglebrook Blvd. in Polk County, Florida. The **COUNTY** expects the **CONSULTANT** to perform preliminary investigation, engineering conceptual design services including an Intersection Alternatives Analysis with draft and final submittal with concept plans, supporting engineering analysis, calculations, traffic study and other technical documents in accordance with Polk County's policies, procedures and requirements.

Phase 1 - Intersection Alternative Analysis - The **CONSULTANT** shall review obtained traffic data, obtain crash reports from the **COUNTY**, prepare the traffic analysis for the intersection and determine the capacity and operational improvements needed to bring the overall intersection performance to an acceptable level of service on all approaches. The **CONSULTANT** shall utilize the results of the traffic analysis to develop one (1) conceptual intersection alternative for a signal design.

To facilitate evaluation of the conceptual Alternative, the **COUNTY** will provide right-of-way control survey maps and full horizontal and vertical survey.

The **CONSULTANT** shall utilize USDA soils mapping and associated desktop information for preliminary geotechnical needs for the Phase 1 Analysis to support the evaluation of Alternative.

No floodplain impacts or wetland impacts are anticipated to be associated with any of the Alternative evaluated (to be verified via a desktop determination), consequently a SWFWMD Environmental Resource Permit is not anticipated. **CONSULTANT** shall determine the roadway, drainage, environmental and right-of-way impacts to support the evaluation of the Alternative and in support of identifying a Preferred Alternative.

The **CONSULTANT** will summarize these results in a signed and sealed Intersection Alternative Analysis Report.

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

2) Traffic Data Collection/Analysis

Traffic Data Collection: All traffic data collection necessary for the evaluation of the intersection shall be collected by the **CONSULTANT**. A 4-hour Tuesday, Wednesday, or Thursday count at the Carter Rd. and Christina Blvd/ Eaglebrook Blvd intersection will be needed from 6:30-8:30 AM and 4:00-6:00 PM. The count shall separate cars and trucks and include pedestrian and bicyclist counts. In addition, 48-hr approach counts will be collected on all four approaches of the study intersection. All

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counts will be provided to the CONSULTANT in both excel and pdf format. The **CONSULTANT** shall process the count data to determine the existing truck percentages and peak-hour factors.

Existing Intersection Conditions: The **CONSULTANT** shall identify all pertinent physical features defining the existing intersection conditions including, but not limited to, the following:

- Existing Intersection Conditions
 - Intersection geometry
 - Condition diagram
- Major and Minor Streets
 - Functional classification
 - Connectivity
 - Cross section (crown, super elevation)
 - Approach lanes - Alignment - Utilities (overhead, Sunshine design ticket)
- Surrounding Development
- Land Uses
- Pedestrian Generators
- Traffic Control
- Posted Speed / Clear Zone
- Lighting
- Signing & Pavement Markings
- Roadway Pavement Conditions
- Sidewalks & Pedestrian Features
- Bicycle Lanes - N/A
- Transit Facilities
- Adjacent Signalization Intersections
- Ground Level Photographs including views of impacted driveways. The **CONSULTANT** shall review and document existing conditions.

Crash Analysis: The **COUNTY** will provide the **CONSULTANT** with pertinent crash data, in tabular form. The **CONSULTANT** shall review the crash data and verify from County and local sources as needed. Crash data shall be for the most recent five (5) years where data is available. The **CONSULTANT** shall summarize the data to show:

The number of crashes by year and type: Crash severity by year, including the number of fatalities, severe crashes, and injuries

The **CONSULTANT** shall use FDOT's SPICE spreadsheet to predict the number of crashes expected under the proposed Build Alternative.

Traffic Studies: Based on the results of the data collection, the **CONSULTANT** shall perform analyses and develop improvement Alternative. The resulting traffic study shall evaluate and recommend operational and/or physical improvement Alternative.

Signal Warrants: The **COUNTY** conducted a signal warrant analysis that will be referenced and used as needed.

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Development of Future Traffic Volumes: The **CONSULTANT** shall develop design year (2045) AADT traffic volume projections and AM and PM peak-hour traffic volume projections to be used in the operational analysis of the Carter Rd. and Christina Blvd/ Eaglebrook Blvd intersection alternative using a linear annual growth rate. The growth rate may be derived from the latest approved District 1 Regional Planning Model (D1RPM) base year to horizon year model growth, population growth trends, or historical growth trends (if sufficient data is available). The growth rate will be submitted to the **COUNTY** for approval before using it to forecast future volumes. The approach counts will be used as the basis for design year AADT forecasting. The AM and PM peak hour counts will be used as the basis for design year AM and PM peak-hour traffic forecasting. Volume figures will be included in the Traffic Report.

Future Conditions Analysis: The **CONSULTANT** shall analyze one (1) Build Alternative, a signal at the Carter Rd. and Christina Blvd/ Eaglebrook Blvd intersection. Synchro will be used to analyze the signal. This Alternative will be analyzed for the design year AM and PM peak hour scenario for a total of one (1) analysis scenarios. The output will be extracted and summaries for delay and LOS by approach and the overall intersection will be documented in tabular format. The **CONSULTANT** shall also discuss queue storage and capacity deficiencies.

The **CONSULTANT** will identify the minimum necessary lane geometry for each Build Alternative to provide roadway and intersection LOS D or better through the design year. The **CONSULTANT** shall use professional judgment in adjusting parameters in the Build models to optimize the geometric and/or operational characteristics to increase efficiency.

Traffic Report: The **CONSULTANT** shall prepare a Traffic Report section within the Intersection Alternative Analysis Report that documents the data and volumes used, procedures employed, analysis results, and conclusions.

Exclusions: The following traffic analysis items are excluded from this Scope of Services:

- Traffic signal warrant study
- Benefit-Cost analysis
- Opening year or interim year analysis

If Polk County determines that one or more of these services are needed for this study, these will be conducted as part of a Supplemental Agreement to be negotiated separately.

Intersection Alternative Analysis Report: Based on the data collected, analyzed, and evaluated, the **CONSULTANT** shall prepare a signed and sealed Intersection Alternative Analysis Report that presents improvement recommendations to the control and intersection geometry.

The **CONSULTANT** shall submit one (1) draft and one (1) final copy of the Intersection Alternative Analysis Report for review by **COUNTY** staff. A color PDF of the draft and final reports shall be submitted along with copies of files in their source software format.

Count Stations: N/A

Traffic Monitoring Sites: N/A

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3) Planning and Conceptual Design Development

The **CONSULTANT** will develop conceptual intersection documents. These elements may include, but are not limited to:

- a) Develop the estimated design schedule and preliminary construction budget for each alternative.
- b) Perform a limited intersection planning and technical review of the intersection which will include performing a limited scope traffic study, a geometry evaluation, drainage review, pedestrian mobility, transit mobility, and determining expected environmental permits as required.
- c) The traffic analysis will be performed for the existing year and design year conditions.
- d) Land uses and proposed developments will be reviewed for impacts to traffic growth.
- e) County's Capital Improvements Program (CIP) and Long-Range Transportation Plan (LRTP) will be reviewed and summarized. Proposed design work will be consistent with future planned projects, if feasible.
- f) Design for and attempt to meet the requirements of the Americans with Disabilities Act (ADA) given the existing intersection parameters and limitations. Document any exceptions and seek approval from the County to leave conditions as is or to mitigate the non-standard feature.
- g) Drainage analysis and preliminary concept design to support the analysis of the preferred conceptual alternative.
- h) Environmental impacts and permitting requirements assessments to support the analysis of the preferred conceptual alternative.
- i) Produce conceptual drawings, limited to one (1) build Alternative for the intersection, including one signalized intersection concept
- j) Review the property and right of way associated with the intersection.

Following data collection and preliminary investigation, **CONSULTANT** will prepare, at the proper junction, a signed and sealed Intersection Alternative Analysis Report outlining design decisions, examining the:

- a) Addition and/or extension of auxiliary turn lanes at the intersection with signalized intersection concept.
- b) Access Management and Pedestrian improvement considerations.

The Intersection Alternative Analysis Report will include an executive summary stating the rationale for how the recommended option was derived. The **CONSULTANT** shall provide compelling documentation and engineering rationale for the selected design options, including existing and

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predicted conditions, typical sections, right-of-way requirements, environmental impacts, and costs of Alternative. The deliverable is to be provided in draft, and final form.

Phase 2 - Final Design and Permitting — Subsequent design and preparation of a complete set of signed and sealed design drawings, and construction contract documents; and incidental engineering services, for the improvements (of the Preferred Alternative) at the intersection of Carter Rd. @ Christina Blvd/ Eaglebrook Blvd will begin after **COUNTY** concurrence of the preferred design alternative.

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

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 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, signing and pavement marking, signalization, and lighting improvements.
- Technical specifications support if needed.
- Bid item quantities and construction cost estimates

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. Construction plans will be submitted to the **COUNTY** for review in phases consisting of 60%, 90%, and 100%/Final.

The **CONSULTANT** assumes no fiduciary relationship under this scope of services and shall not be held responsible for any duties typically associated with a fiduciary relationship.

Deliverables shall be in the form of Computer Aided Design and Drafting (CADD) compatible with the County's CADD system. The CADD files must include information necessary for engineering and environmental analysis, alternative alignment and design studies. If applicable, plans must be developed utilizing best drafting and plan preparation practices for transportation design projects and must follow FDOT latest Design Manual (FDOT Design Manual - FDM) and CADD Manual.

4) Geotechnical Services

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

- 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.

Exhibit "A" Scope of Services

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- Conduct a visual reconnaissance of the project site and complete utility locate requests via Sunshine State One Call.
- Develop a boring and pavement core location plan.
- Obtain Polk County Right-of-Way Use Permit to complete the pavement and test borings.
- Generate and coordinate a Maintenance of Traffic Plan as necessary to complete the
- geotechnical services
- 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.
- 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.
- Perform a hand auger boring at each pavement core location to a depth of approximately 5 feet below grade.
- Visually classify and stratify the soil samples in the laboratory using the Unified Soil Classification System (USCS).
- Complete laboratory testing on select samples as verification of our visual classification and to estimate engineering properties.
- Perform corrosion series testing (pH, chlorides, sulfates and resistivity) on soil samples and provide recommendations for the substructure environmental classification.
- 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.
- Identify subsurface materials encountered within the borings that may impact the design or construction.
- Prepare a geotechnical report that summarizes the course of study pursued, the field and laboratory data generated, subsurface conditions encountered and our geotechnical recommendations.

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).

5) Project General and Roadway

- 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 (in areas with widening and/or earthwork activities), traffic

Exhibit "A" Scope of Services
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control plans, erosion control plans, utility adjustment plans, signing and pavement marking plans, signalization plans, lighting plans and any other incidental details.

- b) **CONSULTANT** shall develop and incorporate the proposed improvement 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.

Public Involvement - To be provided by **COUNTY**.

Coordination with Local Officials - To be provided by **COUNTY**.

Comments and Coordination Report - N/A

Other Agency Presentations/Meetings: N/A

Joint Project Agreements: N/A

Specification Package Preparation: N/A

Value Engineering: N/A

Risk Assessment Workshop: N/A

Plan Type: **CONSULTANT** shall develop construction plans including, signing, marking and signalization, lighting and other pertinent details. The plan sheets will be plotted at a horizontal scale of 1 inch = 40 feet.

Typical Section: **CONSULTANT** shall develop concept typical sections, as needed, for the roadway intersection. Typical Sections will be included in the conceptual plans or the body of the report.

Preliminary Pavement Design: N/A

Pavement Type Selection Report(s): N/A

Major Intersections/Interchanges: N/A

TTCP Plans: **CONSULTANT** shall provide Level I TCP plans, TCP notes and typical sections.

Temporary Lighting: N/A

Temporary Signals: N/A

Temporary Drainage: N/A

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Design Variations/Exceptions: Determine and list variations / exceptions required for each alternative. No design exception(s) is (are) anticipated.

Design exceptions shall be submitted utilizing Exhibit 14-A of the FDOT Florida Greenbook and follow the format provided under sections 14 E and 14F.

Design exception requests shall be prepared for any situations not meeting current FDOT and/or County requirements, as appropriate. The **CONSULTANT** shall prepare design Exception reports for the purpose of estimating design and construction needs based on initial observations. The **CONSULTANT** shall recommend, to the **COUNTY**, either correction of any deficiencies, or obtaining the appropriate design exceptions in accordance with **COUNTY** procedures.

If any design exceptions are needed, they shall be brought to the **COUNTY'S** attention immediately.

Back of Sidewalk Profiles: N/A

Selective Clearing and Grubbing: N/A

6) Drainage

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

7) Utility Coordination

The **CONSULTANT** is responsible for certifying that all necessary arrangements for utility work on this project have been made and will not conflict with the physical construction schedule.

The **CONSULTANT** should coordinate with **COUNTY** personnel to coordinate transmittals to Utility Companies and meet production schedules.

The **CONSULTANT** shall ensure **COUNTY** standards, policies, procedures, practices, and design criteria are followed concerning utility coordination.

The **CONSULTANT** may employ more than one individual or utility engineering consultant to provide utility coordination and engineering design expertise. The **CONSULTANT** shall identify a dedicated person responsible for managing all utility coordination activities. This person shall be contractually referred to as the Utility Coordination Manager and shall be identified in the **CONSULTANT** proposal. The Utility Coordination Manager shall be required to satisfactorily demonstrate to the **COUNTY** personnel that they have the knowledge, skills, and expertise to perform this work.

The **CONSULTANT's** utility coordination work shall be performed and directed by the Utility Coordination Manager that was identified and approved by **COUNTY's** Project Manager. Any proposed change of the approved Utility Coordination Manager shall be subject to review and approval by **COUNTY's** Project Manager prior to any change being made in this contract.

Utilities anticipated on the project: Fiberlight LLC, Florida Public Utilities, Frontier Communications, City of Lakeland Electric, City of Lakeland Water, City of Lakeland Wastewater, Polk County Utilities, and Charter Communications.

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8) Subsurface Utility Engineering (SUE)

Designation includes two-dimensional collection of existing utilities and selected three-dimensional verification as needed for designation. Location includes non-destructive excavation to determine size, type, and location of existing utility, as necessary for final three-dimensional verification. Survey includes collection of data on points as needed for designates and locates. Includes analysis and processing of all field-collected data, and delivery of all appropriate electronic files.

The **CONSULTANT** shall perform SUE on all locations that include new underground infrastructure or earthwork excavation (i.e. drilled shafts, bridge piles, strain poles, mast arms, miscellaneous foundations, drainage structures, pipe culverts, new ditches, etc.). The expectation is for the **CONSULTANT** to know exactly where all existing underground utilities and infrastructure are located in areas that work will be performed to properly design for any new underground infrastructure or earthwork excavation that will be constructed on the project. **CONSULTANT** shall provide electronic depths with the designates.

A Professional Land Surveyor, registered in the State of Florida, shall sign, and seal the data provided and included in the FDOT Verified Utility Locate Plan Sheets. All information shall be provided in the format requested by the **COUNTY**.

9) Permitting Services

No SWFWMD permitting for this intersection's improvements is required, anticipated or included in this Scope of Services.

10) Signing & Pavement Marking Plans

CONSULTANT shall develop concept level plans for signing and pavement markings during the Preliminary Engineering phase.

- Add 3 "NEXT SIGNAL" excluding the East Leg Eaglebrooke Blvd. for lack of access of the gated community.

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: 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.

11) Signalization Plans

Intersection: The project's existing intersection is 2-way stop controlled. The **CONSULTANT** shall propose conceptual signalization improvements and requirements at the intersection based on traffic data collection, traffic studies, and best engineering practices.

CONSULTANT shall develop a mast arm signalization design and prepare Signalization plans that will be integrated with the roadway and S&PM plans. **CONSULTANT** shall prepare signal pole foundation and mast arm designs (2) for the required signalization utilizing applicable FDOT design

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standards and manuals. 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. Plans shall be prepared in accordance with all documents, standards, and manuals noted within this Scope of Services.

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

- Construct mast arm pole foundations and structures
- Provide LED internally illuminated street name signs
- Provide LED countdown pedestrian signals on all approaches
- New controller cabinet with UPS will be included
- Emergency generator cabinet will not be included
- Noninvasive vehicle detection systems if space for ILD is not available
- A Synchro analysis will be conducted to obtain appropriate Signal Operating Plan (SOP) and timings.

12) Lighting

CONSULTANT shall develop concept level plans for intersection lighting during the Preliminary Engineering phase.

CONSULTANT shall develop a Lighting memo for this project.

CONSULTANT shall develop a lighting design and prepare lighting 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 Lighting Plans that will be integrated with the roadway and signal plans. The Lighting sheets shall include the following: Tabulation of Quantities, Project Notes/Pay Item Notes, Plan Sheets, and Special Details (if required).

DESIGN REQUIREMENTS AND PROVISIONS FOR WORK

Design Construction Standards

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

- 2023 Manual of Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (aka "Florida Greenbook")
- 2025-26 FDOT Design Manual
- January 2025-26 FDOT Standard Specifications for Road and Bridge Construction, Divisions II and III (as applicable)
- FHWA Manual on Uniform Traffic Control Devices 11th Edition
- 2025 FDOT Traffic Engineering Manual
- Polk County Technical Standards Manual
- 2026 FDOT Drainage Manual

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.

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Submittals and Design Reviews

CONSULTANT shall prepare Intersection Alternative Analysis Report and associated documents that are accurate, legible and complete in detail. All submittals shall be made to **COUNTY** electronically and in reproducible form unless otherwise requested. Intersection Alternative Analysis Report review submittals shall occur at the Preliminary and Final phases.

The final Intersection Alternative Analysis Report will consist of digitally signed and sealed documents including one copy of digital design files in acceptable AutoCAD format (Civil 3D 2018).

CONSULTANT shall prepare plans 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.
- Bid quantities and construction cost estimates shall be submitted at the 60% (quantities only), 90% and 100%/Final submittal phases.
- 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 2018).
- **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.

INTERSECTION ALTERNATIVE ANALYSIS REPORT 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.

- 20 months for delivery of all services following receipt of NTP.

CSA #22-087-02 EXCLUSIONS

This scope of services does not include:

- Signal warrant study (provided by **COUNTY**)
- Crash data (provided by **COUNTY**)
- Utility design or utility relocation design services
- Survey services (to be provided by **COUNTY**)
- Right-of-Way acquisition services (provided by **COUNTY**)
- Public Involvement (provided by **COUNTY**)
- Pavement Design (provided by **COUNTY**)
- R/W Cost Estimates
- Expert witness services
- Post Design Services

CSA #22-087-03 FEES

CONSULTANT's not-to-exceed fee to perform this scope of services is **\$393,548.40**

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: **Cart Rd. @ Christina Blvd/Eaglebrook Blvd - Intersection Improvements**
 County: **Polk**
 FPN: **22-087-03**
 FAP No.:

Consultant Name: **HDR Engineering, Inc**
 Consultant No.: **CSA# 22-087-03**
 Date: **2/27/2026**
 Estimator: **Brian Zimmerman**

Staff Classification	Hours From "SH Summary - Firm"	Project Manager	Chief Engineer	Senior Engineer	Project Engineer	Engineer	Senior Designer	Chief Designer	Administrative Assistant	CADD Technician	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project General and Project Common Tasks	102	54	5	0	0	0	0	0	41	0	0	0	0	100	\$22,397	\$223.97
4. Roadway Analysis	581	128	28	0	0	365	0	28	0	0	0	0	0	550	\$112,021	\$203.67
5. Roadway Plans	130	36	7	0	0	52	33	0	0	0	0	0	0	128	\$26,817	\$206.51
8. Structures - Misc. Tasks, Dwgs, Non-Tech.	14	0	2	5	8	0	0	0	0	0	0	0	0	15	\$3,882	\$259.47
18. Structures - Miscellaneous	48	0	0	9	16	16	0	0	0	5	0	0	0	46	\$9,191	\$199.80
19. Signing & Pavement Marking Analysis	127	0	6	0	57	64	0	0	0	0	0	0	0	127	\$24,818	\$195.42
20. Signing & Pavement Marking Plans	37	0	2	0	9	25	0	0	0	0	0	0	0	36	\$6,652	\$184.78
21. Signalization Analysis	217	0	11	0	206	0	0	0	0	0	0	0	0	217	\$49,291	\$227.15
22. Signalization Plans	71	0	4	0	57	11	0	0	0	0	0	0	0	72	\$15,722	\$218.36
23. Lighting Analysis	82	0	5	0	86	0	0	0	0	0	0	0	0	91	\$20,725	\$227.75
24. Lighting Plans	17	0	1	0	14	3	0	0	0	0	0	0	0	16	\$3,915	\$247.50
Total Staff Hours	1,414	219	71	14	453	536	33	28	41	5	0	0	0	1,400		
Total Staff Cost		\$64,057.50	\$25,631.00	\$3,948.00	\$89,660.00	\$84,666.00	\$5,544.00	\$6,510.00	\$4,797.00	\$805.00	\$0.00	\$0.00	\$0.00		\$285,440.50	\$211.03

Survey Field Days by Subconsultant
 4 - Person Crew:

- Notes:
 1. This sheet to be used by Prime Consultant to calculate the Grand Total fee.
 2. Manually enter fee from each subconsultant. Unused subconsultant rows may be hidden.

SALARY RELATED COSTS:					\$295,440.50
OVERHEAD:		0%			\$0.00
OPERATING MARGIN:		0%			\$0.00
FCCM Facilities Capital Cost Money:		0.00%			\$0.00
EXPENSES:		0.00%			\$0.00
Survey (Field - If by Prime)	0	4-person crew days @	\$ - / day		\$0.00
SUBTOTAL ESTIMATED FEE:					\$295,440.50
Subconsultant: Adams Traffic					\$2,750.00
Subconsultant: Triem					\$30,796.15
Subconsultant: ECHO					\$64,561.75
Subconsultant: Sub 4					\$0.00
Subconsultant: Sub 5					\$0.00
Subconsultant: Sub 6					\$0.00
Subconsultant: Sub 7					\$0.00
Subconsultant: Sub 8					\$0.00
Subconsultant: Sub 9					\$0.00
Subconsultant: Sub 10					\$0.00
Subconsultant: Sub 11					\$0.00
Subconsultant: Sub 12					\$0.00
SUBTOTAL ESTIMATED FEE:					\$393,548.40
Geotechnical Field and Lab Testing					\$0.00
SUBTOTAL ESTIMATED FEE:					\$393,548.40
Optional Services					\$0.00
GRAND TOTAL ESTIMATED FEE:					\$393,548.40

Representing	Print Name	Signature / Date
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HDR Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	N/A
3.1.2	Notifications	LS	1	0	0	N/A
3.1.3	Preparing Mailing Lists	LS	1	0	0	N/A
3.1.4	Median Modification Letters	LS	1	0	0	N/A
3.1.5	Oneway Modification Letters	LS	1	0	0	N/A
3.1.6	Newsletters	LS	1	0	0	N/A
3.1.7	Renderings and Fly Throughs	LS	1	0	0	N/A
3.1.8	PowerPoint Presentation	LS	1	0	0	N/A
3.1.9	Public Meeting Preparations	LS	1	0	0	N/A
3.1.10	Public Meeting Attendance/Follow-up	LS	1	0	0	N/A
3.1.11	Other Agency Meetings	LS	1	0	0	N/A
3.1.12	Web Site	LS	1	0	0	N/A
3.1 Public Involvement Subtotal					0	
3.2	Joint Project Agreements	EA	0	0	0	N/A
3.3	Specifications & Estimates					
3.3.1	Specifications Package Preparation	LS	1	0	0	N/A
3.3.2	Cost Estimate Preparation	LS	1	6	6	2 cost estimates (Concept Cost - Final Cost) (4hrs initial + 2 hrs update)
3.4	Contract Maintenance and Project Documentation	LS	1	72	72	12 hrs initial setup + 3 hrs/mo. x 20 months.
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	12	12	See listing below
3.7	Plans Update	LS	1	0	0	N/A

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	N/A
3.9	Digital Delivery	LS	1	12	12	3 EORs: 6 hrs initial + 2 people*3 hrs = 12
3.10	Risk Assessment Workshop	LS	1	0	0	N/A
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	N/A
3.11.1	Aeronautical Evaluation	LS	1	0	0	N/A
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	N/A
3.13	Other Project General Tasks	LS	1	0	0	N/A
3. Project Common and Project General Tasks Total					102	
3.6 - List of Project Manager Meetings						
	Units	No of Units	Hours/ Unit	Total Hours	Comments	
Roadway Analysis	EA	6	2	12		
Drainage	EA	0	0	0		
Utilities	EA	0	0	0		
Environmental	EA	0	0	0		
Structures	EA	0	0	0		
Signaling & Pavement Marking	EA	0	0	0		
Signalization	EA	0	0	0		
Lighting	EA	0	0	0		
Landscape Architecture	EA	0	0	0		
Survey	EA	0	0	0		
Photogrammetry	EA	0	0	0		
ROW & Mapping	EA	0	0	0		
Terrestrial Mobile LIDAR	EA	0	0	0		
Architecture	EA	0	0	0		
Noise Barriers	EA	0	0	0		
ITS Analysis	EA	0	0	0		
Geotechnical	EA	0	0	0		
Progress Meetings	EA	0	0	0		
Phase Reviews	EA	0	0	0		
Field Reviews	EA	0	0	0		
Total Project Manager Meetings		6		12	Total PM Meeting Hours carries to Task 3.6 above	

Notes:

1. If the hours per meeting vary in length (hours) enter the average in the hour/unit column.
2. Do not double count agency meetings between permitting agencies.
3. Project manager meetings are calculated in each discipline sheet and brought forward to Column D, except for Photogrammetry.

Estimator: Brian Zimmerman

Cart Rd. @ Christina Blvd/Eaglebrook Blvd - Intersection Improvements
22-087-03

Representing	Print Name	Signature / Date
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NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	0	0	N/A
4.2	Pavement Type Selection Report	LS	1	0	0	N/A
4.3	Pavement Design Package	LS	1	0	0	Pavement design to be provided by the County
4.4	Cross-Slope Correction	LS	1	0	0	N/A
4.5	Horizontal /Vertical Master Design Files	LS	1	200	200	Concept Development. Length based on intersection approaches for concept level of signalized intersection (1000' x 2 legs + 250' x 2 legs). Concept will then move into final design. Includes both plan and profile. Includes incorporation of utility greenlines, identifications and relocations. Total = 200 hrs
4.6	Access Management	LS	1	0	0	N/A
4.7	Roundabout Final Design Analysis	LS	1	0	0	N/A
4.8	Cross Section Design Files	LS	1	50	50	Cross Sections only in widening areas 100' spacing
4.9	Temporary Traffic Control Plan Analysis	LS	1	24	24	Level I TCP
4.10	Master TTCP Design Files	LS	1	0	0	N/A
4.11a	Selective Clearing and Grubbing of Existing Vegetation/Field Assessment	LS	1	0	0	N/A
4.11b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	N/A
4.11c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	N/A
4.12	Tree Disposition Plan	LS	1	0	0	N/A
4.13	Design Variations and Exceptions	LS	1	0	0	N/A
4.14	Design Report	LS	1	100	100	Development of Roadway portion of Draft and Final PER reports including report graphics and Design Criteria
4.15	Roadway Quantities	LS	1	40	40	Preliminary quantities for development of PER cost estimate (LRE level) & Quantity updates for each submittal (60/50/100); 40
4.16	Cost Estimate	LS	1	30	30	Draft and Final PER cost estimate. Includes one estimate of construction costs (12 hrs) Final design cost estimates (60/50/100-Final) (6x3 = 18 hrs)
4.17	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
4.18	Other Roadway Analyses	LS	1	0	0	N/A
Roadway Analysis Technical Subtotal					444	

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.19	Field Reviews	LS	3	9.3	28	3 field reviews (initial/60% with Co./100%) x 2 attendees (+traffic representative for 60%) x 4 hrs = 28 hrs
4.20	Monitor Existing Structures	LS	1	0	0	N/A
4.21	Technical Meetings	LS	1	18	18	Meetings are listed below
4.22	Quality Assurance/Quality Control	LS	%	5%	22	
4.23	Independent Peer Review	LS	%	0%	0	
4.24	Supervision	LS	%	5%	22	
Roadway Analysis Nontechnical Subtotal					90	
4.25	Coordination	LS	%	5%	27	
4. Roadway Analysis Total					561	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Utility Coordination Meeting	EA	2	2	4		yes	2
Pavement	EA	0	0	0			0
Access Management	EA	0	0	0			0
15% Line and Grade	EA	0	0	0			0
Driveways	EA	0	0	0			0
Local Governments (cities, counties, MPO)	EA	0	0	0			0
Work Zone Traffic Control	EA	0	0	0			0
Respond/Coordinate to comments on Draft and Final PER Reports	EA	2	2	4		yes	2
Kickoff and Recommended All meetings	EA	2	2	4		yes	2
Subtotal Technical Meetings				12			
Subtotal Project Manager Meetings							6
Progress Meetings (if required by FDOT)	EA	3	2	6	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				18	Total Project Manager Meetings (carries to Tab 3)		6

Carries to 4.21

Carries to Tab 3

Estimator: Brian Zimmerman

Carl Rd. @ Christina Blvd/Eaglebrook Blvd - Intersection Improvements
22-067-03

Representing	Print Name	Signature / Date
Polk County		
HDR Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	1	8	8	
5.2	Typical Section Sheets						
5.2.1	Typical Sections		EA	3	6	18	3 typical sections: 2-lane divided, 2-lane undivided (left, thru-right) with curb, 2-lane undivided (left, thru-right) without curb; 2 sections x 5 hrs + 8 hr initial setup = 18 hrs
5.2.2	Typical Section Details		EA	2	4	8	Widening detail, Pavement feathering detail
5.3	General Notes/Pay Item Notes		Sheet	1	6	6	
5.4	Project Layout		Sheet	1	6	6	
5.5	Plan/Profile Sheet		Sheet	0	0	0	N/A
5.6	Profile Sheet	1"=40'	Sheet	0	0	0	N/A
5.7	Plan Sheet	1"=40'	Sheet	4	6	24	4 plans sheets total
5.8	Special Profile		Sheet	0	0	0	N/A
5.9	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	N/A
5.10	Interchange Layout Sheet		Sheet	0	0	0	N/A
5.11	Ramp Terminal Details (Plan View)		Sheet	0	0	0	N/A
5.12	Intersection Layout Details		Sheet	0	0	0	N/A
5.13	Special Details		EA	0	0	0	N/A

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.14	Cross-Section Pattern Sheets		Sheet	0	0	0	N/A
5.15	Roadway Soil Survey Sheets		Sheet	1	1	1	Provided by Geotech
5.16	Cross Sections		EA	10	0.5	5	Assumed 10 cross sections
5.17	Temporary Traffic Control Plan Sheets		Sheet	2	6	12	General notes, typical Sections
5.18	Temporary Traffic Control Cross Section Sheets		EA	0	0	0	N/A
5.19	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	N/A
5.20	Utility Adjustment Sheets		Sheet	4	6	24	
5.21	Selective Clearing and Grubbing Sheets						
5.21.1	Selective Clearing and Grubbing		Sheet	0	0	0	N/A
5.21.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	N/A
5.22	Tree Disposition Sheets						
5.22.1	Tree Disposition Plan Sheets		Sheet	0	0	0	N/A
5.22.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	N/A
5.23	Project Control Sheets		Sheet	0	0	0	N/A
5.24	Environmental Detail Sheets		Sheet	0	0	0	N/A
5.25	Utility Verification Sheets (SUE Data)		Sheet	1	6	6	
Roadway Plans Technical Subtotal						118	
5.26	Quality Assurance/Quality Control		LS	%	5%	6	
5.27	Supervision		LS	%	5%	6	
5. Roadway Plans Total						130	

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Estimator:

Cart Rd. @ Christina Blvd/Eaglebrook Blvd - Intersection Improvements
22-087-03

Representing	Print Name	Signature / Date
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HDR Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	Design and Production Staffhours				Comments				
			No. of Units	Hours per Unit	No. of Sheets	Total					
General Drawings											
9.1	Key Sheet and Index of Drawings	Sheet	0	0	0	0					
9.2	Project Layout	Sheet	0	0	0	0					
9.3	General Notes and Bid Item Notes	Sheet	0	0	0	0					
9.4	Miscellaneous Common Details	Sheet	0	0	0	0					
9.5	Incorporate Report of Core Borings	Sheet	0	0	0	0					
9.6	Standard Plans- Bridges	LS	1	0		0					
9.7	Existing Bridge Plans	LS	1	0		0					
9.8	Structures Quantities for EQ Report	Bridges	0	Calculated Hours 0		0					
		Walls	0								
		Box Culverts	0								
9.9	Cost Estimate	LS	1	0		0					
9.10	Technical Special Provisions and Modified Special Provisions	LS	1	0		0	Not anticipated				
Structures - Summary and Miscellaneous Tasks and Drawings					0	0					
Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	Bridge 1	0	0	0	0	0	0	0	0		
10-16	Bridge 2	0									
10-16	Bridge 3	0									

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

10-16	Bridge 4	0									
10-16	Bridge 5	0									
10-16	Bridge 6	0									
10-16	Bridge 7	0									
10-16	Bridge 8	0									
10-16	Bridge 9	0									
10-16	Bridge 10	0									
17	Retaining Walls	0								0	
18	Miscellaneous Structures	46									46
Structures Technical Subtotal		46	0	0	0	0	0	0	0	0	46
Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments					
9.11	Field Reviews	LS	1	0	0						
9.12	Technical Meetings	LS	1	2	2	Meetings are listed below					
9.13	Quality Assurance/Quality Control	LS	%	5%	2	This should be (5% to 10%) x ("Structures - Summary and Miscellaneous Tasks and Drawings Subtotal, cell G21" + "Structures Technical Subtotal, cell C35")					
9.14	Independent Peer Review	LS	1	0	0						
9.15	Supervision	LS	%	5%	2	This should be (3% to 7%) x ("Structures - Summary and Miscellaneous Tasks and Drawings Subtotal, cell G21" + "Structures Technical Subtotal, cell C35")					
Structures Nontechnical Subtotal					6						
9.16	Coordination	LS	1	8	8	Coordination with Traffic and Geotechnical Engineer (5 hrs), Responding to Comments (3 hrs)					
9. Structures - Summary and Miscellaneous Tasks and Drawings					14						

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
BDR Coordination/Review	EA	0	0	0			0
90/100% Comment Review	EA	0	2	0			0
Aesthetics Coordination	EA	0	0	0			0
Regulatory Agency	EA	0	0	0			0
Local Governments (cities, counties)	EA	0	0	0			0

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Utility Companies	EA	0	0	0						0
Other Meetings	EA	0	0	0						0
Subtotal Technical Meetings				0						0
Progress Meetings (if required by FDOT)	EA	0	0	0	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>					--
Phase Review Meetings	EA	0	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>					--
Total Meetings				0	Total Project Manager Meetings (carries to Tab 3)					0

Carries to 9.12

Carries to Tab 3

Project Activity 18: Miscellaneous Structures

Estimator:

Carl Rd. @ Christina Blvd/Eaglebrook Blvd - Intersection Improvements
22-087-03

Representing	Print Name	Signature / Date
Polk County		
HDR Engineering, Inc.		

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Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
Concrete Box Culvert							
18.1	Concrete Box Culverts	EA	0	0		0	
18.2	Concrete Box Culverts Extensions	EA Extension	0	0		0	
18.3	Concrete Box Culvert Data Table Plan Sheets	Sheet	0	0	0	0	
18.4	Concrete Box Culvert Special Details Plan Sheets	Sheet	0	0	0	0	
Strain Poles							
18.5	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.6	Concrete Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.7	Strain Pole Data Table Plan Sheets	Sheet	0	0	0	0	
18.8	Strain Pole Special Details Plan Sheets	Sheet	0	0	0	0	
Mast Arms							
18.9	Mast Arms	EA Design	2	20		40	2 mast arms designs with associated foundation design considering regular drilled shaft foundation.
18.10	Mast Arms Data Table Plan Sheets	Sheet	1	6	1	6	1 sheet
18.11	Mast Arm Special Details Plan Sheets	Sheet	0	0	0	0	
Overhead/Cantilever Sign Structures							
18.12	Cantilever Sign Structures	EA Design	0	0		0	
18.13	Overhead Span Sign Structures	EA Design	0	0		0	
18.14	Special (Long Span) Overhead Span Sign Structures	EA Design	0	0		0	
18.15	Monotube Overhead Sign Structure	EA Design	0	0		0	
18.16	Bridge Mounted Signs (Attached to Superstr.)	EA Design	0	0		0	
18.17	Overhead and Cantilever Sign Structures Data Table Plan Sheets	Sheet	0	0	0	0	
18.18	Overhead and Cantilever Sign Structures Special Details Plan Sheets	Sheet	0	0	0	0	
High Mast Lighting							
18.19	Non-Standard High Mast Lighting Structures	EA Design	0	0		0	
18.20	High Mast Lighting Special Details Plan Sheets	Sheet	0	0	0	0	
Noise Barrier Walls (Ground Mount)							
18.21	Horizontal Wall Geometry	EA Wall	0	0		0	
18.22	Vertical Wall Geometry	EA Wall	0	0		0	
18.23	Summary of Quantities - Aesthetic Requirements	Sheet	0	0	0	0	
18.24	Control Drawings	Sheet	0	0	0	0	
18.25	Design of Noise Barrier Walls Covered by Standards	EA Design	0	0		0	
18.26	Design of Noise Barrier Walls Not Covered by Standards	EA Design	0	0		0	
18.27	Aesthetic Details	LS	1	0		0	
Special Structures							

Project Activity 18: Miscellaneous Structures

18.28	Fender System	LS	1	0		0	
18.29	Fender System Access	LS	1	0		0	
18.30	Special Structures	LS	1	0		0	
18.31	Other Structures	LS	1	0		0	
Ancillary Structures Report							
18.32	Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles	EA structure	0	0	0	0	
18.33	Condition Evaluation of Signal and Sign Structures, and High Mast Light Poles (No As built or Design Plans Available)	EA structure	0	0	0	0	
18.34	Analytical Evaluation of Signal and Sign Structures, and High Mast Light Poles	EA structure	0	0	0	0	
18.35	Ancillary Structures Report	LS	1	0		0	
18. Structures - Miscellaneous Total			1	0	0	0	0

Project Activity 19: Signing and Pavement Marking Analysis

Estimator: Greg Stevanus

Cart Rd. @ Christina Blvd/Eaglebrook Blvd - Intersection Improvements

22-087-03

Representing	Print Name	Signature / Date
Polk County		
HDR Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.1	Traffic Data Analysis	LS	1	2	2	Review of Typical Section Package and recommendations taken from the traffic counts.
19.2	No Passing Zone Study	LS	0	0	0	N/A
19.3	Signing and Pavement Marking Master Design File	LS	1	56	56	Based on Lower Range: 30 hours for setup and 40 hours per mile. And 6 Hours for Signalized Intersection. Length based on intersection approaches for concept level of signalized intersection (1000' x 2 legs + 250' x 2 legs) Using 1 mile minimum. 30 + (1 x 20) + 6 = 56 Hours
19.4	Multi-Post Sign Support Calculations	EA	3	2	6	Multipost Calcs for 3 legs of the intersection not counting the East Leg due to the gated community.
19.5	Sign Panel Design Analysis	EA	3	2	6	3 next signal signs.
19.6	Sign Lighting/Electrical Calculations	EA	0	0	0	N/A
19.7	S&PM Quantities for EQ Report	Length (Miles)	1.00	Calculated Hours	16	
		Complexity	Low Range			
		Interchanges Rest Areas	0	16		
19.8	Cost Estimate	LS	3	2	6	2 Hours to develop LRE and 2 hours each for 2 submittals.
19.9	Technical Special Provisions and Modified Special Provisions	LS	0	0	0	N/A
19.10	Other Signing and Pavement Marking	LS	0	0	0	N/A
Signing and Pavement Marking Analysis Technical Subtotal					92	
19.11	Field Reviews	LS	2	4	8	1 Field review for 2 Staff at 4 Hours. (1 review x 2 staff x 4 hours = 8 Hours)
19.12	Technical Meetings	LS	1	11	11	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	5	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	5	
Signing and Pavement Marking Analysis Nontechnical Subtotal					29	

Project Activity 19: Signing and Pavement Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
19.16	Coordination	LS	%	5%	6	
19. Signing and Pavement Marking Analysis Total					127	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Sign Panel Design	EA	1	1	1			0
Queue Length Analysis	EA	1	1	1			0
Local Governments (cities, counties)	EA	0	0	0			0
Other Meetings	EA	3	3	9			0
Subtotal Technical Meetings				11		Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				11		Total Project Manager Meetings (carries to Tab 3)	0

Carries to 19.12

Carries to Tab 3

20. Signing and Pavement Marking Plans

Representing	Print Name	Signature / Date
Polk County		
HDR Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Project Parameter			Staff Hours				Documentation
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated	Provide documentation when negotiated hours differ from the calculated hours.
20.1	Key Sheet		0		0	0	0	0	Will be apart of the roadway set
	Signature Sheet		0		0	0	0	0	Will be apart of the roadway set
20.2	General Notes/Pay Item Notes		1	Simple	6	0	6	0	
20.3	Project Layout		0		0	0	0	0	N/A
20.4	Plan Sheet	Length (Miles)	1.00	Low Range	14	0	14	0	
		Sig Intersection Mid-Block Xing	1		2	0	2	0	
		Interchange Roundabout	0		0	0	0	0	
		Rest Area	0		0	0	0	0	
		Toll Facility	0		0	0	0	0	
20.5	Special Details	Details	0	Simple	0	0	0	0	
			0	Standard	0	0	0	0	
			0	Complex	0	0	0	0	
20.6	Service Point Details	Service Point	0	Simple	0	0	0	0	
			0	Standard	0	0	0	0	
20.7	Guide Sign Data	Sign Panel	3		6	0	6	0	
20.8	Cross Sections (Sign Installations)	Multi-post signs	3		9	0	9	0	
		Overhead Sign Structures	0	Standard	0	0	0	0	
			0	Complex	0	0	0	0	
S&PM Plans Technical Hours Subtotal					37	0	37	0	
20.9	Quality Assurance/Quality Control	%	1	5%	2				0
20.10	Supervision	%	1	5%	2				0
S&PM Plans Total								37	

Project Activity 21: Signalization Analysis

Estimator: Bryan St. George

Carter Rd. @ Christina Blvd/Eaglebrook Blvd - Intersection Improvements

22-087-03

Representing	Print Name	Signature / Date
Polk County		
HDR Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
21.1	Traffic Data Collection	LS	1	0	0	
21.2	Traffic Data Analysis	PI	1	103	103	Process traffic count data: 6 hrs Develop Existing year volumes: 2 hrs Develop growth rate: 8 hrs Crash analysis: 12 hrs Existing year Synchro model analysis: 3 hrs/peak period*2 peak periods = 6 hrs Develop Design year volumes: 6 hrs Design year Synchro model analysis: 3 hrs/peak period*2 peak periods*3 Alternatives (including No Build, Signal with Existing geometry, signal with improved geometry) = 18 hrs Incorporation into an Intersection Alternatives Analysis Report: 40 hrs Develop Signal Operating Plan = 5 Hours
21.3	Signal Warrant Study	LS	1	0	0	N/A
21.4	System Timings	LS	1	0	0	N/A
21.5	Reference and Master Signalization Design File	PI	1	40	40	Based on Middle Range to account for limited R/W.
21.6	Reference and Master Interconnect Communication Design File	LS	1	0	0	N/A
21.7	Overhead Street Name Sign Design	EA	3	2	6	3 Internally Illuminated Street Name sign designs.
21.8	Pole Elevation Analysis	LS	1	2	2	Efforts to determine pole elevations at proposed pole locations as well as critical elevations over the roadway
21.9	Traffic Signal Operation Report	LS	0	0	0	N/A
21.10	Signalization Quantities for EQ Report	Signalized Intersections	1	Calculated Hours 20	20	
21.11	Cost Estimate	LS	1	14	14	2 hours to review/develop LRE and 2 Submittal at 6 hours each 2*(2 x 6) = 14 Hours
21.12	Technical Special Provisions and Modified Special Provisions	LS	0	0	0	N/A
21.13	Other Signalization Analysis	LS	0	0	0	N/A
Signalization Analysis Technical Subtotal					185	

Project Activity 21: Signalization Analysis

21.14	Field Reviews	LS	1	0	0	Included in Signing and pavement Marking Tab 19
21.15	Technical Meetings	LS	1	8	8	Meetings are listed below
21.16	Quality Assurance/Quality Control	LS	%	5%	9	
21.17	Independent Peer Review	LS	%	0%	0	
21.18	Supervision	LS	%	5%	9	
Signalization Analysis Nontechnical Subtotal					26	

Project Activity 21: Signalization Analysis

21.19	Coordination	LS	%	3%	6	
21. Signalization Analysis Total					217	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
FDOT Traffic Operations	EA	0	0	0			0
FDOT Traffic Design	EA	0	0	0			0
Power Company (service point coordination)	EA	0	0	0			0
Maintaining Agency (cities, counties)	EA	2	2	4			0
Railroads	EA	0	0	0			0
Other Meetings	EA	2	2	4			0
Subtotal Technical Meetings				8		Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				8	Total Project Manager Meetings (carries to Tab 3)		0

Carries to 21.15

Carries to Tab 3

22. Signalization Plans

Representing	Print Name	Signature / Date
Polk County		
HDR Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Project Parameter			Staff Hours			Documentation	
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated	Provide documentation when negotiated hours differ from the calculated hours.
22.1	Key Sheet		0		0	0	0	0	Will be apart of the roadway set
	Signature Sheet		0		0	0	0	0	Will be apart of the roadway set
22.2	General Notes/Pay Item Notes		1	Standard	9	0	9	0	
22.3	Signalization Plan Sheets	Signalized Intersections	1	Mid Range	4	0	4	0	
22.4	Interconnect Plan Sheets	Length (Miles)	0.00		0	0	0	0	
22.5	Traffic Monitoring Site	Sites (Loop Detect.)	0		0	0	0	0	
		Sites (Other Detect.)	0		0	0	0	0	
22.6	Guide Sign Data	Sign Panel	3		6	0	6	0	
			0	Simple	0	0	0	0	
22.7	Special Details	Details	4	Standard	8	0	8	0	Pull box Concrete Apron Configuration, UPS, Controller Cabinet Pad and Conduit Entry Details
			4	Complex	16	0	16	0	Cross section for mast arm poles with all utilities (CH and UG)
22.8	Service Point Details	Service Point	0	Simple	0	0	0	0	
			1	Standard	8	0	8	0	Electrical Riser Diagram.
22.9	Mast Arm / Monotube Data	Signal Arm	4	Single Mast Arm	4	0	4	0	
			0	Double Mast Arm	0	0	0	0	
22.10	Strain Pole Schedule	Span	0		0	0	0	0	
22.11	TTCP Signal	Intersections w/o ped signal	1	Mid Range	16	0	16	0	Temporary traffic signal for duration where new signal is being constructed.
		Intersections with ped signal	0		0	0	0	0	
22.12	Temporary Detection Sheet	Intersections	0		0	0	0	0	
Signalization Plans Technical Hours Subtotal					71	0	71	71	
22.13	Quality Assurance/Quality Control	%	1	5%	4			0	
22.14	Supervision	%	1	5%	4			0	
Signalization Plans Total								71	

Project Activity 23: Lighting Analysis

Estimator: Greg Stevanus

Cart Rd. @ Christina Blvd/Eaglebrook Blvd - Intersection Improvements

22-087-03

Representing	Print Name	Signature / Date
Polk County		
HDR Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
23.1	Lighting Justification Report	LS	0	0	0	N/A
23.2	Lighting Design Analysis Report (LDAR)	LS	1	6	6	Prepare a lighting memo along side the concept submittals for review.
23.3	Voltage Drop Calculations	EA	1	2	2	Prepare voltage Drop Calculations
23.4	FDEP Coordination and Report	LS	0	0	0	
23.5	Reference and Master Design Files	LS	1	29	29	Using Lower Range, 15 Hours for Setup + 14 Hours for Intersection Lighting = 29 Hours
23.6	Temporary Highway Lighting	LS	0	0	0	
23.7	Design Documentation	LS	1	6	6	Preparing all design documents as apart of the submittal.
23.8	Lighting Quantities for EQ Report	Light Poles	10	Calculated Hours 21	21	
23.9	Cost Estimate	LS	1	10	10	2 hours for review/develop LRE and 4 hours for 2 submittals 2*(4x2) = 10 Hours
23.10	Technical Special Provisions and Modified Special Provisions	LS	0	0	0	
23.11	Other Lighting Analysis	LS	0	0	0	
Lighting Analysis Technical Subtotal					74	
23.12	Field Reviews	LS	1	0	0	Included in Signing and pavement Marking Tab 19
23.13	Technical Meetings	LS	1	7	7	
23.14	Quality Assurance/Quality Control	LS	%	5%	4	
23.15	Independent Peer Review	LS	%	0%	0	
23.16	Supervision	LS	%	5%	4	
Lighting Analysis Nontechnical Subtotal					15	
23.17	Coordination	LS	%	3%	3	
23. Lighting Analysis Total					92	

Project Activity 23: Lighting Analysis

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
FDOT Lighting Design	EA	0	0	0			0
FDOT Traffic Design	EA	0	0	0			0
Power Company (service point coordination)	EA	2	1	2			0
Maintaining Agency (cities, counties)	EA	1	1	1			0
Airport authority	EA	0	0	0			0
FDEP Lighting (coast areas)	EA	0	0	0			0
Other Meetings	EA	2	2	4			0
Subtotal Technical Meetings				7		Subtotal Project Manager Meetings	0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		--
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		--
Total Meetings				7	Total Project Manager Meetings (carries to Tab 3)		0

Carries to 23.13

Carries to Tab 3

24. Lighting Plans

Representing	Print Name	Signature / Date
Polk County		
HDR Engineering, Inc.		

NOTE: Signature Block is optional, per District preference

Task No.	Task	Project Parameter			Staff Hours				Documentation Provide documentation when negotiated hours differ from the calculated hours.
		Description	Units	Complexity	Calculated	Department	Consultant	Negotiated	
24.1	Key Sheet		0		0	0	0	0	Will be apart of the roadway set
	Signature Sheet		0		0	0	0	0	Will be apart of the roadway set
24.2	General Notes/Pay Item Notes		1	Simple	6	0	6	0	
24.3	Pole Data, Legend and Criteria	Poles	8		7	0	7	0	
24.4	Project Layout		0		0	0	0	0	N/A
	Plan Sheets (Corridor Projects)	Length (Miles)	0.00		0	0	0	0	
24.5	Plan Sheets (Isolated Locations)	Intersections or Mid-Blocks	1		4	0	4	0	
		Interchanges or Rest Areas	0		0	0	0	0	
24.6	Special Details	Details	0	Simple	0	0	0	0	
			0	Standard	0	0	0	0	
			0	Complex	0	0	0	0	
24.7	Service Point Details	Service Point	0	Simple	0	0	0	0	
			0	Standard	0	0	0	0	
			0	Complex	0	0	0	0	
24.8	Temporary Highway Lighting		0		0	0	0	0	
Lighting Plans Technical Hours Subtotal					17	0	17	17	
24.9	Quality Assurance/Quality Control	%	1	5%	1			0	
24.10	Supervision	%	1	5%	1			0	
					Lighting Plans Total				17

Adams Traffic, Inc.

P.O. Box 997, Plant City, FL 33564

Telephone: 813-763-7763

FEE PROPOSAL

Date: October 16, 2025

Project: Carter Rd at Christina Blvd /Eaglebrooke Blvd
Polk County Intersection Improvement

Client: Brian Zimmerman, PE
HDR
4830 W Kennedy Blvd
Tampa, FL 33609

Adams Traffic appreciates this opportunity to provide a proposal to HDR for the above-referenced project. This proposal presents our understanding of the scope of services, and a fee estimate to complete the services.

Services to be provided by Adams Traffic, Inc.:

Adams Traffic shall collect the following traffic counts:

- 48-hr bi-directional volume counts on all four legs of the Carter Rd/Christina Blvd/Eaglebrooke Blvd intersection. The counts will be reported in 15-minute intervals with hourly, daily, and peak totals.
- 6:30-8:30am & 4-6pm turning movement counts at the Carter Rd/Christina Blvd/Eaglebrooke Blvd intersection. The counts will be reported in 15-minute intervals with hourly and peak totals.

All counts will be collected on a Tuesday, Wednesday, or Thursday of a non-holiday week unless directed otherwise by the client.

Fee for services:

Lump Sum Fee of \$2,750.

Please contact me if you have any questions or would like additional information regarding our services and capabilities.

Sincerely,

Adams Traffic, Inc.



Nancy Adams, P.E
President

Item Description	Unit	Unit Price	Quantity	Total
Geotechnical Field Investigation				
101-Aggregate Carbonates & Organic Matter FM 5-514	Test	\$ 100.00		\$ -
102-Aggregate Org. Impurities S& for Concrete AASHTO T21	Test	\$ 45.00		\$ -
103-Aggregate Shell Content of Coarse Aggregate FM 5-555	Test	\$ 85.00		\$ -
104-Aggregate Sieve Anlsys of Fine & Coarse AASHTO T27	Test	\$ 60.00		\$ -
105-Aggregate Soundness AASHTO T104	Test	\$ 300.00		\$ -
106-Aggregate Specific Gravity/Absorption Coarse AASHTO T85	Test	\$ 88.00		\$ -
107-Aggregate Total Moisture Content by Drying AASHTO T255	Test	\$ 35.00		\$ -
108-Aggregate Unit Mass & Voids AASHTO T19	Test	\$ 55.00		\$ -
109-Aggregate Specific Gravity/Absorption Fine AASHTO T84	Test	\$ 95.00		\$ -
200-Asphalt Bulk Specific Gravity FM 1-T166	Test	\$ 50.00		\$ -
201-Asphalt Content FM 5-563	Test	\$ 145.00		\$ -
204-Asphalt Gradation FM 1-T030	Test	\$ 75.00		\$ -
206-Asphalt Los Angeles (LA) Abrasion Coarse Agg FM 3-C535	Test	\$ 325.00		\$ -
207-Asphalt Los Angeles (LA) Abrasion Small Agg FM 1-T096	Test	\$ 297.00		\$ -
209-Asphalt Pavement Coring – 4" dia with Base Depth Check	Each	\$ 250.00		\$ -
210-Asphalt Pavement Coring – 4" dia without Base Depth Check	Each	\$ 200.00		\$ -
211-Asphalt Pavement Coring – 6" dia with Base Depth Check	Each	\$ 275.00	6	\$ 1,650.00
212-Asphalt Pavement Coring – 6" dia without Base Depth Check	Each	\$ 225.00		\$ -
300-Concrete Beam Flexural Testing ASTM C78	Test	\$ 55.00		\$ -
301-Concrete Compressive Strength of Grout\Mortar ASTM C109	Test	\$ 28.00		\$ -
302-Concrete Cylinder Curing, Capping & Breaking ASTM C39	Test	\$ 35.00		\$ -
303-Concrete Drilled Cores & Sawed Beams ASTM C42	Test	\$ 50.00		\$ -
305-Concrete Pavement Coring - 4" Dia	Each	\$ 200.00		\$ -
306-Concrete Pavement Coring - 6" Dia	Each	\$ 225.00		\$ -
401-Geo Auger Borings- Hand & Truck/Mud Bug	LF	\$ 10.80	30	\$ 324.00
402-Geo Auger Borings- Track	LF	\$ 13.75		\$ -
403-Geo Backhoe (Owned)	Day	\$ 600.00		\$ -
405-Geo Barge (Owned)	Day	\$ 2,650.00		\$ -
407-Geo Chainsaw (Owned)	Day	\$ 55.00		\$ -
415-Geo Double Ring Infiltration ASTM D3385	Each	\$ 525.00		\$ -
416-Geo Dozer (Owned)	Day	\$ 800.00		\$ -
418-Geo Drill Crew Support Vehicle	Day	\$ 200.00	2	\$ 400.00
419-Geo Drilling Crew 2- Person	Hour	\$ 135.00		\$ -
420-Geo Drilling Crew 3-Person	Hour	\$ 185.00		\$ -
422-Geo Extra SPT Samples-Barge/Track/Amphibious 000-050 Ft	Each	\$ 71.00		\$ -
423-Geo Extra SPT Samples-Barge/Track/Amphibious 050-100 Ft	Each	\$ 71.00		\$ -
424-Geo Extra SPT Samples-Barge/Track/Amphibious 100-150 Ft	Each	\$ 85.00		\$ -
425-Geo Extra SPT Samples-Barge/Track/Amphibious 150-200 Ft	Each	\$ 92.00		\$ -
427-Geo Extra SPT Samples-Truck/Mud Bug 000-050 Ft	Each	\$ 71.00		\$ -
428-Geo Extra SPT Samples-Truck/Mud Bug 050-100 Ft	Each	\$ 71.00		\$ -
429-Geo Extra SPT Samples-Truck/Mud Bug 100-150 Ft	Each	\$ 85.00		\$ -
430-Geo Extra SPT Samples-Truck/Mud Bug 150-200 Ft	Each	\$ 85.00		\$ -
432-Geo Field Permeability 0-10 Ft (Open - End Borehole Method)	Each	\$ 314.00		\$ -
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 11.25		\$ -
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 17.25		\$ -
434-Geo Ground Penetrating Radar (GPR)	Hour	\$ 285.00		\$ -
435-Geo Grout Boreholes- Barge/Track/Amphibious 000-050 Ft	LF	\$ 8.50		\$ -
436-Geo Grout Boreholes- Barge/Track/Amphibious 050-100 Ft	LF	\$ 11.25		\$ -
437-Geo Grout Boreholes- Barge/Track/Amphibious 100-150 Ft	LF	\$ 17.25		\$ -
438-Geo Grout Boreholes- Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00		\$ -

Item Description	Unit	Unit Price	Quantity	Total
440-Geo Grout Boreholes- Truck/Mud Bug 000-050 Ft	LF	\$ 6.25	140	\$ 875.00
441-Geo Grout Boreholes- Truck/Mud Bug 050-100 Ft	LF	\$ 8.00		\$ -
442-Geo Grout Boreholes- Truck/Mud Bug 100-150 Ft	LF	\$ 13.10		\$ -
443-Geo Grout Boreholes- Truck/Mud Bug 150-200 Ft	LF	\$ 18.00		\$ -
445-Geo Grouted Monitor Well 2" 000-050 Ft	LF	\$ 32.00		\$ -
450-Geo Piezometer 2" 000-050 Ft	LF	\$ 44.00		\$ -
453-Geo Rock Coring Barge/Track/Amphibious 000-050 Ft less than 4" ID	LF	\$ 52.00		\$ -
455-Geo Rock Coring Barge/Track/Amphibious 050-100 Ft less than 4" ID	LF	\$ 68.00		\$ -
457-Geo Rock Coring Barge/Track/Amphibious 100-150 Ft less than 4" ID	LF	\$ 85.00		\$ -
459-Geo Rock Coring Barge/Track/Amphibious 150-200 Ft less than 4" ID	LF	\$ 94.00		\$ -
463-Geo Rock Coring Truck/Mud Bug 000-050 Ft less than 4" ID	LF	\$ 45.00		\$ -
465-Geo Rock Coring Truck/Mud Bug 050-100 Ft less than 4" ID	LF	\$ 52.00		\$ -
467-Geo Rock Coring Truck/Mud Bug 100-150 Ft less than 4" ID	LF	\$ 60.00		\$ -
473-Geo SPT Barge/Track/Amphibious 000-050 Ft	LF	\$ 21.50		\$ -
474-Geo SPT Barge/Track/Amphibious 050-100 Ft	LF	\$ 28.90		\$ -
475-Geo SPT Barge/Track/Amphibious 100-150 Ft	LF	\$ 53.00		\$ -
476-Geo SPT Barge/Track/Amphibious 150-200 Ft	LF	\$ 70.00		\$ -
478-Geo SPT Truck-Mud Bug 0-50 Ft	LF	\$ 15.20	140	\$ 2,128.00
479-Geo SPT Truck-Mud Bug 50-100 Ft	LF	\$ 18.10		\$ -
480-Geo SPT Truck-Mud Bug 100-150 Ft	LF	\$ 32.00		\$ -
481-Geo SPT Truck-Mud Bug 150-200 Ft	LF	\$ 42.00		\$ -
483-Geo Temp Casing 3" Barge/Track/Amphibious 0-050 Ft	LF	\$ 14.50	60	\$ 870.00
484-Geo Temp Casing 3" Barge/Track/Amphibious 50-100 Ft	LF	\$ 17.50		\$ -
485-Geo Temp Casing 3" Barge/Track/Amphibious 100-150 Ft	LF	\$ 20.00		\$ -
486-Geo Temp Casing 3" Barge/Track/Amphibious 150-200 Ft	LF	\$ 25.00		\$ -
488-Geo Temp Casing 3" Truck/Mud Bug 000-050 Ft	LF	\$ 10.30		\$ -
489-Geo Temp Casing 3" Truck/Mud Bug 050-100 Ft	LF	\$ 14.00		\$ -
490-Geo Temp Casing 3" Truck/Mud Bug 100-150 Ft	LF	\$ 17.50		\$ -
491-Geo Temp Casing 3" Truck/Mud Bug 150-200 Ft	LF	\$ 22.00		\$ -
515-Geo Undisturbed Samples Barge/Track/Amphibious 000-050 Ft	Each	\$ 200.00		\$ -
516-Geo Undisturbed Samples Barge/Track/Amphibious 050-100 Ft	Each	\$ 215.00		\$ -
517-Geo Undisturbed Samples Barge/Track/Amphibious 100-150 Ft	Each	\$ 240.00		\$ -
518-Geo Undisturbed Samples Barge/Track/Amphibious 150-200 Ft	Each	\$ 255.00		\$ -
519-Geo Undisturbed Samples Truck/Mud Bug 000-050 Ft	Each	\$ 200.00		\$ -
520-Geo Undisturbed Samples Truck/Mud Bug 050-100 Ft	Each	\$ 200.00		\$ -
521-Geo Undisturbed Samples Truck/Mud Bug 100-150 Ft	Each	\$ 200.00		\$ -
522-Geo Undisturbed Samples Truck/Mud Bug 150-200 Ft	Each	\$ 220.00		\$ -
523-Geo Vibration & Noise Monitoring	Day	\$ 970.00		\$ -
524-Geo Vibration Monitoring	Day	\$ 1,100.00		\$ -
525-Geo Well Development	Hour	\$ 175.00		\$ -
526-Geo Dynamic Pile Testing/Embedded Data Collector	Day	\$ 1,100.00		\$ -
531-Geo Truck/Mudbug Drill Rig and Crew (2-person)	Hour	\$ 190.00		\$ -
532-Geo Truck/Mudbug Drill Rig and Crew (3-person)	Hour	\$ 260.00		\$ -
533-Geo Track/Barge Drill Rig and Crew (2-person)	Hour	\$ 190.00		\$ -
534-Geo Track/Barge Drill Rig and Crew (3-person)	Hour	\$ 260.00		\$ -
535-Geo Clearing Equip- Tractor, Bush Hog Attachment	Day	\$ 1,400.00		\$ -
536-Geo Clearing Equip-Skid Steer/ASV, ForestMulching Attach	Day	\$ 1,600.00		\$ -
537-Geo Clearing Equip-Skid Steer/ASV, Brush Cutter Attach	Day	\$ 1,600.00		\$ -
538-Geo Clearing Equipment	Day	\$ 2,000.00		\$ -
539-Geo Wash Boring for Rock Cores 0-50 Ft	LF	\$ 9.00		\$ -
540-Geo Wash Boring for Rock Cores 50-100 Ft	LF	\$ 12.00		\$ -

Item Description	Unit	Unit Price	Quantity	Total
541-Geo Wash Boring for Rock Cores 100-150 Ft	LF	\$ 22.00		\$ -
602-Mobilization - Vibration Monitoring Equipment	Each	\$ 230.00		\$ -
603-Mobilization Asphalt Coring equipment	Each	\$ 300.00		\$ -
606-Mobilization Concrete Coring	Each	\$ 300.00		\$ -
609-Geo Mobilization Drill Rig Barge Mount	Each	\$ 8,600.00		\$ -
610-Geo Mobilization Drill Rig Track Mount	Each	\$ 3,250.00		\$ -
612-Geo Mobilization Drill Rig Truck Mount	Each	\$ 410.00	2	\$ 820.00
614-Geo Mobilization Mudbug/All Terrain Vehicle	Each	\$ 700.00		\$ -
618-Geo Mobilization Support Boat	Each	\$ 500.00		\$ -
619-Geo Mobilization Tri-Pod	Each	\$ 1,250.00		\$ -
MOT Maintenance of Traffic	Each	\$ 2,800.00	2	\$ 5,600.00
702-MOT Channelizing Devices - Type I, II, VP, Drum (each)	Each	\$ 5.00		\$ -
706-MOT Portable Sign	Each	\$ 43.00		\$ -
708-MOT Provide Channelizing Devices - Cone	Each	\$ 5.00		\$ -
710-MOT Shadow Vhcle w/ Adv. Warning Arrow & Attenuator	Hour	\$ 280.00		\$ -
712-MOT Support Vehicle	Hour	\$ 155.00	8	\$ 1,240.00
800-Soils Chloride Soil or Water (FM 5-552)	Test	\$ 110.00		\$ -
803-Soils Consolidation - Constant Strain (ASTM D4186)	Test	\$ 580.00		\$ -
804-Soils Consolidation - Extended Load Increments (AASHTO T216)	Day	\$ 150.00		\$ -
805-Soils Corrosion Series (FM 5-550 through 5-553)	Test	\$ 305.00	2	\$ 610.00
806-Soils Direct Shear Consolidated Drained/ Point AASHTO T 236	Test	\$ 350.00		\$ -
810-Soils Limerock Bearing Ratio (LBR)(FM 5-515)	Test	\$ 350.00	3	\$ 1,050.00
811-Soils Liquid Limit (AASHTO T 89)	Test	\$ 60.00	6	\$ 360.00
812-Soils Materials Finer than 200 Sieve (FM 1-T011)	Test	\$ 45.00	10	\$ 450.00
817-Soils Moisture Content Laboratory (AASHTO T 265)	Test	\$ 14.00	8	\$ 112.00
819-Soils Organic Content Ignition (FM 1 T-267)	Test	\$ 42.00	2	\$ 84.00
821-Soils Particle Size Analysis (AASHTO T 88) (Including Hydrometer)	Test	\$ 200.00		\$ -
822-Soils Particle Size Analysis (AASHTO T 88) (No Hydrometer)	Test	\$ 67.00		\$ -
823-Soils Permeability Constant Head (AASHTO T 215)	Test	\$ 280.00		\$ -
824-Soils Permeability Falling Head (FM 5-513)	Test	\$ 260.00		\$ -
825-Soils pH Soil or Water (FM 5-550)	Test	\$ 39.00		\$ -
826-Soils Plastic Limit & Plasticity Index (AASHTO T 90)	Test	\$ 70.00	6	\$ 420.00
827-Soils Proctor Modified (FM 1-T 180)	Test	\$ 120.00		\$ -
828-Soils Proctor Standard (AASHTO T 99)	Test	\$ 115.00		\$ -
829-Soils Resistivity Soil or Water (FM 5-551)	Test	\$ 54.00		\$ -
832-Soils Splitting Tensile Strength of Rock Cores (ASTM D3967)	Test	\$ 138.00		\$ -
833-Soils Sulfate Soil or Water (FM 5-553)	Test	\$ 68.00		\$ -
838-Soils Unconfined Compression - Rock (ASTM D7012, Method C)	Test	\$ 138.00		\$ -
850-EDR Report	Each	\$ 500.00		\$ -
852-Organic Vapor Analyzer (OVA)	Day	\$ 150.00		\$ -
854-Handheld GPS	Per Day	\$ 80.34		\$ -
856-Field Sampling Kit (soil)	Each	\$ 75.00		\$ -
858-Field Sampling Survey Kit (water)	Each	\$ 75.00		\$ -
860-Power Auger Boring (includes decontamination to a depth of 25 feet)	Foot	\$ 11.90		\$ -
862-BTEX and MTBE (Method 8260)	Each	\$ 65.00		\$ -
864-Organochlorine Pesticides (Method 8081)	Each	\$ 100.00		\$ -
866-Organophosphorous Pesticides (Method 8141)	Each	\$ 125.00		\$ -
868-Chlorinated Herbicides (Method 8151)	Each	\$ 100.00		\$ -
870-Volatile Organics (Method 8260)	Each	\$ 95.00		\$ -
872-Volatile Organics BTEX/MTBE(Method 8260)	Each	\$ 60.00		\$ -
874-Semi-Volatiles (Method 8270)	Each	\$ 200.00		\$ -
876-Polyaromatic Hydrocarbons (Method 8270)	Each	\$ 100.00		\$ -

Item Description	Unit	Unit Price	Quantity	Total
878-TPH Method FL-Pro	Each	\$ 65.00		\$ -
880-RCRA 8 Metals (Method 6010/7471)	Each	\$ 65.00		\$ -
882-RCRA Metals Individual (Method 6010/7471)	Each	\$ 9.00		\$ -
884-Mercury Individual (Method 6010/7471)	Each	\$ 25.00		\$ -
886-Ultr Low Trace Mercury GW Individual (Method 1631)	Each	\$ 75.00		\$ -
888-Arsenic (Method 6010/7471)	Each	\$ 9.00		\$ -
890-SPLP/TCLP Metals	Each	\$ 198.00		\$ -
892-Asbestos Samples	Each	\$ 15.00		\$ -
894-Polychlorinated Biphenals (8082)	Each	\$ 75.00		\$ -
Engineering and Technical Support Services				
Chief Engineer	Hour	\$ 221.77		\$ -
Senior Engineer	Hour	\$ 198.71	22	\$ 4,371.62
Project Manager	Hour	\$ 190.00		\$ -
Threshold Inspector	Hour	\$ 190.00		\$ -
Senior Project Engineer	Hour	\$ 161.00	16	\$ 2,576.00
Chief Scientist	Hour	\$ 174.47		\$ -
Senior Scientist	Hour	\$ 141.17		\$ -
Engineer	Hour	\$ 144.77		\$ -
Engineering Intern	Hour	\$ 91.30	38	\$ 3,469.40
Senior Engineering Technician	Hour	\$ 102.30	11	\$ 1,125.30
Building Envelope Consulting (QA/QC Inspections)	Hour	\$ 95.00		\$ -
Threshold Inspector's Representative	Hour	\$ 85.00		\$ -
Engineering Technician	Hour	\$ 81.10	11	\$ 892.10
Asphalt Plant Inspector	Hour	\$ 75.00		\$ -
Senior Designer	Hour	\$ 124.43	11	\$ 1,368.73
Secretary / Clerical	Hour	\$ 123.78		\$ -
Total Cost:				\$ 30,796.15

ESTIMATE OF WORK EFFORT AND COST - Sub 1 (Subconsultant)
Exhibit "B"
Consultant's Pre-Negotiation Est.

Name of Project: Polk County - Carter and Christina Intersection Improvements
 County: Polk County
 FPN: 2022-067, TWO # ?
 FAP No.: N/A

Contract No.: X-XXXX
 N/A XX
 Districtwide Master Contract # / FP ID: XXXXXX-X-32-XX

Consultant Name: Sub 1
 Consultant No.: enter consultant's #
 Date: 12/16/2025
 Estimator: enter estimator's name

Staff Classification	Total Staff Hours From "SH Summary - Fee"	Project Manager 3	SUR Senior Surveyor 2	SUR Survey Project Manager 3	SUR Survey/Job/SUB Analyst 3	Utility Coordinator	Engineering Intern	Senior Designer	Chief Scientist	Scientist	Utility Coordinator	Work Class-11	Work Class-12	Work Class-13	Work Class-14	Work Class-15	Work Class-16	SH By Activity	Salary Cost By Activity	Average Rate Per Task
3. Project Common & Project General Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
6a. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
6b. Drainage Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
7. Utilities	155	0	0	0	0	155	0	0	0	0	0	0	0	0	0	0	0	155	\$16,360.25	\$105.55
8a. Env. Permits	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
8b. Env. Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
9. Structures - Misc. Tasks, Dwg, Non-Tech	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
16. Structures - Moveable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
27a. Survey (SUE) Field & Office Support	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
27b. Survey (SUE) Field & Office Support	61	9	9	18	25	0	0	0	0	0	0	0	0	0	0	0	0	61	\$10,911.50	\$178.88
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DM/0
Total Staff Hours	216	9	9	18	25	155	0	0	0	0	0	0	0	0	0	0	0	216		
Total Staff Cost	\$2,854.53	\$2,442.69	\$3,696.78	\$2,522.50	\$16,360.25	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$27,271.75	\$126.26

Notes:
 1. This sheet to be used by Subconsultant to calculate its fee.
 2. UNUSED Subconsultant "ROWS SHALL be hidden."

SALARY RELATED COSTS:		Check = \$27,271.75
OVERHEAD	0.00%	\$27,271.75
OPERATING MARGIN	0.00%	\$0.00
PCOII Fee/Other Capital Cost Minus:	0.0000%	\$0.00
EXPENSES	0.00%	\$0.00
Environmental Permit Fees - Sub 1		\$0.00
SUBTOTAL ESTIMATED FEE:		\$27,271.75
Survey Survey (Non-SUE)	0.0	4-person crew / hour
Field		\$0.00
(SUE)		
Survey (SUE-Designate)	51.2	3-person crew / hour
Field		\$294.00
Survey (SUE-Locate)	54.4	3-person crew / hour
Field		\$294.00
Survey (SUE-Survey)	26.4	3-person crew / hour
Field		\$236.50
(SUE) Field SUBTOTAL ESTIMATED FEE:		\$37,296.09
GEOTECHNICAL (Field and Lab Testing):		\$0.00
SUBTOTAL ESTIMATED FEE:		\$64,561.75
Optional Services:		\$0.00
GRAND TOTAL ESTIMATED FEE:		\$64,561.75

Representing		Print Name				Signature / Date	
County							
Consultant: (Firm Inmate)							
Estimator: Azalea Aole, ECHO UES	(Firm Inmate)	Polk County - Carter and Christina Intersection Improvements				2022-087, TWO # 1	
Consultant's Pre-Negotiation Est.							
Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments	
7.1	Utility Kickoff Meeting	LS	1	3	3	DO NOT manually input specific values on this row. This task is computed from the Technical Meetings below.	
7.2	Identify Existing Utility Agency Owners (UAOs)	LS	6	1	6	# UAOs within the limits of this project through permit research, field verification project as built and Sursiane 611 Design Ticket.	
7.3	Make Utility Contacts	LS	8	4	32	Send a statutory contact letter and distribute current phase plans to # of UAOs at 30, 60, 80 and 100% (1 hr per UAO contact @ 4 phases/contacts)	
7.4	Exception Processing	LS	1	0	0	N/A	
7.5	Preliminary Utility Meeting	LS	1	0	0	DO NOT manually input specific values on this row. This line will be automatically computed by the tabulation at the bottom of this tab.	
7.6	Individual / Field Meetings	LS	1	6	6	DO NOT manually input specific values on this row. This line will be automatically computed by the tabulation at the bottom of this tab.	
7.7	Collect and Review Plans and Data from UAO(s)	LS	8	2	16	Collect UAO marked plans, evaluate for content, accuracy, utility type, material and size. Provide markups to the EOR for incorporation into the plans. Forward all requests for reimbursement and supporting documentation to the County. # UAOs x 1 hr per UAO at both 30% and 60% (1 hr each phase)	
7.8	Subordination of Easements Coordination	LS	1	0	0	N/A - by the County ROW office	
7.9	Utility Design Meeting	LS	1	6	6	DO NOT manually input specific values on this row. This line will be automatically computed by the tabulation at the bottom of this tab.	
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	8	4	32	Collect and review RGBs and URS for completeness and correctness. Circulate RGBs and URS for review and comment by all discipline EORs. Circulate Final URS for signatures. (2.00 hrs per document, per phase) DRAFT RGBs and DRAFT URS 2.00 hrs x # UAOs at 80% phase FINAL RGBs and FINAL URS 2.00 hrs x # UAOs at 100% phase	
7.11	Utility Coordination Followup	LS	8	2	16	2 hours per UAO to follow up with delinquent UAOs. May include follow-up contact by correspondence or telephone, assisting UAOs with interpreting plans, and assisting with the completion of the utility relocation schedules or agreements to motivate and ensure UAO compliance to complete and return the required documents in accordance with the project schedule.	
7.12	Utility Constructability Review	LS	6	2	16	Review utility conflict matrix with the EORs for all disciplines. Constructability review of RGBs with the EOR at 80% or 100% to ensure conflict resolution. Review utility work schedules against plans, determine if there is sufficient time for prior work before contract letting date, and assist the EOR in comparing TTCO planning for construction compatibility 1 hr per UAO x # UAOs for RGB conflict resolution 1 hr per UAO x # UAOs for URS construction compatibility	
7.13	Additional Utility Services	LS	1	0	0	Optional Services (S/A)	
7.14	Processing Utility Work by Highway Contractor (LWHC)	LS	1	0	0	Optional Services (S/A if LWHCA is requested by a UAO)	
7.15	Contract Plans to UAO(s)	LS	8	1	8	Send Final S&S Plans to UAOs	
7.16	Certification/Close-Out	LS	6	1	6	Quality assurance check for all utility files and supporting documentation, close out any open review assignments, preparation and submittal of the Utility Certification Letter	
7.17	Other Utilities	LS	1	4	4	Assist the EOR with the review of Utility Permits submitted during design phases	
7. Utilities Total					156		
Technical Meetings		Units	No of Units	Hours/ Unit	Total Hours	Comments	
						PM Attendance at Meeting Required?	
						Yes / No (bring down box) Number	
Kickoff (see 7.1)		EA	1	3	3	Design kickoff meeting Yes 1	
Preliminary Meeting (see 7.5)		EA	0	0	0	N/A No 0	
Individual UAO Meetings (see 7.6)		EA	0	0	0	Optional Services No 0	
Field Meetings (see 7.6)		EA	1	6	6	Field Review, including travel time No 0	
Design Meeting (see 7.9)		EA	1	6	6	Utility Coordination Design Meeting with UAOs at either 60 or 80%, includes scheduling, agenda and minutes Yes 1	
Other Meetings (No is automatically added into Utilities Total (see #27))		EA	0	0	0	Meetings or teleconferences with the consultant design team and/or the County to review project plans, changes, conflict resolution and/or phase submittal reviews. Yes 0	
Total Meetings					15	Total Project Manager Meetings (carries to Tab 3) 2	

Reporting Unit		FTE Positions					Total FTE		Total Salary		Total Benefits	
Code	Name	Rate	Start Date	End Date	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
20	Director of Administration	120			120	120	120	120	120	120	120	
21	Director of Finance	110			110	110	110	110	110	110		
22	Director of Information Technology	100			100	100	100	100	100	100		
23	Director of Legal Services	90			90	90	90	90	90	90		
24	Director of Public Works	80			80	80	80	80	80	80		
25	Director of Transportation	70			70	70	70	70	70	70		
26	Director of Community Development	60			60	60	60	60	60	60		
27	Director of Economic Development	50			50	50	50	50	50	50		
28	Director of Planning & Zoning	40			40	40	40	40	40	40		
29	Director of Parks & Recreation	30			30	30	30	30	30	30		
30	Director of Public Safety	20			20	20	20	20	20	20		
31	Director of Human Resources	10			10	10	10	10	10	10		
32	Director of Information Services	5			5	5	5	5	5	5		
33	Director of Intergovernmental Affairs	5			5	5	5	5	5	5		
34	Director of Office of the Mayor	5			5	5	5	5	5	5		
35	Director of Office of the City Clerk	5			5	5	5	5	5	5		
36	Director of Office of the City Attorney	5			5	5	5	5	5	5		
37	Director of Office of the City Auditor	5			5	5	5	5	5	5		
38	Director of Office of the City Engineer	5			5	5	5	5	5	5		
39	Director of Office of the City Planner	5			5	5	5	5	5	5		
40	Director of Office of the City Historian	5			5	5	5	5	5	5		
41	Director of Office of the City Librarian	5			5	5	5	5	5	5		
42	Director of Office of the City Archivist	5			5	5	5	5	5	5		
43	Director of Office of the City Records Manager	5			5	5	5	5	5	5		
44	Director of Office of the City Information Officer	5			5	5	5	5	5	5		
45	Director of Office of the City Public Information Officer	5			5	5	5	5	5	5		
46	Director of Office of the City Press Secretary	5			5	5	5	5	5	5		
47	Director of Office of the City Spokesperson	5			5	5	5	5	5	5		
48	Director of Office of the City Liaison	5			5	5	5	5	5	5		
49	Director of Office of the City Outreach	5			5	5	5	5	5	5		
50	Director of Office of the City Engagement	5			5	5	5	5	5	5		
51	Director of Office of the City Advocacy	5			5	5	5	5	5	5		
52	Director of Office of the City Policy	5			5	5	5	5	5	5		
53	Director of Office of the City Research	5			5	5	5	5	5	5		
54	Director of Office of the City Analysis	5			5	5	5	5	5	5		
55	Director of Office of the City Evaluation	5			5	5	5	5	5	5		
56	Director of Office of the City Monitoring	5			5	5	5	5	5	5		
57	Director of Office of the City Assessment	5			5	5	5	5	5	5		
58	Director of Office of the City Review	5			5	5	5	5	5	5		
59	Director of Office of the City Audit	5			5	5	5	5	5	5		
60	Director of Office of the City Inspection	5			5	5	5	5	5	5		
61	Director of Office of the City Investigation	5			5	5	5	5	5	5		
62	Director of Office of the City Inquiry	5			5	5	5	5	5	5		
63	Director of Office of the City Question	5			5	5	5	5	5	5		
64	Director of Office of the City Demand	5			5	5	5	5	5	5		
65	Director of Office of the City Requirement	5			5	5	5	5	5	5		
66	Director of Office of the City Expectation	5			5	5	5	5	5	5		
67	Director of Office of the City Hope	5			5	5	5	5	5	5		
68	Director of Office of the City Wish	5			5	5	5	5	5	5		
69	Director of Office of the City Dream	5			5	5	5	5	5	5		
70	Director of Office of the City Vision	5			5	5	5	5	5	5		
71	Director of Office of the City Imagination	5			5	5	5	5	5	5		
72	Director of Office of the City Creativity	5			5	5	5	5	5	5		
73	Director of Office of the City Innovation	5			5	5	5	5	5	5		
74	Director of Office of the City Invention	5			5	5	5	5	5	5		
75	Director of Office of the City Discovery	5			5	5	5	5	5	5		
76	Director of Office of the City Exploration	5			5	5	5	5	5	5		
77	Director of Office of the City Investigation	5			5	5	5	5	5	5		
78	Director of Office of the City Research	5			5	5	5	5	5	5		
79	Director of Office of the City Analysis	5			5	5	5	5	5	5		
80	Director of Office of the City Evaluation	5			5	5	5	5	5	5		
81	Director of Office of the City Monitoring	5			5	5	5	5	5	5		
82	Director of Office of the City Assessment	5			5	5	5	5	5	5		
83	Director of Office of the City Review	5			5	5	5	5	5	5		
84	Director of Office of the City Audit	5			5	5	5	5	5	5		
85	Director of Office of the City Inspection	5			5	5	5	5	5	5		
86	Director of Office of the City Investigation	5			5	5	5	5	5	5		
87	Director of Office of the City Inquiry	5			5	5	5	5	5	5		
88	Director of Office of the City Question	5			5	5	5	5	5	5		
89	Director of Office of the City Demand	5			5	5	5	5	5	5		
90	Director of Office of the City Requirement	5			5	5	5	5	5	5		
91	Director of Office of the City Expectation	5			5	5	5	5	5	5		
92	Director of Office of the City Hope	5			5	5	5	5	5	5		
93	Director of Office of the City Wish	5			5	5	5	5	5	5		
94	Director of Office of the City Dream	5			5	5	5	5	5	5		
95	Director of Office of the City Vision	5			5	5	5	5	5	5		
96	Director of Office of the City Imagination	5			5	5	5	5	5	5		
97	Director of Office of the City Creativity	5			5	5	5	5	5	5		
98	Director of Office of the City Innovation	5			5	5	5	5	5	5		
99	Director of Office of the City Invention	5			5	5	5	5	5	5		
100	Director of Office of the City Discovery	5			5	5	5	5	5	5		

Project Activity 27b. Survey (SUE) (Firm)

Estimator: Jerry Comellas, Jr., ECHO UES		(Drop down box)		Polk County - Carter and Christina Intersection Improvements						2022-087; TWO # ?	
Representing		Print Name								Signature / Date	
Polk County:		Jerry Comellas, Jr., PE									
Consultant-ECHO (Firm Initials)											
Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments	
27.1	Horizontal Project Control (HPC)									THIS TAB IS FOR SURVEY (SUE) ONLY . SEE "27a. Survey (Non-SUE)" tab for all other Survey Tasks.	
	2-Lane Roadway	Mile			0.00		0.00		0.00		
	Multi-lane Roadway	Mile			0.00		0.00		0.00		
	Interstate	Mile			0.00		0.00		0.00		
27.2	Vertical PC / Bench Line									Update distribution percentages on lower half of "Staff-Hour Summary - Grand Total" tab.	
	2-Lane Roadway	Mile			0.00		0.00		0.00		
	Multi-lane Roadway	Mile			0.00		0.00		0.00		
	Interstate	Mile			0.00		0.00		0.00		
27.3	Alignment and Existing R/W Lines	Mile			0.00		0.00		0.00		
27.4	Aerial Targets			Units/Day							
	2-Lane Roadway	EA			0.00		0.00		0.00		
	Multi-lane Roadway	EA			0.00		0.00		0.00		
	Interstate	EA			0.00		0.00		0.00		
27.5	Reference Points	"A"		Units/Day							
	2-Lane Roadway	EA			0.00		0.00		0.00		
	Multi-lane Roadway	EA			0.00		0.00		0.00		
	Interstate	EA			0.00		0.00		0.00		
	Reference Points	"B"		Units/Day							
	Non Alignment Points/Approximate	EA			0.00		0.00		0.00		
27.6	Topography/DTM (3D)	Mile			0.00		0.00		0.00		
27.7	Planimetric (2D)	Mile			0.00		0.00		0.00		
27.8	Roadway Cross-Sections/Profiles	Mile			0.00		0.00		0.00		

Project Activity 27b. Survey (SUE) (Firm)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.9	Side Street Surveys									
		Mile			0.00		0.00		0.00	
27.10	Underground Utilities									<p>Designating (Toneable-SUE QLB): Horizontally locate all existing, toneable and non-toneable, underground utilities within the Carter and Christina Intersection Improvement project limits in order to appropriately address design elements (i.e. mast arm signal foundations, pedestrian signal pole foundations, and drainage structures) that may conflict with the existing underground utilities = Eight (8) underground utilities x 2,470 LF = 19,760 LF (3.742 miles) of utilities.</p> <p>Locating (Potential Utility Conflicts-SUE QLA): Horizontally and Vertically locate existing underground utilities on the designated utilities as requested by the pmme consultant and where potential utility conflicts with the following proposed design elements, utilizing vacuum excavation equipment (Four (4) mast arm foundations (20THs), Eight (8) pedestrian pole foundations (16THs), Four (4) drainage structures (12THs) = 48 test holes</p> <p>Surveying: Survey and map all designated and located existing underground utilities.</p>
	Designates	Mile	3.742	1.51	5.65	2.00	11.30	3.00	16.95	
	Locales	Point	48	0.125	6.00	1.00	6.00	2.00	12.00	
	Survey	%	25%	11.65	2.91	2.00	5.82	3.00	8.73	
SUE Sub-total:					14.56					
27.11	Outfall Survey									
		Mile			0.00		0.00		0.00	
27.12	Drainage Survey			Units/Day						
		EA			0.00		0.00		0.00	
27.13	Bridge Survey									
	Minor / Major	EA			0.00		0.00		0.00	
27.14	Channel Survey									
		EA			0.00		0.00		0.00	
27.15	Pond Site Survey									
		EA			0.00		0.00		0.00	
27.16	Mitigation Survey									
		Mile			0.00		0.00		0.00	
27.17	Jurisdiction Line Survey									
		Mile			0.00		0.00		0.00	
27.18	Geotechnical Support			Units/Day						
		EA			0.00		0.00		0.00	
27.19	Sectional / Grant Survey									
		Comer			0.00		0.00		0.00	

Project Activity 27b. Survey (SUE) (Firm)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
		Mile			0.00		0.00		0.00	
27.20	Subdivision Location									
		Block			0.00		0.00		0.00	

Project Activity 27b. Survey (SUE) (Firm)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.21	Maintained RW									
		Mile			0.00		0.00		0.00	
27.22	Boundary Survey									
		EA			0.00		0.00		0.00	
27.23	Water Boundary Survey									
		EA			0.00		0.00		0.00	
27.24	R/W Staking / R/W Line									
		EA			0.00		0.00		0.00	
		Mile			0.00		0.00		0.00	
27.25	R/W Monumentation									Usually authorized as a post-construction Optional Service. If so, exclude it from original contract estimates and negotiations documentation, or keep on separate forms.
		Point			0.00		0.00		0.00	
27.26	Line Cutting									
		Mile			0.00					
27.27	Work Zone Safety					Conversions				MOT for lane closures
	Designates		5.65	0.1250	0.7063	= 5.65 hr.	= 339 min.			
	Locates		6.00	0.1250	0.7500	= 6 hr.	= 360 min.			
	Survey		2.91	0.1250	0.3600	= 2.88 hr.	= 173 min.			
	SUE Sub-total:		14.56		1.8163	:Total Work Zone Safety				
27.28	Miscellaneous Surveys									
					0.00		0.00		0.00	
27b. Survey (SUE Sub-total)				Crew Days (Designate)	6.36	Field Support Hours	11.30	Office Support Hours	16.95	Crew Days (Designate) @ (5.65) + Work Zone Safety @ (0.7063) = 6.36 Crew Days
			Crew Days (Locates)	6.75	6.00		12.00		Crew Days (Locates) @ (6) + Work Zone Safety @ (0.75) = 6.75 Crew Days	
			Crew Days (Survey)	3.27	5.82		8.73		Crew Days (Survey) @ (2.91) + Work Zone Safety @ (0.36) = 3.27 Crew Days	
			(Work Zone Safety, Check)	1.82	Check		23.12		Check	37.68

Project Activity 27b. Survey (SUE) (Firm)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
27.29	Supplemental Surveys									THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT LOCATION SURVEYOR AND / OR HIS DESIGEE.
	Designate		0%	6.36	0.00		0.00		0.00	
	Locates		0%	6.75	0.00		0.00		0.00	
	Survey		0%	3.27	0.00		0.00		0.00	
27.30	Document Research	Units								
			0.00						0.00	
27.31	Field Reviews	Units								
			0.00						0.00	
27.32	Technical Meetings	LS								DO NOT manually input specific values on this row. This line will be automatically computed by the tabulation at the bottom of this tab.
			0.00						0.00	
27.33	Quality Assurance / Quality Control	LS						0%	0.00	
27.34	Supervision	LS						0%	0.00	
27.35	Coordination	LS						0%	0.00	
27b. Survey (SUE) Total				Crew Days (Designate)	6.4	Field Support Hours	23	Office Support Hours	38	
				Crew Days (Locates)	6.8					
				Crew Days (Survey)	3.3					
Total Hours (Field & Office Support)=									61	Field + Office Support= 61

Project Activity 27b. Survey (SUE) (Firm)

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support Hours / Crew Days	Field Support Hours	Office Support Hours / Crew Days	Office Support Hours	Comments
Technical Meetings		Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required? <i>(drop down box (Yes / No))</i>		Number	Comments	
	Kickoff Meeting with FDOT	EA	0	0	0	No		0	Columns D and E are for meetings for technical staff.	
	Baseline Approval Review	EA	0	0	0	No		0	"	
	Network Control Review	EA	0	0	0	No		0	"	
	Vertical Control Review	EA	0	0	0	No		0	"	
	Local Governments (cities, counties)	EA	0	0	0	No		0	"	
	Final Submittal Review	EA	0	0	0	No		0	"	
	Other Meetings	EA	0	0	0	No		0	"	
Subtotal Technical Meetings					0	Subtotal PM Meetings		0		
	Progress Meetings (if required by FDOT)	EA	0	0	0	**		--	** Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3	
	Phase Review Meetings	EA	0	0	0	**		--	** Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3	
Total Meetings			Carries to 27.32=		0	Total PM Mtgs (carries to Tab 3)=		0		



EXHIBIT B

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

Drainage HDR Engineering, Inc. Exhibit B

Classification	Range of Direct Labor Rates		Range of Hourly Billing Rates	
	From	To	From	To
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

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. Subcontractor Services | Actual Costs |
| 2. Travel & Mileage Expenses | In accordance with Chapter 112.061, F.S.; and further defined in the Polk County Employee Handbook for pre-approved out-of-county travel (excluding travel from home offices located outside of Polk County to the Polk County line). |
| 3. Pre-approved Equipment
(includes purchase and rental of equipment used in project) | Actual Costs |