

**Clay County Agreement/Contract No. 2019/2020 – 196 AM7**

**SEVENTH AMENDMENT TO AGREEMENT FOR OWNER’S REPRESENTATIVE  
SERVICES FOR 2020 TRANSPORTATION BOND PROGRAM  
[WGI, INC.]**

This Seventh Amendment to Agreement for Owner’s Representative Services for 2020 Transportation Bond Program (“Seventh Amendment”) is made and entered into on this 19 day of July, 2023 by and between Clay County, a political subdivision of the State of Florida (the “County”) and WGI, Inc., a Florida Profit Corporation (“Owner Rep”).

**RECITALS**

**WHEREAS**, on September 8, 2020, the parties entered into an Agreement for Owner’s Representative Services for 2020 Transportation Bond Program (“Bond Program”), Clay County Agreement/Contract No. 2019/2020-196 (“Agreement”), which is incorporated herein by reference, wherein the Owner Rep agreed to serve as the County’s owner’s representative in relation to the Bond Program; and

**WHEREAS**, the Bond Program is comprised of seven roadway Projects identified as follows:

- 1) Project No. 1: CR218 from Cosmos Ave. to Pine Tree Lane
- 2) Project No. 2: CR 209 from Highway 17 to CR 315B
- 3) Project No. 3: CR 209 from Sandridge Road to CR 315B
- 4) Project No. 4: Sandridge Road from Henley Road to CR 209
- 5) Project No. 5: CR 220 from Baxley Road to Henley Road
- 6) Project No. 6A: First Coast Connector, Maryland Ave. (CR 315) to Highway 17
- 7) Project No. 6B: First Coast Connector, SR 23 to Maryland Ave. (CR 315); and

**WHEREAS**, the categories of Services to be provided by the Owner Rep in relation to these seven Projects are as follows:

- 1) Program Wide Management Services
- 2) Design Criteria Package Services for Design Build
- 3) Program Wide Right of Way Acquisition Services
- 4) CMAR Wide Stormwater and Environmental Strategy Services
- 5) CMAR Wide Surveying Services
- 6) Program Wide Construction Engineering and Inspection (“CEI”) Services
- 7) Program Wide Reimbursables Services; and

**WHEREAS**, on February 23, 2021, the parties entered into the First Amendment to the Agreement, incorporated herein by reference, to remove all references to subcontractor Birchfield and Humphrey, Inc., its associated legal services, and all associated costs; and

**WHEREAS**, on January 19, 2022, the parties entered into the Second Amendment to the

Agreement, incorporated herein by reference, to provide an additional means for payment related to appraisal work completed by the subcontractor, CBRE Group, Inc. based on its unit rates; and

**WHEREAS**, on March 8, 2022, the parties entered into the Third Amendment to the Agreement, incorporated herein by reference, to amend the scope of services to provide for Owner Rep Services in the total amount of \$95,197.88 in relation to the roundabout study, typical analysis, and Sandridge realignment in connection with CMAR Group #1, Project 3 of the Bond Program; and

**WHEREAS**, on March 8, 2022, the parties entered into the Fourth Amendment to the Agreement, incorporated herein by reference, to include a new roadway project under the Agreement identified as CR 218 from Carter Spencer Road to Cosmos Ave. to be paid by the County using Impact Fee District 2 funding; and

**WHEREAS**, on September 26, 2022, the parties entered into the Fifth Amendment to the Agreement, incorporated herein by reference, to include Cultural Resource Assessment Survey (CRAS) as required by the St. Johns River Water Management District in relation to CMAR Group #2, Project 2 in the total amount of \$28,890.57, create a new subcategory under Service category 1 called “Cultural Resource Assessment” for the Owner Rep to provide support services in relation to these surveys/reports, amend Article 8.1 to add SEARCH, Inc. as a subcontractor under the Agreement, amend Composite Attachment G to provide for a CPI rate adjustment for the rates associated with the cost reimbursement Services for FY 22/23, amend Article 9.1 to increase the total not to exceed amount to account for the CRAS Services, and amend Article 9.2 A-G to reference Attachment F instead of the amounts; and

**WHEREAS**, on October 25, 2022, the parties entered into the Sixth Amendment to the Agreement, incorporated herein by reference, to include additional Services to be performed by the Owner Rep under the Service categories for Program Wide Management, Design Criteria Package for Design Build, Program Wide Right of Way Acquisition, CMAR Wide Stormwater and Environmental Strategy, and CMAR Wide Surveying related to design services and support, permitting support, and right of way/establishment of right of way monumentation and plat creation in the total amount of \$3,532,555.78; and

**WHEREAS**, Article 3 of the Agreement provides that if the County identifies or the Owner Rep recommends any additional services to be provided by the Owner Rep that are not covered under the Agreement but are beneficial to the Bond Program, such additional services, including scope, timing, and fees of any additional services must be mutually agreeable between the County and the Owner Rep and be made a part of this Agreement by a written amendment; and

**WHEREAS**, effective May 10, 2023, the Design-Build Agreement for the design and construction of Project #1 of the Bond Program was mutually terminated between the County and the design-build contractor; and

**WHEREAS**, the County desires to move forward with a design-bid-build for Project #1 of the Bond Program with Owner Rep providing additional services for the conventional design-

bid-build to include finalizing the design with a modified scope, permitting, utility coordination, right of way, assisting the County with a bid for the construction, and post design services in the total amount of \$967,981.64; and

**WHEREAS**, due to reductions in scope and construction duration, it has been determined that CEI Services allocated to Project #1 and to Project #3 can be reduced by (-\$300,000) for each Project for a total reduction of (-\$600,000) under the Service category for Program Wide CEI Services as reflected in the amended Schedule of Values attached hereto as **Attachment F**; and

**WHEREAS**, due to design and scope adjustments, it has been determined that Right of Way Services for Projects 1, 3, and 5 can be reduced as follows: Project #1 can be reduced by (-\$150,000), Project #3 can be reduced by (-\$150,000), and Project #5 can be reduced by (-\$67,981.64) for a total reduction of (-\$367,981.64) under the Service category for Program Wide Right of Way Acquisition as reflected in the amended Schedule of Values attached hereto as **Attachment F**; and

**WHEREAS**, the additional services for the design-bid-build for Project #1 in the total amount of \$967,981.64 and the reductions made to the Service categories for Program Wide Right of Way Acquisition and Program Wide CEI Services in the total amount of (-\$967,981.64) results in a zero cost amendment to the total not to exceed amount under the Agreement, as amended; and

**WHEREAS**, the parties desire to enter into this Seventh Amendment to amend the scope of services for Project #1 from a design-build to a design-bid-build Project, provide for additional services to be performed by the Owner Rep in relation to the design-bid-build of Project #1, reduce certain amounts under the Service categories for Program Wide Right of Way Acquisition and Program Wide CEI Services, amend **Attachment D** (Summary of Services), and amend **Attachment F** (Schedule of Values) as set forth herein.

**NOW THEREFORE**, in consideration of the foregoing Recitals, the mutual covenants and promises set forth herein, and for other good and valuable consideration, the receipt of which is hereby acknowledged and all objections to the sufficiency and adequacy of which are hereby waived, the parties agree as follows:

1. The above recitals are true and correct and are incorporated herein by reference.
2. The Agreement, as previously amended, is hereby amended to amend the scope of services for Project #1 from a design-build to a design-bid-build Project. The Owner Rep shall perform Services for the design-bid-build of Project #1 to include finalizing the design with a modified scope, permitting, utility coordination, right of way, assisting the County with a bid for the construction, and post design services in the total amount of \$967,981.64 as reflected in the amended Summary of Services attached hereto as **Attachment D** and the amended Schedule of Values attached hereto as **Attachment F**. The estimated work effort for these Services is attached to this Seventh Amendment as **Attachment H**.

3. The Agreement, as previously amended, is further amended to reduce CEI Services for Projects 1 and 3 by (-\$300,000) each for a total reduction of (-\$600,000) under the Service category for Program Wide CEI Services and to reduce Right of Way Services for Project #1 by (-\$150,000), Project #3 by (-\$150,000), and Project #5 by (-\$67,981.64) for a total reduction of (-\$367,981.64) under the Service category for Program Wide Right of Way Acquisition which results in a net reduction of (-\$967,981.64) to the Agreement amount as reflected in the amended Summary of Services attached hereto as **Attachment D** and the amended Schedule of Values attached hereto as **Attachment F**.

4. Attachment D (Summary of Services) to the Agreement, as amended, is hereby removed and replaced in its entirety with **Attachment D** (Summary of Services) attached hereto. Amended **Attachment D** amends the following four Service categories: Program Wide Management Services, Design Criteria Package Services for Design Build, Program Wide Right of Way Acquisition Services, and Program Wide CEI Services. It also adds a new subcategory under Program Wide Management Services for post design services and two new subcategories under Design Criteria Package Services for Design Build for CCUA plan and S&PM, signal, lighting analysis and plans.

5. **Composite Attachment E** (Draft Schedules for the Projects) is hereby amended to include the draft Schedule for the design-bid-build of Project #1 with the remainder of Composite Attachment E remaining the same. Within ten days of the date first set forth above, the Owner Rep shall provide to the Program Administrator for review and approval a final Schedule for the design-bid-build of Project #1 which shall be incorporated into the Master Program Plan and Schedule.

6. Attachment F (Schedule of Values) to the Agreement, as amended, is hereby removed and replaced in its entirety with **Attachment F** (Schedule of Values) attached hereto which amends the amounts to include the services for the design-bid-build for Project #1 and reduces the amounts for certain Projects under the Service categories for Program Wide Right of Way Acquisition and Program Wide CEI Services resulting in a zero cost amendment to the total not to exceed amount under the Agreement.

7. All provisions in the Agreement and any amendments, attachments, schedules or exhibits thereto in conflict with this Seventh Amendment shall be and hereby are changed to conform to this Seventh Amendment.

8. Except as expressly provided herein, all other terms and conditions of the Agreement, as amended, not affected by this Seventh Amendment are incorporated herein and shall remain in full force and effect.

9. The parties agree to utilize electronic signatures and that the digital signatures of the parties set forth below are intended to authenticate this Seventh Amendment and have the same force and effect as manual written signatures. Each person signing on behalf of the parties represents and warrants that he/she has full authority to execute this Seventh Amendment on behalf of such party and that the Seventh Amendment will constitute a legal and binding obligation of such party.

IN WITNESS WHEREOF, the parties hereto have executed this Seventh Amendment to the Agreement as of the date and year first written above.

**WGI, INC.**

By: *Gregory Sauter*  
Gregory Sauter  
Its President

**CLAY COUNTY, a political subdivision of the State of Florida**

By:   
Howard Wanamaker (Jul 19, 2023 18:39 EDT)  
Howard Wanamaker  
County Manager on behalf of the  
Board of County Commissioners

Total Amount	\$15,187,178.69
AM1	No Price Change
AM2	No Price Change
AM3	\$ 95,197.88
AM4	Impact Fee District 2 Funding
AM5	\$ 28,890.57
AM6	\$ 3,532,555.78
AM7	Zero Cost Amendment
Adjusted Total Amount	\$18,843,822.92

**ATTACHMENT D**

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## ATTACHMENT D

### SUMMARY OF SERVICES

The Owner Rep shall provide Services as detailed in the Agreement, the RFQ Scope of Services attached as Attachment B to the Agreement, and the Owner Rep's Response attached as Attachment C to the Agreement. This Summary of Services is to set forth the associated cost reimbursable and lump sum amounts for the seven categories of Services agreed upon by the parties to ensure performance of the Services as described in the table below:

	<b>Service Categories</b>	<b>Contract Amounts</b>
1	Program Wide Management	Cost Reimbursable \$6,801,642.69
2	Design Criteria Package for Design Build (DB)	Cost Reimbursable \$2,343,725.59
3	Program Wide Right of Way Acquisitions	Cost Reimbursable \$3,767,322.06
4	CMAR Wide Stormwater and Environmental Strategy	\$636,757.17
5	CMAR Wide Surveying	Lump Sum \$633,677.71
6	Program Wide Construction Engineering Inspection (CEI)	Lump Sum \$4,506,835.23
7	Program Wide Reimbursables	Cost Reimbursable \$153,862.48
	<b>TOTAL OWNER'S REP FEE</b>	<b>\$18,843,822.92</b>

Each service category has been further divided into subcategories by the parties to reflect the work effort to be performed under each service category and the associated cost within each service category. The following tables for each service category identify the subcategories and associated contract amount and are followed by a description of work effort attributed to the subcategories.

## SERVICE CATEGORY 1 - PROGRAM WIDE MANAGEMENT

<b>Category</b>	<b>Contract Amount</b>	<b>Comments</b>
Roadway Reviews (Support)	\$966,693.83	All DB Projects and CMAR Projects oversight
Drainage Reviews (Support)	\$545,714.07	Technical oversight services for all DB Projects and CMAR Projects
Utility Verification (Support)	\$304,090.02	Technical oversight services for all DB Projects and CMAR Projects
Geo-Tech (Support)	\$115,781.32	Technical oversight services for all DB Projects and CMAR Projects
Public Involvement (GIS Support)	\$73,301.02	Support services for all DB Projects and CMAR Projects
Cultural Resource Assessment	\$183,723.33	Support services for all DB and CMAR projects
Program Management	\$4,100,947.02	All DB Projects and CMAR Projects
Project Controls	\$387,480.01	HDR – Subcontractor services for all DB Projects and CMAR Projects
Post Design	\$123,912.08	CR 218 Post Design Services during Construction
<b>Sub-Total Program Wide Management Services</b>	<b>\$6,801,642.69</b>	

### **DESCRIPTION:**

The Services to be provided under the Program Wide Management Service Category include, but are not limited to, professional services necessary to manage the study, design, right of way acquisitions/relocations, construction and inspections of the Bond Program and are divided into the following described subcategories.



#### Roadway Reviews:

These Services are program wide support services for all seven Projects and are described as tracking and close-out of all comments and responses related to each Project through the entire design review process for Project plans and Project submittals, including design exceptions and quality control assurance reviews to include the technical review of plans and supporting documentation for all seven Projects at 30%, 60%, 90%, and 100% submittals. Design analysis as required for recommendations for cost savings or to meet the scope of the project. Prepare for and attend meetings related to design guidance including MOT, quantities, and interface issues.

#### Drainage Reviews:

These Services are for technical oversight review support services for all seven Projects and are described as services to determine all Project drainage design and construction methods in accordance with standard drainage practices (see the most current edition of the FDOT Drainage Manual for reference). These Services also include the technical review of plans and supporting documentation for all seven Projects at 30%, 60%, 90%, and 100% submittals. Design analysis as required for recommendations for cost savings or to meet the scope of the project. Prepare for and attend meetings related to design guidance including stormwater and drainage systems, shared use ponds, and coordination with permitting agencies such as SJRWMD and DEP.

#### Utility Verification:

These Services are for technical oversight review support services for all seven Projects and are described as the process of obtaining all utility information available to develop a plan which incorporates all utilities (electric, water, wastewater, communications, data and gas) into the Project(s) work plan which includes all existing aerial and underground utilities. The plan includes reviewing permits for applicability and completeness, tracking each permit through each project, work with utility agencies to ensure timely deliverable of existing conditions or planned improvements, and confirming final work to the satisfaction of the county. This addendum includes finalizing the CR 218 Utility Work Schedule for a conventional design bid build project.

#### Geo-Tech:

These Services are for technical oversight review support services for all seven Projects and are described as using principles of soil mechanics to investigate subsurface conditions and materials; determining the relevant physical/mechanical and chemical properties of these materials; evaluating stability of natural slopes and man-made soil deposits; assessing risks posed by site conditions; designing earthworks and structure foundations; monitoring site conditions, earthwork and foundation construction; reviewing Geo-tech scopes, reports and recommendations; and providing feedback and recommendations to the Program Administrator.

#### Public Involvement (GIS Support):

These Services, which may be requested by the County, are program wide support services

for all seven Projects and may consist of public outreach; assisting the County with developing a Program Wide Public Outreach Plan; attending and participating in public meetings and workshops related to public awareness, preparing flyers, brochures, and hand-outs; notifying media sources of Project actions; and performing any other related awareness/communication services if authorized by the Program Administrator.

#### Cultural Resource Assessment

Prepare a Cultural Resource Assessment Survey/Report for each project as required by the permitting agency(s).

#### Program Management:

These Services are program wide support services for all seven Projects and are described as:

- Schedule: Per the Agreement, establish a Master Program Plan and Schedule consisting of individual plans and schedules for each Project based on the following Project groupings, and throughout the Bond Program review schedule and sequencing and provide recommendations:
  - a. Conventional Project #1, CR 218 – Mimosa Ave to Pine Tree Lane:
    - Deliver as a Conventional Design-Bid- Build
  - b. Design Build Project #6B, First Coast Connector (FCC) – new road connecting CR 315 to First Coast Expressway (FCE):
    - Deliver as a low-bid Design Build
  - c. CMAR Project Group #1
    - Project #3, Russell Road (CR 209) – Sandridge Road to CR 315B
    - Project #4, Sandridge Road – Henley Road to Russell Road (CR 209)
  - d. CMAR Project Group #2
    - Project #2, CR209 – US 17 to CR 315B
    - Project# 5, CR 220 – Baxley Road to Henley Road
    - Project #6A, CR 315 – US 17 to Project #6B (FCC)
  - e. Draw from the Master Program Plan and Schedule to establish and monitor individual Project scheduling requirements and major milestone/critical path events for engineering/ construction activities such as the following:
    - Review, coordinate and manage Project consultants and contractors.
    - Review design development compliance with approved Project design criteria.
    - Oversee the work between Design Consultants and CMARs as they work together to develop Project budgets and ultimately GMP's.
    - Develop scope of work and special contract provisions.
    - Review Project consultants progress reports and review and recommend approval of Project consultants' and contractors' invoices.

- Provide oversight and support services during the construction period to ensure compliance with contract documents and industry best practices.
- Budget: Review and update conceptual budget and scope; Establish financial accounting systems, advise the County of projected funding needs monthly, perform cash flow analyses, and validate program requirements and budgets for financial/accounting support, general administrative, and professional support; Develop baseline Cash Flow metric (specifically linking Program Wide Funding to the detailed Project activity and projected needs) that will be updated throughout the life of the Bond Program; Develop a baseline Master Program Budget, Schedule and Cash Flow that is a living document and develop metric-based Program Management dashboards. Incorporate mobility fee credits, interest income, and other sources into budget and plan for availability for construction payments. Support the County in an effort to apply for additional funding sources.
- Project Services Support:
  - a. Develop design documentation to support each project which may include typical section development and/or changes, alignment changes due to new or changing information. Prepare roundabout layout at locations deemed appropriate for its consideration. Prepare shared use pond analysis or other drainage analysis to support changing conditions, or changing approaches to the project
  - b. Prepare white papers as needed to support shared use ponds, location of County facilities, or other analyses as requested by the County.
  - c. Prepare a Cultural Resource Assessment Survey/Report for each project as required by the permitting agency(s).
  - d. Provide document controls and filing systems, establish Project schedules, conduct production meetings, provide status reports, and other general administrative services.
  - e. Review scope of services for Project design, review contract agreements, provide baseline surveying, right of way mapping and legal descriptions, and prepare paperwork and documentation necessary for submittal to the County's Board of County Commissioners.
  - f. Coordinate the timing of the roadway construction, including analysis of other construction that may impact the roadways to determine the most efficient means and timing to conduct the work to minimize the impact on the public.
  - g. Use proactive management and technical oversight in all areas of planning through construction to ensure success in delivery of the Projects within budget and on-time before the mandated deadlines.
  - h. Establish Project controls protocols and coordinate with County Administrative Staff on how to make the linkages as seamless as possible:
    - Accounting Systems
    - Purchasing and Procurement Systems
    - Project Scheduling and Tracking Systems

- Meetings
  - a. Attend progress meetings to status the program and report progress.
  - b. Hold regularly scheduled meetings with team members to coordinate with partners, assign responsibility, and track progress.
  - c. Attend BOCC meetings to report progress and provide material as needed.
  - d. Prepare for and attend quarterly meetings with the County senior leadership team to report progress and receive guidance on proper implementation of the program.
  - e. Prepare for and attend meetings with developers including for geometric coordination as well as design and permitting requirements for stormwater system design.
- Risk Management:
  - a. Develop a Risk Profile and prepare a Risk Management Plan and maintain a Risk Register from task authorization through completion of the Bond Program. Risk assessment will be discussed weekly with the County so the County and the Owner Rep are aware of the current exposure and probability and continue to effectively address issues.
  - b. Consider all potential risks, including, but not limited to, COVID-19 and any other infectious disease outbreak, cybersecurity, and natural disasters/extreme weather such as hurricanes, etc.
  - c. Work with the County to establish response protocols and hold industry forums to communicate with the industry and seek feedback to mitigate any potential risks.
- Right of Way: Review the existing right of way and establish an acquisition strategy that includes an evaluation of the proposed typical section for each Project to determine if alternatives might yield less right of way impacts.
- Design Build Project (CR 216 Cathedral Oak Parkway)
  - a. For design-build work, perform constructability review; perform geotechnical advisory support; and perform surveying support.
  - b. Conduct an in-depth constructability review and conduct a Quality Control (QC) pre-construction meeting to review specifications, outline testing procedures, review responsibilities, and resolve contractor questions.
  - c. Review Project schedules against FDOT or other Project improvements to coordinate traffic control plans and other Project coordination.
  - d. Implement partnering in improving communications, increasing trust, managing goals, and expediting decision-making time.
  - e. Assist in value engineering; review periodic progress payment requests;
- Conventional Design Bid Build (CR 218)
  - a. Finalize the CR 218 Plans for Permitting, From Cosmos Ave to Pine Tree Lane
  - b. Prepare plans for Base Bid from Pine Tree Ln to Masters Rd (Omega Park)
  - c. Prepare Alternative Bid Option 1 to Extend the project to Mimosa Ave
  - d. Prepare Alternative Bid Option 2 for Intersection Improvements at Mimosa Ave
  - e. Prepare Alternative Bid Option 3 to Extend the Shared Use Path from Mimosa Ave to Cosmos Ave

- CMAR Projects:
  - a. Assist with selecting two Engineering design consultants (“Design Consultants”) to design the five roadway Projects associated with the two CMAR Projects. This will include, but not be limited to, assisting with preparation of Request for Qualifications, assisting with negotiations with Design Consultants, and assisting with issuing the Notices to Proceed to each Design Consultant.
  - b. Assist with developing the process needed to secure the services of two CMAR entities for the CMAR Projects and assist with negotiations with CMAR entities for pre-construction services.
  - c. While working in conjunction with the Design Consultants and CMARs, Owner Rep, Design Consultants, and CMARS will work together through 100% design developing an Open Estimate Guaranteed Maximum Price (GMP). The Owner Rep will help manage the Design Consultants and CMARs in the development of a set of construction plans with a GMP for each Project.
  - d. Submit the GMP and construction plans for the CMAR Projects to the County for the County’s review and approval. Review and recommend whether the County should continue with the CMARs or competitively bid the Project(s). If the County accepts the GMP, then construction will begin, and the CMAR will become the point of responsibility for construction of its assigned Projects. If the GMP and construction plans are not accepted, the Project(s) will be bid competitively.
- Both Design Build and CMAR Projects:
  - a. Perform preliminary design activities including development criteria, standards and elements that will be transferred to the Design Consultants to establish consistency and assist with the review and negotiation of the design fee proposals, monitor Design Consultants performance; review/comment on the 30%, 60%, 90%, and 100% submittals; review design criteria development compliance; assist in value engineering; review periodic progress payment requests.
  - b. Value engineering will include cost mitigation meetings including review of 60% plans with a full-service design team to investigate changes that will result in cost savings to the County. This may include design analysis including realignment, typical section changes, construction phasing changes, and elimination of scope of work.
  - c. During the construction, provide CEI Services as outlined in Service Category 6, schedule and conduct pre-construction and weekly meetings, enforce construction documents, review shop drawings and RFIs, review and analyze change orders, review monthly progress payment requests, prepare/maintain monthly progress schedules and reports, test construction materials, collect and deliver documents and deliverables prior to recommending final payments, deliver financial accounting reports, and conduct warranty reviews as needed.
  - d. Serve as an expert witness and perform any other design support services.
- CEI Services: Oversee and manage CEI services for all seven Projects.

Project Controls:

These Services are program wide support services for all seven Projects and are described as Project data gathering, management and analytics to predict, understand and constructively influence the time and cost outcomes of the Projects through the communication of information in formats that will assist effective management and decision making of the Bond Program.

## **SERVICE CATEGORY 2 – DESIGN BUILD CRITERIA PACKAGES (DB)**

<b>Categories</b>	<b>Contract Amounts</b>	<b>Comments</b>
Survey (Topo/ Right of Way)	\$429,847.15	Surveying effort to support the preparation of the Design Build Criteria Package and all other needs related to the delivery of Project #1, CR 218 and Project #6B, FCC
Structures (BDR, Bridge Development Report) CR 218 Strain Pole Design	\$147,223.18	All this effort related to Project #6B, FCC over Peter's Creek - preparation of 30% Structures Plans and a Bridge Development Report (BDR) to be included in the Design Criteria Package
Roadway (Conceptual Plans CR 216) (Final Plans for CR 218)	\$568,539.89	Develop a 30% set of plans for both Design Build Projects and secure SJRWMD ERP, Formal Wetland Delineation, and USACE permit
Drainage (Conceptual plans CR 216) (Final Plans for CR 218)	\$165,320.81	Develop a 30% set of plans for both Design Build Projects and secure SJRWMD ERP, Formal Wetland Delineation, and USACE permit
Geotech (Reviews and Borings)	\$216,412.79	For Project 6B, FCC – Roadway borings at every 500 ft. (35 max), 3 bridge borings and one boring per pond (5 max)  CR 218 finalize Geotech Documents
Drainage (Analysis and Permitting)	\$455,947.37	Develop preliminary drainage basins, ponds and bridge hydraulics report as needed to secure SJRWMD ERP, Formal Wetland Delineation, and USACE permit
Wetland Delineation	\$243,252.66	Delineate State & Federal jurisdictional wetlands and

		prepare wetland application for SJRWMD and USACE as needed to support the issuance of SJRWMD ERP
CCUA Plans	\$36,791.32	Finalize CCUA Plans for Work by Highway contractor
S&PM, Signal, Lighting Analysis and Plans	\$80,390.41	Final Component Plans Sets
<b>Sub-Total Supporting Professional services to Develop Design Criteria Packages</b>	<b>\$2,343,725.59</b>	

**DESCRIPTION:**

The Services to be provided under the Design Build Criteria Package Service Category include but are not limited to professional services necessary to develop Design Build (DB) and Design Bid Build criteria packages for:

- Project #1, CR 218 –Cosmos Avenue to Pine Tree Lane (Design Bid Build)
- Project #6B, First Coast Connector (FCC) – new road connecting CR 315 to FCE

The Low Bid Design Build delivery method will be used on Project #6B, FCC – FCE to CR 315. It was determined that a low bid Design Build delivery model would allow the County to leverage existing investments on this Project and to immediately begin a process that would lead to an early start on construction activity and shift appropriate risks to the Design Build contractors. Project #1, CR 218 – Cosmos Avenue to Pine Tree Lane will be delivered as a Conventional Design Build Bid, with a Base Bid and alternative bid options.

The design build packages will be designed to a 30% design completion by the Owner Rep. These packages will be of sufficient quality to issue Design Build Request for Proposals and/or Qualifications. The Owner Rep may assist the County through the procurement process. The preparation of the Design Build Criteria Packages will involve the development of design and contract documents of sufficient strength to allow Design Build contractors to evaluate and bring forth competitive responses. The general objective is for the Owner Rep to develop Design Build Request for Proposals and/or Qualifications to be used by the County for procurement of Design Build Firm(s) (DBFs) on the two Project(s). In addition, the Owner Rep will provide Services to support the DB Projects during the DBF procurement effort. The professional Services authorized under this category include due diligence and planning; limited Geotechnical Services; preliminary Engineering Design, preparing bid documentation and assisting in the evaluation of industry responses, including transition into construction



phase services.

The conventional Package will include final construction documents and assistance with the Design Build Bid Request for Proposal in selecting the Qualified Contractor.

The Program Manager will prepare analysis and review of Construction Saving Initiatives (CSI) as submitted by the design-builder from time to time.

**Project #1, CR 218 - Cosmos Avenue to Pine Tree Lane:**

This Project has been previously designed and permitted by others and it is our understanding that Clay County owns the property where the stormwater treatment facility was proposed to be located under that previous set of permitted design documents. However, the St. Johns River Water Management District (SJRWMD) has advised that due to the time that has elapsed between the issuance of the above referenced permit, it has been rendered null and void.

This proposal includes the effort required to secure the SJRWMD ERP, Formal Wetland Delineation, and USACE permit. The Owner Rep will use DB 90% design (drainage system, stormwater management and environmental permitting) as a baseline and revise it as needed to comply with current industry best practices and regulatory requirements. It is anticipated that this effort will include the preparation of drainage maps, stormwater pond sheets, drainage detail sheets, erosion control plans, SWPPP sheets and stormwater calculations that will be signed and sealed as a part of the submittal of SJRWMD ERP and USACE applications. The Owner Rep work effort will involve some of the more detailed effort as described below:

- Review the SJRWMD ERP (17128-4) and USACE permit including any special conditions.
- Review the stormwater management system to determine compliance with current industry best practice and regulatory requirements:
  - a. Drainage maps
  - b. Pond designs
  - c. SWPPP & Erosion Control Plans
  - d. Drainage System Design and adjust as needed for changing conditions
- Conduct field reviews to determine any significant change in condition.
- Wetland delineation and general wildlife surveys for due diligence.
- Perform UMAM analysis on proposed wetland impacts.
- Review of DB permit modification(s) as needed for their design including both early-works plans and their final design adjustments.
- Determine mitigation requirements and develop a mitigation plan.
- Perform plans updates and obtain SJRWMD ERP and USACE permit, including:
  - a. Drainage maps
  - b. Pond detail sheets
  - c. SWPPP and erosion control plans (assumes County will provide CADD files of permitted plans)

- d. Secure the SJRWMD Stormwater ERP, USACE permit, and Formal Wetland Delineation
- e. Concurrence letters from DHR, FWC, & USFWS
- f. RFP preparation assistance (if requested)
- g. Final Construction plans and calculations
- h. Post Design Support

**Project #6B, FCC – FCE to CR 315:**

A preliminary alignment has been established, and the County will obtain from the landowner the Right of Way for the roadway and stormwater ponds. The proposed stormwater ponds will likely be joint use requiring coordination with the proposed development.

- Owner Rep will develop 30% level plans to be able to obtain permits for the Project and include:
  - a. Adjust plans to accommodate requested changes such as typical section, median width, and layout, change in alignment location and addition of roundabout, relocation of the shared use path, joint use ponds and additions of cross drains, and attendance at technical meetings to coordinate the changes.
  - b. Pond Siting analysis to include recommended ponds sites, preliminary storage requirements and acreage. Estimated 5 ponds.
  - c. Preliminary drainage maps on aerials.
  - d. Storm system layout (cross drain preliminary pipe sizes only).
  - e. RFP preparation assistance (if requested).
  - f. Perform 60%, 90% and 100% phase plans and calculations reviews.
  - g. Secure SJRWMD Stormwater ERP, Formal Wetland Delineation and USACE permit.
  - h. Concurrence letters from DHR, FWC, & USFWS
  - i. SWPPP and erosion control plans
  - j. Bridge Hydraulics Report for the Peters Creek Crossing.
  - k. FEMA No-rise Certification for the Peters Creek crossing (It is a FEMA Floodway).
  - l. Jurisdictional agency coordination.
  - m. Bridge Development Report.

The Design Build Service Category is divided into the following subcategories for cost allocation:

**Survey:**

These Services are to support the preparation of the DB package and all other needs related to the delivery of Project #1, CR 218 and Project #6B, FCC with the general statement of work described as:

- Survey work will be in accordance with Rule 5J-17, Florida Administrative Code, pursuant to Chapter 472 of the Florida Statutes.
- Survey work shall adhere to the required work zone safety for each task.

- Vertical control will be based on the North American Vertical Datum of 1988 (NAVD88).
- Horizontal control will be based on the State Plane Coordinate System of 1983, Florida East Zone.
- Existing Right of Way Survey:
  - a. Establish primary horizontal control
  - b. Establish primary vertical control
  - c. Survey of existing right of way based upon supplied right of way maps and adjacent property descriptions (legal descriptions, plats, etc.)
  - d. Right of way maps shall be created of the existing right of way to aid in the creation of property acquisitions, temporary construction easements, etc.
  - e. Project #1, CR 218 - Cosmos Avenue to Pine Tree Lane: Review existing right of way maps and locate existing control to determine current County right of way
  - f. Project #6B, FCC – FCE to CR 315: Prepare maps and stake alignment/right of way (to be staked at 1000' intervals or changes in direction) acquired by the County
- Topographic Survey:
  - a. Establish secondary horizontal/vertical control for LiDAR scans and additional topo
  - b. LiDAR scan of project corridor
    - Task includes the data acquisition, post processing, and extraction
  - c. Topographic survey of obscured areas and pond sites
    - Topographic limits to extend 10 feet past the right of way
  - d. Drainage survey of existing structures
  - e. Bridge survey (if applicable)
  - f. Channel survey (if applicable)
  - g. Jurisdiction line survey (wetlands as flagged by others)
  - h. SUE (CR 218 only)
    - Quality Level "A" (test holes)
    - Quality Level "B" (horizontal designates)
  - i. Project #1, CR 218 - Cosmos Avenue to Pine Tree Lane: Survey of 2.59-mile Project limits to extend 10 feet on either side of the proposed right of way and proposed pond sites
  - j. Project #6B, FCC – FCE to CR 315: Survey of 3.94-mile Project limits to extend 10 feet on either side of the acquired right of way and proposed pond sites; Locate monumentation; locate section corners; Establish R/W monumentation as required by plat

Structures:

These Services are in connection with Project #6B, FCC and include the preparation of 30% Structures Plans and a Bridge Development Report (BDR) to be included in the Design Criteria Package for Project #6B. Additionally, the CR 218 Stain Pole Design at Mimosa Ave will be Finalized.

Roadway:

These Services are for both Project #1, CR 218 and Project #6B, FCC and include the development of a 30% set of plans as well as the securing of the SJRWMD ERP, Formal Wetland Delineation and USACE permit. Final Construction Plans for CR 218 will be provided.

Drainage (30% Plans):

These Services are for both Project #1, CR 218 and Project #6B, FCC and include the development of a 30% set of plans and securing of the SJRWMD ERP, Formal Wetland Delineation, and USACE permit. Final Drainage Plans for CR 218 will be provided.

Geotech:

These Services are for Project #6B, FCC and include roadway borings at every 500 ft. (35 max), 3 bridge borings and one boring per pond (5 max). Final Geotechnical Information for CR 218 will be reviewed.

Drainage (Analysis and Permitting):

These Services are for both Project #1, CR 218 and Project #6B, FCC and include developing preliminary drainage basins, ponds and bridge hydraulics report (BHR) as needed to secure SJRWMD ERP, Formal Wetland Delineation, and USACE permit. Final Drainage analysis and Permit for CR 218 will be acquired.

Wetland Delineation:

These Services are for both Project #1, CR 218 and Project #6B, FCC and are to delineate State & Federal jurisdictional wetlands and prepare wetland application for SJRWMD and USACE as needed to support the issuance of SJRWMD ERP.

**SERVICE CATEGORY 3 – PROGRAM WIDE**  
**RIGHT OF WAY ACQUISITION**

<b>Category</b>	<b>Contract Amount</b>	<b>Comments</b>
Acquisition (HDR & WGI)	\$2,249,649.63	DB Project #1 and CMAR Projects
Appraisal (CBRE)	\$947,225.41	DB Project #1 and CMAR Projects
Legal Description	\$163,806.85	DB Project #1 and CMAR Projects
Environmental Phase I	\$35,970.82	DB Project #1 and CMAR Projects
Environmental Phase II	\$353,745.00	Technical oversight services for DB Project #1 and CMAR Projects
Environmental Phase III	\$5,074.36*	Technical oversight services for DB Projects and CMAR Projects
Title Search (Barrie)	\$11,850.00	Title searches for parcels to be acquired All CMAR projects
<b>Sub-Total Right of Way Acquisition Services</b>	<b>\$3,767,322.06</b>	* is a designated Allowance to be used at the discretion of the County

**DESCRIPTION:**

The Services to be provided under the Right of Way Acquisition Service Category are set forth in the RFQ Scope of Services, Attachment B to the Agreement, and will be subcontracted out by the Owner Rep. The subcontractor(s)' right of way acquisition services shall include but not be limited to all services needed for the County to acquire complete or partial properties for construction and are divided into the following described subcategories for cost allocation:

Acquisition:

These Services are for the acquisition of necessary right of way property for Design Build (DB) Project #1 and the CMAR Projects and are described as including, but not limited to, negotiating purchases; assisting in relocation; preparing suit packages for eminent domain; performing title searches; serving as expert witness; providing recorded deeds; maintaining financial accounting of all real estate transactions; preparing bid packages for demolishing

structures; utility adjustment and relocation needs; permitting requirements; and general site conditions.

Appraisal:

These Services are for any appraisals necessary for acquisition of right of way property for DB Project #1 and the CMAR Projects and are described as including but not limited to performing appraisals and confirming accuracy thereof.

Legal Description:

These Services are for the preparation of the legal descriptions for the acquisitions necessary for DB Project #1 and the CMAR Projects and are described as:

- Boundary rectification surveys shall be completed on parcels that will be affected by acquisitions or easements. Only sufficient field work shall be completed to allow for the County to understand the approximate location of common boundary lines of adjacent parcels. Extensive boundary surveys of each adjacent parcel shall not be performed.
- Legal descriptions of each of the parcels shall be created to be included in the right of way process.
- This phase will not begin until the parcels being affected have been identified.
- Includes staking parcels for appraisals, as requested.
- It is noteworthy that the specific proposal for right of way services provides an outline of the number of parcels that are estimated to be impacted by takings and temporary construction estimates and there is a direct correlation between the number of parcels and the stated fee.
  - a. DB Project #1:
    - CR 218 – Cosmos Avenue to Pine Tree Lane: Number of parcels based on conceptual right of way is 45.
  - b. CMAR Project Group #1:
    - Project #3, Russell Road (CR 209) – Sandridge Road to CR 315B: Number of parcels based on conceptual right of way is 20.
    - Project #4, Sandridge Road – Henley Road to Russell Road (CR 209): Number of parcels based on conceptual right of way is 26.
  - c. CMAR Project Group #2:
    - Project #2, CR 209 – US 17 to CR 315B: Number of parcels based on conceptual right of way is 8.
    - Project #5, CR 220 – Baxley Road to Henley Road: Number of parcels based on conceptual right of way is 14.
    - Project # 6A, CR 315 (FCC) – US 17 to FCC (Project #6B): Number of parcels based on conceptual right of way is 10.
  - d. No legal descriptions or associated survey will be required for DB Project #2-Project #6B, FCC - as the County will acquire the necessary right of way for the road and ponds.

Environmental Phase I:

These Services are for conducting any required environmental phase I in connection with DB Project #1 and the CMAR Projects and are described as identifying and recognizing environmental conditions for the potential of impacts to the Projects.

Environmental Phase II:

These Services are for providing technical oversight services for DB Project #1 and the CMAR Projects if authorized and are described as environmental testing of soils, groundwater, subsurface, and such for environmental impact.

Environmental Phase III\*:

These Services are for providing technical oversight services for the DB Projects and the CMAR Projects if authorized and are described as any remediation services identified through testing in Environmental Phases I and II for the DB Projects and the CMAR Projects.

**SERVICE CATEGORY 4 – CMAR WIDE STORMWATER AND ENVIRONMENTAL STRATEGY**

Category	Contract Amount
Stormwater Strategy	\$245,270.48
Wetland Delineation	\$391,486.69
<b>Sub-Total CMAR Wide Stormwater and Environmental Strategy Services</b>	<b>\$636,757.17</b>

**DESCRIPTION:**

The Services to be provided under the CMAR Wide Stormwater and Environmental Strategy Service Category are divided into two subcategories for cost allocation:

Stormwater Strategy:

These Services are for the CMAR Projects and include, but are not limited to, the following:

- Gather and review existing data including but not limited to historic plans, right of way maps, aerial photography, soil surveys, FEMA maps, topographic data, existing and proposed land uses, wetland areas, etc.
- Field review to document hydrologic and hydraulic features including potential outfalls.
- Preliminary drainage basin maps.
- Pond Siting Analysis Report (recommend pond site, type, acreage required).
- Jurisdictional agency coordination.
- Develop a comprehensive stormwater and wetland permitting strategy, guide Design Consultants through the permitting process, review permit application and documentation packages, and perform any other needed Services.
- Perform shared use pond analysis and recommendations
- Lead contact and communication with agency partners such as SJRWMD and DEP.
- Attend and report at technical meetings.
- Review additional ponds sites as may be required as a result of the right-of-way.
- Review and take into consideration new permits that may affect the progress of Design-build or CMAR projects.

Wetland Delineation:

These Services are for the CMAR Projects and are to identify and flag any jurisdictional wetlands in, along and adjacent to any of the CMAR Projects. To include the realignment of Sandridge Rd and CR 209B.



The above stated effort will be to support and provide assistance to the CMAR Projects as they seek to acquire the stormwater and environmental permits.

## **SERVICE CATEGORY 5 – CMAR WIDE SURVEYING**

<b>Category</b>	<b>Contract Amount</b>
Right of Way Survey	\$256,609.20
Topographic Survey	\$377,068.51
<b>Sub-Total CMAR Wide Surveying Services</b>	<b>Lump Sum \$633,677.71</b>

### **DESCRIPTION:**

The Survey Services to be provided under the CMAR Wide Surveying Service Category are for the CMAR Projects and will be performed either in house by the Owner Rep or subcontracted out by the Owner Rep, with payment on a lump sum basis. The Services shall adhere to the following general principles:

- Survey work will be in accordance with Rule 5J-17, Florida Administrative Code, pursuant to Chapter 472 of the Florida Statutes.
- Survey work shall adhere to the required work zone safety for each task.
- Vertical control will be based on the North American Vertical Datum of 1988 (NAVD88).
- Horizontal control will be based on the State Plane Coordinate System of 1983, Florida East Zone.

The CMAR Project Groups are as follows:

- CMAR Project Group #1:
  - a. Project #3, Russell Road (CR 209) – Sandridge Road to CR 315B -Survey of 2.70-mile project limits to extend 10 feet on either side of the acquired right of way and proposed pond sites. To include the realignment of Sandridge Rd with CR 209 B. Boundary survey for 3 affected parcels; update plat locations; Establish monumentation along plat boundary;
  - b. Project #4, Sandridge Road – Henley Road to Russell Road (CR 209) - Survey of 3.7-mile project limits to extend 10 feet on either side of the acquired right of way and proposed pond sites. Additional topo sites as required for pond site located at school; additional drainage information offsite for updated pond site; and roadway information updates; stakeout for land owner.
- CMAR Project Group #2:
  - a. Project #2, CR 209 – US 17 to CR 315B - Survey of 0.66-mile project limits to extend 10 feet on either side of the acquired right of way and proposed pond sites.
  - b. Project #5, CR 220 – Baxley Road to Henley Road - Survey of 1.28-mile project

limits to extend 10 feet on either side of the acquired right of way and proposed pond sites.

- c. Project # 6A, CR 315 (FCC) – US 17 to FCC (Project #6B) - Survey of 0.83-mile project limits to extend 10 feet on either side of the acquired right of way and proposed pond sites. Additional survey for additional pond sites and roundabout. Locate additional SUE designated by other for roundabout areas. Topo related to additional pond sites and boundary work for property affected.

The CMAR Wide Surveying Service Category and lump sum allocation is divided into the following described subcategories:

Right of Way Survey:

These Services are described as:

- Establish primary horizontal control.
- Establish primary vertical control.
- Survey of existing right of way will be based upon existing right of way maps if available and adjacent property descriptions (legal descriptions, plats, etc.).
- Right of way maps shall be created of the existing right of way to aid in the creation of property acquisitions, temporary construction easements, etc.
- Review existing right of way maps and locate existing control to determine current county right of way.

Topographic Survey:

These Services are described as:

- Establish secondary horizontal/vertical control for LiDAR scans and additional topo.
- LiDAR scan of Project corridor.
  - Task includes the data acquisition, post processing, and extraction.
- Topographic survey of obscured areas and pond sites.
  - Topographic limits to extend 10 feet past the right of way.
    - Drainage survey of existing structures.
    - Bridge survey (if applicable).
    - Channel survey (if applicable).
    - Jurisdiction line survey (wetlands as flagged by others).

**SERVICE CATEGORY 6 – PROGRAM WIDE CONSTRUCTION**  
**ENGINEERING INSPECTION SERVICES (CEI)**

Category	Contract Amount
Inspection Services	\$4,329,410.23
Material Testing	\$ 177,425.00
<b>Sub-Total CEI SERVICES</b>	<b>Lump Sum \$4,506,835.23</b>

**DESCRIPTION:**

The CEI Services to be performed for the lump sum amount are set forth in the RFQ Scope of Services, Attachment B to the Agreement, and will be subcontracted out by the Owner Rep. The subcontractor’s services are intended to provide the professional services necessary to oversee the construction (by others) of all Bond Program Projects. Services are divided into construction inspection and material testing subcategories for the work effort being performed.

Inspection Services:

These Services will specifically include, but not be limited to:

- Review safety measures and perform daily safety review checklists; perform daily inspections and report deficiencies to contractor for immediate correction.
- Monitor contractors’ erosion control practices daily and measure pay item quantities daily.
- Inspect construction work and document the findings in the daily report of construction, review verification testing and perform monthly QC records to confirm appropriate testing and controls are performed and documented.
- Ensure contract compliance with plans, specifications, and other contract documents prior to the end of each shift.
- Conduct bi-weekly meetings with contractors and utility owners, resolve problems that arise in the field, and avoid claims by identifying potential conflicts early.
- Track the Critical Path Method (CPM) schedule during construction and make suggestions to get the Project(s) back on track if schedule is threatened.
- Monitor contractors’ performance on addressing the punch lists and monitor contractors’ completion of all of their obligations under the warranty periods of the contracts.

Material Testing:

These Services encompass the testing necessary to confirm compliance with design requirements for the materials such as concrete testing, asphalt testing, density and moisture testing, etc.

## SERVICE CATEGORY 7 – PROGRAM WIDE REIMBURSABLES

Category	Contract Amount
Software Solutions (ProjectWise, Sharepoint, etc.)	\$33,600.00
Permitting Fees	\$20,000.00
Recording Fees	\$5,500.00
Legal Fees on behalf of the County	\$15,000.00
Direct Costs (printing, mileage, etc.)	\$20,000.00
Misc./ Other Direct Costs	\$59,762.48
<b>Sub-Total Reimbursable</b>	<b>\$153,862.48</b>

### **DESCRIPTION:**

The Program Wide Reimbursables Service Category is to allocate funds for software, permitting fees, recording fees, legal fees on behalf of the County, certain direct costs and any other minor unforeseen associated reimbursable expense(s) as preapproved by the Program Administrator.

The Software Solutions subcategory is for the provision of programs such as ProjectWise and Sharepoint to manage the Bond Program documentation. Owner Rep agrees to grant up to 5 ProjectWise external licenses to Clay County for the length of the Owner Rep Agreement (up to 6 years). The current fee is \$280 a quarter/per license. These licenses can be used by up to 5 assigned staff members for use in connection with the Bond Program on WGI Data Source.

**ATTACHMENT F**  
**SCHEDULE OF**  
**VALUES**

Clay County Owner's Rep								
	1	2	3	4	5	6A	6B	
1) Program Wide Management	CR 218 -DB	CR 209 (Group 2)	CR 209 (Group 1)	Sandridge (Group 1)	CR 220 (Group 2)	CR 315-FCC-6A (Group 2)	FCC-6B (DB)	Check
Roadway Review (Support)	\$91,830.36	\$179,828.00	\$186,534.66	\$104,927.66	\$148,337.66	\$113,300.68	\$141,934.80	\$966,693.83
Drainage Reviews (Support)	\$70,833.34	\$96,041.65	\$71,917.32	\$68,797.46	\$71,928.77	\$39,966.05	\$126,229.48	\$545,714.07
Utility Verification (Support)	\$84,841.90	\$37,399.04	\$41,413.28	\$31,031.78	\$32,921.00	\$30,224.22	\$46,258.79	\$304,090.02
Geotech (Wood) Support	\$8,429.73	\$11,653.01	\$26,359.31	\$27,073.66	\$21,878.49	\$9,121.41	\$11,265.71	\$115,781.32
Public Involvement (GIS Support)	\$10,374.50	\$14,109.32	\$12,127.96	\$7,561.79	\$10,374.50	\$7,109.64	\$11,643.30	\$73,301.02
CRAS Survey (SEARCH)	\$16,261.28	\$28,890.57	\$29,661.80	\$37,071.50	\$12,089.10	\$28,197.17	\$31,551.91	\$183,723.33
Program Management	\$552,966.70	\$817,657.02	\$668,315.37	\$436,946.91	\$621,392.50	\$478,304.63	\$525,363.88	\$4,100,947.02
Project Controls (HDR)	\$92,315.89		\$108,338.91	\$0.00	\$89,893.00	\$0.00	\$96,932.21	\$387,480.01
Post Desing (RFI, RFM, Etc.)	\$123,912.08							
Section 1 Sub-total	\$1,051,765.78	\$1,185,578.61	\$1,144,668.62	\$713,410.77	\$1,008,815.02	\$706,223.81	\$991,180.09	\$6,801,642.69
Amendment 7 adds \$27,834.90								
Amendment 7 adds \$110,052.90								
Amendment 7 adds \$123,912.08								
Amendment 7 adds \$261,799.88								
Section 2								
	1						6B	
2) Design Criteria Package (DB)	CR 218 -DBB						FCC-6B (DB)	Check
Survey (RW & Topo Survey)	\$164,628.42						\$265,218.73	\$429,847.15
Structures (Strain Poles)	\$10,138.16						\$137,085.02	\$147,223.18
Roadway Analysis and Plans	\$427,759.13						\$140,780.76	\$568,539.89
Drainage Analysis and Plans	\$214,943.26						\$97,014.28	\$311,957.54
Geotech (WSP)	\$10,000.00						\$206,412.79	\$216,412.79
Environmental and Permitting	\$115,399.74						\$193,910.90	\$309,310.64
Wetland (Delineation)	\$83,066.76						\$160,185.90	\$243,252.66
CCUA Plans	\$36,791.32						\$0.00	\$36,791.32
S&PM, Signal, Lighting Analysis and Plans	\$80,390.41						\$0.00	\$80,390.41
Section 2 Subtotal	\$1,143,117.20						\$1,200,608.39	\$2,343,725.59
Amendment 7 adds \$12,963.08 Boundary Survey								
Amendment 7 adds \$10,138.16 Strain Poles								
Amendment 7 adds \$340,272.45 Finalize Plans								
Amendment 7 adds \$191,366.61 Finalize Drainage								
Amendment 7 adds \$10,000 Finalize UES								
Amendment 7 adds \$24,259.73 Finalize Permit								
Amendment 7 adds \$36,791.32								
Amendment 7 adds \$80,390.41								
Amendment 7 adds \$706,181.76								
Section 3								
	1	2	3	4	5	6A	6B	
3) Program Wide Right of Way Acquisition	CR 218 -DB	CR 209 (Group 2)	CR 209 (Group 1)	Sandridge (Group 1)	CR 220 (Group 2)	CR 315-FCC-6A (Group 2)	FCC-6B (DB)	Check
Acquisition (WGI)	\$0.00	\$40,500.00	\$55,750.00	\$31,500.00	\$66,250.00	\$121,750.00	\$0.00	\$315,750.00
Acquisition (HDR)	\$232,590.00	\$264,599.28	\$334,366.19	\$217,015.05	\$270,591.00	\$614,738.11	\$0.00	\$1,933,899.63
Appraisal (CBRE)	\$0.00	\$205,920.00	\$204,187.75	\$36,560.00	\$238,518.36	\$262,039.30	\$0.00	\$947,225.41
Env-PH 1 (WGI)	\$32,000.00	\$37,209.60	\$29,023.46	\$24,048.00	\$24,640.00	\$16,885.79	\$0.00	\$163,806.85
Env-PH 2 (AES)	\$5,440.00	\$4,460.80	\$6,549.12	\$4,959.90	\$8,640.00	\$5,920.99	\$0.00	\$35,970.82
Legal Description	\$67,500.00	\$36,320.00	\$63,337.00	\$55,308.50	\$51,000.00	\$80,279.50	\$0.00	\$353,745.00
Env-PH 3 (ERS)	\$715.00	\$972.40	\$842.20	\$537.32	\$715.00	\$489.99	\$802.44	\$5,074.36
Title Search (Barrie)	\$0.00	\$2,100.00	\$2,250.00	\$600.00	\$4,200.00	\$2,700.00	\$0.00	\$11,850.00
Birchfield & Humphrey	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Section 3 Subtotal	\$338,245.00	\$592,082.08	\$696,305.72	\$370,528.77	\$664,554.36	\$1,104,803.68	\$802.44	\$3,767,322.06
Amendment 7 Reduced -\$330,000.00								
Amendment 7 Reduced -\$37,981.64								
Amendment 7 Reduced -\$367,981.64								
Section 4								
		2	3	4	5	6A		
4) CMAR Wide Stormwater and Environmental Strategy		CR 209 (Group 2)	CR 209 (Group 1)	Sandridge (Group 1)	CR 220 (Group 2)	CR 315-FCC-6A (Group 2)		Check
Stormwater Strategy		\$42,751.55	\$56,308.53	\$57,066.13	\$33,620.31	\$55,523.96		\$245,270.48
Wetland (Delineation)		\$79,386.85	\$103,518.90	\$87,479.47	\$70,654.90	\$50,446.56		\$391,486.69
Section 4 Subtotal		\$122,138.40	\$159,827.44	\$144,545.60	\$104,275.21	\$105,970.52		\$636,757.17
Section 5								
		2	3	4	5	6A		
5) CMAR Wide Surveying		CR 209 (Group 2)	CR 209 (Group 1)	Sandridge (Group 1)	CR 220 (Group 2)	CR 315-FCC-6A (Group 2)		Check
RW Survey		\$41,969.33	\$88,272.61	\$47,815.63	\$43,730.44	\$34,821.19		\$256,609.20
Topographic Survey		\$39,291.84	\$122,514.82	\$97,386.33	\$49,542.32	\$68,333.20		\$377,068.51
Section 5 Subtotal		\$81,261.17	\$210,787.43	\$145,201.96	\$93,272.76	\$103,154.39		\$633,677.71
Section 6								
	1	2	3	4	5	6A	6B	
6) Program Wide Construction Engineering Inspection (E&R, VIA, CSI, Alrod, WGI)	CR 218 -DB	CR 209 (Group 2)	CR 209 (Group 1)	Sandridge (Group 1)	CR 220 (Group 2)	CR 315-FCC-6A (Group 2)	FCC-6B (DB)	Check
Inspection	\$503,757.18	479,084.62	\$479,257.80	\$792,216.84	\$487,198.11	404,042.64	\$1,183,853.05	\$4,329,410.23
Amendment 7 Reduce -\$600,000								

Material	\$25,000.00	\$34,000.00	\$29,447.50	\$18,787.50	\$25,000.00	\$17,132.50	\$28,057.50	\$177,425.00
<b>Section 6 Subtotal</b>	<b>\$528,757.18</b>	\$513,084.62	\$508,705.30	\$811,004.34	\$512,198.11	\$421,175.14	\$1,211,910.55	<b>\$4,506,835.23</b>

	1	2	3	4	5	6A	6B	
7) Program Wide Reimbursables	CR 218 -DB	CR 209 (Group 2)	CR 209 (Group 1)	Sandridge (Group 1)	CR 220 (Group 2)	CR 315-FCC-6A (Group 2)	FCC-6B (DB)	Check
Reimburses	\$21,500.00	\$30,625.61	\$25,269.19	\$16,129.05	\$21,500.00	\$14,830.27	\$24,008.36	\$153,862.48
	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
<b>Section 6 Subtotal</b>	<b>\$21,500.00</b>	\$30,625.61	\$25,269.19	\$16,129.05	\$21,500.00	\$14,830.27	\$24,008.36	<b>\$153,862.48</b>

8) Project Totals	\$3,083,385.16	\$2,524,770.49	\$2,745,563.69	\$2,200,820.49	\$2,404,615.46	\$2,456,157.81	\$3,428,509.82	\$18,843,822.92	Amendment 7 Zero (0) Change Order
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**COMPOSITE  
ATTACHMENT E  
DRAFT SCHEDULE  
FOR PROJECT #1  
DESIGN-BID-BUILD**



**ATTACHMENT H**  
**ESTIMATED**  
**WORK EFFORT**

**ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT**

Name of Project: **CR 218 Pine Tree Lane to Mimosa Avenue**  
 County: Clay  
 FPN: 0  
 FAP No.: 1/0/1900

Consultant Name: WGI  
 Consultant No.:  
 Date: 5/30/2023  
 Estimator: CMC

Staff Classification	Total Staff Hours From "SH Summary - Firm"	Senior Engineer	Engineer	Engineer Intern	Senior Environmental Scientist	Environmental Scientist	Senior Utility Coordinator	Program Manager	Project Manager	Senior Professional Surveyor	Professional Surveyor	Senior Survey Tech	Survey Tech	SH By Activity	Salary Cost By Activity	Average Rate Per Task
		\$251.84	\$200.18	\$116.91	\$212.99	\$101.78	\$190.65	\$259.43	\$234.65	\$176.75	\$155.02	\$117.03	\$101.41			
<b>3. Project Management</b>	450	0	0	0	0	0	0	180	270	0	0	0	0	450	\$110,052.90	\$244.56
4. Roadway Analysis	855	342	342	171	0	0	0	0	0	0	0	0	0	855	\$174,582.45	\$204.19
5. Roadway Plans	658	263	263	132	0	0	0	0	0	0	0	0	0	658	\$134,313.38	\$204.12
6a. Drainage Analysis	690	276	345	69	0	0	0	0	0	0	0	0	0	690	\$146,636.73	\$212.52
6b. Drainage Plans	259	26	130	104	0	0	0	0	0	0	0	0	0	260	\$44,729.88	\$172.04
7. Utilities	366	37	73	110	0	0	146	0	0	0	0	0	0	366	\$64,626.22	\$176.57
8. Environmental Permits, and Env. Clearances	187	0	0	0	47	140	0	0	0	0	0	0	0	187	\$24,259.73	\$129.73
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
18. Structures - Miscellaneous	46	18	28	0	0	0	0	0	0	0	0	0	0	46	\$10,138.16	\$220.39
19. Signing & Pavement Marking Analysis	159	64	64	32	0	0	0	0	0	0	0	0	0	160	\$32,670.40	\$204.19
20. Signing & Pavement Marking Plans	46	18	18	9	0	0	0	0	0	0	0	0	0	45	\$9,188.55	\$204.19
21. Signalization Analysis	66	26	40	0	0	0	0	0	0	0	0	0	0	66	\$14,555.04	\$220.53
22. Signalization Plans	38	8	30	0	0	0	0	0	0	0	0	0	0	38	\$8,020.12	\$211.06
23. Lighting Analysis	55	22	33	0	0	0	0	0	0	0	0	0	0	55	\$12,146.42	\$220.84
24. Lighting Plans	18	4	14	0	0	0	0	0	0	0	0	0	0	18	\$3,809.88	\$211.66
25. Landscape Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
26. Landscape Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
27. Survey (Office Support)	40	0	0	0	0	0	0	0	0	4	8	12	16	40	\$4,974.08	\$124.35
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0.00	#DIV/0!
36. 3D Modeling	149	30	119	0	0	0	0	0	0	0	0	0	0	149	\$31,376.62	\$210.58
<b>Total Staff Hours</b>	4,082	1,134	1,499	627	47	140	146	180	270	4	8	12	16	4,083		
<b>Total Staff Cost</b>		\$285,586.56	\$300,069.82	\$73,302.57	\$10,010.53	\$14,249.20	\$27,834.90	\$46,697.40	\$63,355.50	\$707.00	\$1,240.16	\$1,404.36	\$1,622.56		<b>\$826,080.56</b>	<b>\$202.32</b>

Check = \$826,080.56

Survey Field Days by Subconsultant  
 2 - 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:				\$826,080.56
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)	5	2-person crew days @	\$ 1,597.80 / day	\$7,989.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$834,069.56</b>
Subconsultant: Post Design				\$123,912.08
Subconsultant: GeoTech				\$10,000.00
Subconsultant: Sub 3				\$0.00
Subconsultant: Sub 4				\$0.00
Subconsultant: Sub 5				\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$967,981.64</b>
Geotechnical Field and Lab Testing				\$0.00
<b>SUBTOTAL ESTIMATED FEE:</b>				<b>\$967,981.64</b>
Optional Services				\$0.00
<b>GRAND TOTAL ESTIMATED FEE:</b>				<b>\$967,981.64</b>

**Project Activity 3: General Tasks**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
Clay County	E. Dendor	
WGI	C. Campos	

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	General Administrative Services					
3.1.1	Setup and oversee Document Controls Process	LS	1	16	16	4hrs setup and 1 hr per month for 6 months
3.1.2	Project Status Report	LS	1	6	6	1 hr per month for 6 months
3.1.3	Right of Way Oversight	LS	1	8	8	Verify driveways per DRC and Coordinate Circle K Driveways
3.1.4	Right of Way Spreadsheets	LS	1	0	0	
3.1.5	Right of Way Letters (TCE, LA, Acquisition)	LS	1	0	0	
3.1.6	Develop and maintain project metrics (Cash flow, Schedule, Safety, Submittal Logs)	LS	1	20	20	8hrs setup and 2 hr per month for 6 months, MS Project Schedule
3.1.7	Report Metrics to County	LS	1	6	6	1 hr per month for 6 months
3.1.8	Review and process invoices	LS	1	10	10	4hrs setup and 1 hr per month for 6 months
3.1.9	Public Meeting Preparations	LS	1	0	0	
3.1.10	Public Meeting Attendance/Follow-up	LS	1	0	0	
3.1.11	Other Agency Meetings	LS	1	0	0	
3.1.12	Web Site	LS	1	6	6	Dashboard Updates
<b>3.1 Public Involvement Subtotal</b>					<b>72</b>	
3.2	Joint Project Agreements	EA	1	12	12	Coordinate CCUA Interlocal agreement and Design
3.3	Specifications & Estimates					
3.3.1	Review Request for Proposal from Contractor	LS	1	24	24	Setup RFP for Conventional Bid
3.3.2	Review Estimated Quantities Report	LS	1	24	24	Engineer's Cost Estimate for Base Bid, plus optional bids
3.4	Contract Maintenance and Project Documentation	LS	1	52	52	assume 6 months. 20 hr initial set up. 4 hr per month for 6 months, 8 hr for final documentation
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	
3.6	Prime Consultant Project Manager Meetings	LS	1	182	182	See listing below
3.7	Plans Update	LS	1	18	18	Coordiante Plans Update with Each Displine

**Project Activity 3: General Tasks**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	18	18	Coordinate Post Design with each Displine (Roadway, Drainage, etc.)
3.9	Digital Delivery	LS	1	8	8	Includes submitting applicable documents and contract plans (as defined in the scope of services) in digital format.
3.10	Risk Assessment Workshop	LS	1	0	0	
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	
3.11.1	Aeronautical Evaluation	LS	1	0	0	
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	
3.13	Other Project General Tasks	LS	1	40	40	Plans Review (1 submittal x 40 hr)
<b>3. Project Common and Project General Tasks Total</b>					<b>450</b>	

<b>3.6 - List of Project Manager Meetings</b>	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis	EA	2	2	4	
Drainage	EA	2	2	4	
Utilities	EA	2	2	4	
Environmental	EA	2	2	4	
Review Claims for Extra Work and Time	EA	2	10	20	Assume 2 claims @ 10 hrs. ea.
Review Fee Proposals and Supplemental Services	EA	2	8	16	1 initial contract (8 hrs) plus 1 Supplement (8 hrs)
Draft Amendments for Supplemental Services	EA	2	8	16	1 initial contract (8 hrs) plus 1 Supplement (8 hrs)
Review/evaluate construction Documents	EA	2	6	12	
Assist in preparing contracts with DB and County	EA	1	8	8	
Survey	EA	1	2	2	
Request for Information Responses	EA	6	2	12	
ROW & Mapping	EA	4	2	8	
Construction Coordination/ Oversight	EA	6	2	12	
Evaluate Bid Price	EA	2	4	8	
Scope Coordination Meetings with County	EA	4	2	8	
Production Meetings with the Internal Team	EA	16	1	16	Weekly Meeitng for 16 weeks
Geotechnical	EA	2	2	4	Wood
Progress Meetings with the County	EA	6	2	12	2 per month for 6 months
Phase Reviews	EA	2	2	4	90% and Final Review Coordination
Field Reviews	EA	4	2	8	
<b>Total Project Manager Meetings</b>		70		182	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.

**Project Activity 4: Roadway Analysis**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
	Jarret Hansen	5/24/2023

**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	
4.2	Pavement Type Selection Report	LS	1	0	0	
4.3	Pavement Design Package	LS	1	0	0	
4.4	Cross-Slope Correction	LS	1	0	0	
4.5	Horizontal /Vertical Master Design Files	LS	1	500	500	2.6 mile for Ultimate design and Final Permit Plans, Plus rescoping of project Base Bid is 1 mile, with optional services
4.6	Access Management	LS	1	12	12	Will include Omega Park median Opening
4.7	Roundabout Evaluation	LS	1	0	0	
4.8	Roundabout Final Design Analysis	LS	1	0	0	
4.9	Cross Section Design Files	LS	1	0	0	estimated in section 36.5 per design guidelines
4.10	Temporary Traffic Control Plan Analysis	LS	1	40	40	Level 1 = 40, 1 mile, Intent is to use MBI for Ultimate and design 1 mile for Base Bid
4.11	Master TTCP Design Files	LS	1	40	40	1 mile
4.12a	Selective Clearing and Grubbing of Existing VegetationField Assessment	LS	1	0	0	
4.12b	Selective Clearing and Grubbing Site Inventory of Existing Vegetation and Cross-Discipline Coordination (OPTIONAL SERVICES)	LS	1	0	0	
4.12c	Selective Clearing and Grubbing- Existing Vegetation Maintenance Report	LS	1	0	0	
4.13	Tree Dispostion Plan	LS	1	0	0	
4.14	Design Variations and Exceptions	LS	1	0	0	
4.15	Design Report	LS	1	24	24	Design Notebook
4.16	Quantities for EQ Report	LS	1	68	68	60 hours for 1 mile, plus 8 hours for intersection
4.17	Cost Estimate	LS	1	24	24	24 x 1 submittal

**Project Activity 4: Roadway Analysis**

<b>Task No.</b>	<b>Task</b>	<b>Units</b>	<b>No of Units</b>	<b>Hours/ Unit</b>	<b>Total Hours</b>	<b>Comments</b>
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	no tech specs expected
4.19	Other Roadway Analyses	LS	1	0	0	
<b>Roadway Analysis Technical Subtotal</b>					<b>708</b>	



**Project Activity 4: Roadway Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	8	8	2 people, 4 hr
4.21	Monitor Existing Structures	LS	1	0	0	
4.22	Technical Meetings	LS	1	44	44	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	5%	35	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	35	
<b>Roadway Analysis Nontechnical Subtotal</b>					<b>122</b>	
4.26	Coordination	LS	%	3%	25	
<b>4. Roadway Analysis Total</b>					<b>855</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Typical Section	EA	1	2	2	initial discussion	yes	1
Pavement	EA	1	2	2	initial discussion	yes	1
Access Management	EA	1	2	2	initial discussion	yes	1
15% Line and Grade	EA	0	0	0	initial discussion	yes	1
Driveways	EA	0	0	0		no	0
Local Governments (cities, counties, MPO)	EA	4	2	8		no	0
Work Zone Traffic Control	EA	2	2	4		no	0
30/60/90/100% Comment Review Meetings	EA	1	4	4	Page turn for Final Plans	yes	1
Other Meetings	EA	4	1	4	misc. initial discussion	yes	1
<b>Subtotal Technical Meetings</b>				<b>26</b>			<b>6</b>
					<b>Subtotal Project Manager Meetings</b>		
Progress Meetings (if required by County)	EA	8	2	16	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	1	2	2	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
<b>Total Meetings</b>				<b>44</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>6</b>

Carries to 4.22

Carries to Tab 3

**Project Activity 5: Roadway Plans**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
FDOT District	Jarret Hansen	5/24/2023
Consultant Name		

**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	one key sheet
5.2	Typical Section Sheets						
5.2.1	Typical Sections		EA	4	8	32	typical section
5.2.2	Typical Section Details		EA	0	0	0	
5.3	General Notes/Pay Item Notes		Sheet	1	16	16	Includes notes to reviewers.
5.4	Project Layout		Sheet	1	8	8	8 hrs x 1 sheet
5.5	Plan/Profile Sheet		Sheet	10	4	40	Base Bid one Mile
5.6	Profile Sheet		Sheet	20	2	40	10 profile sheets, For Ultimate
5.7	Plan Sheet		Sheet	20	4	80	20 plan sheets, For Ultimate
5.8	Special Profile		Sheet	19	5	95	driveway profile sheets, Circle K TCE elimination
5.9	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	
5.10	Interchange Layout Sheet		Sheet	0	0	0	
5.11	Ramp Terminal Details (Plan View)		Sheet	0	0	0	
5.12	Intersection Layout Details		Sheet	4	12	48	4 sheets for curb return details
5.13	Special Details		EA	0	0	0	
5.14	Cross-Section Pattern Sheets		Sheet	0	0	0	
5.15	Roadway Soil Survey Sheets		Sheet	1	1	1	to incorporate into roadway plans
5.16	Cross Sections		EA	0	0	0	estimated in section 36.5 per design guidelines
5.17	Temporary Traffic Control Plan Sheets		Sheet	40	2	80	4 phases @ 10 sheets/phase

**Project Activity 5: Roadway Plans**

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.18	Temporary Traffic Control Cross Section Sheets		EA	4	0.4	2	4 cross sections for 4 phases
5.19	Temporary Traffic Control Detail Sheets		Sheet	1	8	8	TTCP detail sheet including general notes, 2 temporary signalization sheets
5.20	Utility Adjustment Sheets		Sheet	20	4	80	19 sheets
5.21	Selective Clearing and Grubbing Sheets						
5.21.1	Selective Clearing and Grubbing		Sheet	0	0	0	
5.21.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	
5.22	Tree Disposition Sheets						
5.22.1	Tree Disposition Plan Sheets		Sheet	0	0	0	
5.22.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	
5.23	Project Control Sheets		Sheet	1	24	24	1 sheet @ 24 hrs/sheet
5.24	Environmental Detail Sheets		Sheet	0	0	0	
5.25	Utility Verification Sheets (SUE Data)		Sheet	3	12	36	3 sheets @ 12 hrs/sheet, need to verify data
<b>Roadway Plans Technical Subtotal</b>						<b>598</b>	
5.26	Quality Assurance/Quality Control		LS	%	5%	30	
5.27	Supervision		LS	%	5%	30	
<b>5. Roadway Plans Total</b>						<b>658</b>	

**Project Activity 6a: Drainage Analysis**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
Clay County	Ed Dendor	
WGI	Kevin Cann	

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.1	Drainage Map Hydrology	Per Map	1	6	6	Update Existing Maps
6a.2	Base Clearance Calculations	Per Location	1	12	12	Review Base Clearances
6a.3	Pond Siting Analysis and Report	Per Basin	4	0	0	
6a.4	Design of Cross Drains	EA	2	26	52	Review existing 26 cross drains desings
6a.5	Design of Ditches	Per Ditch Mile	0.5	20	10	offsite ditches to carry offsite flows through system
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	4	40	160	40 hr per pond (4 ponds) All Ponds will be Permitted
6a.7	Design of Stormwater Management Facility (Roadside Treatment Swales and Linear Ponds)	Per Cell	0	0	0	
6a.8	Design of Floodplain Compensation	Per Floodplain Basin	1	30	30	Included in pond area
6a.9	Design of Storm Drains	EA	90	2	180	90 structures x 2 hrs each
6a.10	Optional Culvert Material	EA	90	0	0	
6a.11	French Drain Systems	Per Cell	0	0	0	
6a.11.1	Existing French Drain Systems	Per Cell	0	0	0	
6a.12	Drainage Wells	EA	0	0	0	
6a.13	Drainage Design Documentation Report	LS	1	60	60	Review and finalize Drainage Report
6a.14	Bridge Hydraulic Report	EA	1	0	0	

**Project Activity 6a: Drainage Analysis**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6a.15	Temporary Drainage Analysis	LS	1	12	12	
6a.16	Quantities for EQ Report	LS	1	24	24	
6a.17	Cost Estimate	LS	1	12	12	
6a.18	Technical Special Provisions / Modified Special Provisions	LS	1	0	0	
6a.19	Hydroplaning Analysis	LS	1	0	0	
6a.20	Existing Permit Analysis	LS	1	8	8	
6a.21	Other Drainage Analysis	LS	1	0	0	
6a.22	Noise Barrier Evaluation	LS	1	0	0	
<b>Drainage Analysis Technical Subtotal</b>					<b>566</b>	
6a.23	Field Reviews	LS	2	4	8	2 people 4 hours field review new alignment
6a.24	Technical Meetings	LS	1	40	40	Meetings are listed below
6a.25	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.26	Quality Assurance/Quality Control	LS	%	5%	28	
6a.27	Independent Peer Review	LS	%	0%	0	
6a.28	Supervision	LS	%	5%	28	
<b>Drainage Analysis Nontechnical Subtotal</b>					<b>104</b>	
6a.29	Coordination	LS	%	3%	20	
<b>6a. Drainage Analysis Total</b>					<b>690</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	2	2	4			0
Pond Siting	EA	1	0	0			0
Agency	EA	2	4	8	SRWMD & ACOE		0
Local Governments (cities, counties)	EA	2	2	4	Coordination		
County Drainage	EA	2	2	4			0
Other Meetings	EA	2	2	4			0
<b>Subtotal Technical Meetings</b>				<b>24</b>			<b>0</b>
Progress Meetings (if required by County)	EA	16	1	16	<i>PM attendance at Progress Meetings is manually entered on General Task 3</i>		--
Phase Review Meetings	EA	1	0	0	<i>PM attendance at Phase Review Meetings is manually entered on General Task 3</i>		--
<b>Total Meetings</b>				<b>40</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

Carries to 6a.24

Carries to Tab 3

**6b. Drainage Plans**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

**NOTE: Signature Block is optional, per District preference**

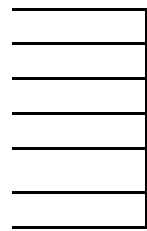
Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
6b.1	Drainage Map (Including Interchanges)		Sheet	6	12	72	Review and Update existing Drainage Maps
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	
6b.3	Drainage Structures		LS	30	2	60	90 Draiange Structures, 30 for Base Proejct
6b.4	Lateral Ditch Plan/Profile		Sheet	0	0	0	
6b.5	Lateral Ditch Cross Sections		EA	0	0	0	
6b.6	Retention/Detention Ponds Detail Sheets		Sheet	4	20	80	4 ponds Review and update sheets, <b>All Ponds will be Permitted</b>
6b.7	Retention Pond Cross Sections		EA	16	0.25	4	4 ponds, 4 xs per pond at 0.25hr/xs, <b>All Ponds will be Permitted</b>
6b.8	Erosion Control Plan Sheets		Sheet	9	2	18	9 sheets plus 4 ponds
6b.9	SWPPP Sheets		Sheet	1	1	1	Investigate the need for a SWPP
<b>Drainage Plans Technical Subtotal</b>						<b>235</b>	
6b.10	Quality Assurance/Quality Control		LS	%	5%	12	
6b.11	Supervision		LS	%	5%	12	
<b>6. Drainage Plans Total</b>						<b>259</b>	

1	16	16	2 people 8 hours field review new alignment
1	0	0	Meetings are listed below
1	0	0	
%	8%	0	
%	0%	0	
%	8%	0	

**6b. Drainage Plans**

0	0	0	
0	0	0	
0	0	0	
1	8	8	Coordination
0	0	0	
2	8	16	Jurisdictional Agencies

**6b. Drainage Plans**





**6b. Drainage Plans**

0
0
0
0
0
0

**Project Activity 7: Utilities**

Estimator:

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Representing	Print Name	Signature / Date
Clay County	Ed Dendor	
WGI	Chris Stermer and Dan Hunt	

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Utility Kickoff Meeting	LS	2	1	2	Meeting is listed below
7.2	Identify Existing Utility Agency Owner(s)	LS	8	1	8	8 UAOS
7.3	Make Utility Contacts	LS	8	1	8	8 UAOS, anticipate 1 contacts
7.4	Exception Processing	LS	1	0	0	
7.5	Preliminary Utility Meeting	LS	1	4	4	Meeting is listed below
7.6	Individual/Field Meetings	LS	6	4	24	Meetings are listed below
7.7	Collect and Review Plans and Data from UAO(s)	LS	8	4	32	8 UAOS x 4 hours each x 2 reviews
7.8	Subordination of Easements Coordination	LS	1	0	0	
7.9	Utility Design Meeting	LS	1	16	16	Meeting is listed below
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	1	0	0	
7.11	Utility Coordination/Followup	LS	1	32	32	8 UAOS x 4 hours each
7.12	Utility Constructability Review	LS	1	0	0	
7.13	Additional Utility Services	LS	1	0	0	Permit reviews/ processing
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	200	200	CCUA Water & Sewer Relocation Plans, Hours include Design and Permitting
7.15	Contract Plans to UAO(s)	LS	1	0	0	
7.16	Certification/Close-Out	LS	1	8	8	8 UAOS
7.17	Other Utilities	LS	1	0	0	
<b>7. Utilities Total</b>					<b>366</b>	

**Project Activity 7: Utilities**

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff (see 7.1)	EA	2	2	4	Civil		0
Preliminary Meeting (see 7.5)	EA	1	4	4	meetings include agenda and meeting prep, travel, meeting, and mtg minutes.		0
Individual UAO Meetings (see 7.6)	EA	4	4	16	meetings include agenda and meeting prep, travel, meeting, and mtg minutes.		0
Field Meetings (see 7.6)	EA	2	4	8	Civil		0
Design Meeting (see 7.9)	EA	2	8	16	Utility Coordination 90% meeting Reveiw Existing CCLIA Plans		0
Other Meetings (this is automatically added into Utilities Total (cell F27))	EA	2	16	32	Design progress meetings (Chris and Dan)		0
<b>Total Meetings</b>				<b>80</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

Carries to Tab 3

**Project Activity 8: Environmental Permits**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
Clay County	Ed Dendor	
WGI	Greg Griffith	

*NOTE: Signature Block is optional, per District preference*

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
<b>Environmental Permits and Environmental Clearances</b>						
8.1	Preliminary Project Research	LS	1	8	8	research of proposed project, adjacent projects and existing permits.
<b>Permits</b>						
8.2	<b>Field Work</b>					
8.2.1	Pond Site Alternatives	per pond site	0	0	0	
8.2.2	Establish Wetland Jurisdictional Lines and Assessments	LS	1	0	0	
8.2.3	Species Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	8	8	Meet with SJRWMD and the USACE to verify wetland lines.
8.4	<b>Complete And Submit All Required Permit Applications</b>					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	120	120	Continue active SJRWMD ERP and USACE 404 permit applications
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Coordinate and Review Dredge and Fill Sketches	LS	1	8	8	Review and coordinate D&F sketches
8.6	Prepare USCG Permit Application	LS	1	0	0	
8.7	Prepare Water Management District or Local Water Control District Right of Way Occupancy Permit Application	LS	0	0	0	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	0	0	0	
8.9	Prepare USACE Section 408 Application to Alter a Civil Works Project	LS	0	0	0	
8.10	Compensatory Mitigation Plan	LS	0	0	0	
8.11	Mitigation Coordination and Meetings	LS	0	0	0	
8.12	Other Environmental Permits	LS	0	0	0	
<b>Environmental Clearances/Reevaluations</b>						
8.13	<b>Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)</b>					
8.13.1	NEPA or SEIR Reevaluation	LS	0	0	0	
8.13.2	Archaeological and Historical Resources	LS	0	0	0	
8.13.3	Wetland Impact Analysis	LS	0	0	0	
8.13.4	Essential Fish Habitat Impact Analysis	LS	0	0	0	
8.13.5	Protected Speices and Habitat Impact Analysis	LS	0	0	0	
8.14	<b>Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)</b>					
8.14.1	NEPA or SEIR Reevaluation	LS	0	0	0	
8.14.2	Archaeological and Historical Resources	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	0	0	0	
8.14.4	Essential Fish Habitat Impact Analysis	LS	0	0	0	
8.14.5	Protected Species and Habitat Impact Analysis	LS	0	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	1	0	0	
<b>Environmental Permits and Environmental Clearances/Reevaluations Technical Subtotal</b>					<b>144</b>	
8.17	Technical Meetings	LS	1	24	24	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	%	5%	7	
8.19	Supervision	LS	%	5%	7	
<b>Environmental Permits and Environmental Clearances Nontechnical Subtotal</b>					<b>38</b>	
8.20	Coordination	LS	%	3%	5	
<b>8. Environmental Permits and Environmental Clearances Total</b>					<b>187</b>	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
WMD	EA	2	4	8			0
NMFS	EA	0	0	0			0
USACE	EA	0	0	0			0
USCG	EA	0	0	0			0
USFWS	EA	0	0	0			0
FFWCC	EA	0	0	0			0
FDOT	EA	0	0	0			0
Other Meetings	EA	8	2	16	status/virtual meetings with prime engineer firm		0
<b>Subtotal Technical Meetings</b>				<b>24</b>		<b>Subtotal Project Manager Meetings</b>	<b>0</b>
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		--
<b>Total Meetings</b>				<b>24</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

Carries to 8.17

Carries to Tab 3

**Project Activity 18: Miscellaneous Structures**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
<b>Concrete Box Culvert</b>							
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	
<b>Strain Poles</b>							
18.5	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.6	Concrete Strain Poles	Initial Config	4	8		32	Strain Pole Analysis at Mimosa Ave
		EA Add'l Config	2	4		8	Potential Signal Adjustments
18.7	Strain Pole Data Table Plan Sheets	Sheet	1	6	1	6	Complete Data Tables
18.8	Strain Pole Special Details Plan Sheets	Sheet	1	0	1	0	
<b>Mast Arms</b>							
18.9	Mast Arms	EA Design	0	0		0	
18.10	Mast Arms Data Table Plan Sheets	Sheet	0	0	0	0	
18.11	Mast Arm Special Details Plan Sheets	Sheet	0	0	0	0	
<b>Overhead/Cantilever Sign Structures</b>							
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	
<b>High Mast Lighting</b>							
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	
<b>Noise Barrier Walls (Ground Mount)</b>							
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	
<b>Special Structures</b>							
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	

**Project Activity 18: Miscellaneous Structures**

18.31	Other Structures	LS	1	0		0	
<b>Ancillary Structures Report</b>							
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	
<b>18. Structures - Miscellaneous Total</b>					<b>2</b>	<b>46</b>	

**Project Activity 19: Signing and Pavement Marking Analysis**

Estimator:

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Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

**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	
19.2	No Passing Zone Study	LS	1	0	0	
19.3	Signing and Pavement Marking Master Design File	LS	1	80	80	40 hours to setup, plus 40 hours per mile (1 mile assumed)
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	
19.5	Sign Panel Design Analysis	EA	1	0	0	
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	
19.7	Quantities for EQ Report	LS	1	24	24	Base 20 hours plus 1 hour for every 1500 ft
19.8	Cost Estimate	LS	1	8	8	
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
19.10	Other Signing and Pavement Marking	LS	1	0	0	
<b>Signing and Pavement Marking Analysis Technical Subtotal</b>					<b>114</b>	
19.11	Field Reviews	LS	1	4	4	
19.12	Technical Meetings	LS	1	24	24	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	6	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	6	
<b>Signing and Pavement Marking Analysis Nontechnical Subtotal</b>					<b>40</b>	
19.16	Coordination	LS	%	3%	5	
<b>19. Signing and Pavement Marking Analysis Total</b>					<b>159</b>	

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	4	1	4			0

**Project Activity 19: Signing and Pavement Marking Analysis**

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments	
	Local Governments (cities, counties)	EA	1	1	1		0
	Other Meetings	EA	2	1	2		0
<b>Subtotal Technical Meetings</b>					<b>8</b>	<b>Subtotal Project Manager Meetings</b>	<b>0</b>
	Progress Meetings (if required by FDOT)	EA	16	1	16	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	--
<b>Total Meetings</b>					<b>24</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to 19.12

Carries to Tab 3



**Project Activity 20: Signing and Pavement Marking Plans**

Estimator:

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#CONNECT!

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
20.1	Key Sheet		Sheet	1	2	1	2	Revise existing key sheet to WGI
20.2	General Notes/Pay Item Notes		Sheet	1	4	1	4	Review existing general note sheet for compliance
20.3	Project Layout		Sheet	1	4	1	4	Coordinate alignment
20.4	Plan Sheet		Sheet	30	1	30	30	Re-Use Existing Plans
20.5	Typical Details		EA	1	2		2	
20.6	Guide Sign Worksheets		EA	0	0		0	
20.7	Traffic Monitoring Site		EA	0	0		0	
20.8	Cross Sections		EA	0	0		0	
20.9	Special Service Point Details		EA	0	0		0	
20.10	Special Details		LS	1	0		0	
20.11	Interim Standards		LS	1	0		0	
<b>Signing and Pavement Marking Plans Technical Subtotal</b>						<b>33</b>	<b>42</b>	
20.12	Quality Assurance/Quality Control		LS	%	5%		2	
20.13	Supervision		LS	%	5%		2	
<b>20. Signing and Pavement Marking Plans Total</b>						<b>33</b>	<b>46</b>	

**Project Activity 21: Signalization Analysis**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

**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	0	0	0	
21.3	Signal Warrant Study	LS	1	0	0	
21.4	System Timings	LS	1	2	2	
21.5	Reference and Master Signalization Design File	PI	1	10	10	
21.6	Reference and Master Interconnect Communication Design File	LS	1	15	15	update fiber splicing plan for signals
21.7	Overhead Street Name Sign Design	EA	0	0	0	
21.8	Pole Elevation Analysis	LS	1	0	0	
21.9	Traffic Signal Operation Report	LS	1	0	0	
21.10	Quantities for EQ Report	LS	1	0	0	
21.11	Cost Estimate	LS	1	3	3	
21.12	Technical Special Provisions and Modified Special Provisions	LS	1	6	6	assume 1?
21.13	Other Signalization Analysis	LS	1	8	8	add radar traffic detection to match county standards
<b>Signalization Analysis Technical Subtotal</b>					<b>44</b>	
21.14	Field Reviews	LS	1	0	0	
21.15	Technical Meetings	LS	1	16	16	Meetings are listed below
21.16	Quality Assurance/Quality Control	LS	%	5%	2	
21.17	Independent Peer Review	LS	%	0%	0	
21.18	Supervision	LS	%	5%	2	
<b>Signalization Analysis Nontechnical Subtotal</b>					<b>20</b>	

**Project Activity 21: Signalization Analysis**

21.19	Coordination	LS	%	3%	2	
<b>21. Signalization Analysis Total</b>					<b>66</b>	

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	1	0	0			0
Railroads	EA	0	0	0			0
Other Meetings	EA	0	0	0			0
<b>Subtotal Technical Meetings</b>				<b>0</b>		<b>Subtotal Project Manager Meetings</b>	<b>0</b>
Progress Meetings (if required by FDOT)	EA	16	1	16	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		--
<b>Total Meetings</b>				<b>16</b>		<b>Total Project Manager Meetings (carries to Tab 3)</b>	<b>0</b>

Carries to 21.15

Carries to Tab 3

**Project Activity 22: Signalization Plans**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Scale	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
22.1	Key Sheet		Sheet	0	0	0	0	
22.2	General Notes/Pay Item Notes		Sheet	0	0	0	0	
22.3	Plan Sheet		Sheet	1	8	1	8	Update radar traffic detection plan
22.4	Interconnect Plans		Sheet	1	8	1	8	Update fiber interconnect per county comments
22.5	Traffic Monitoring Site		EA	0	0		0	
22.6	Guide Sign Worksheet		EA	0	0		0	
22.7	Special Details		Sheet	1	8	1	8	geotech borings
22.8	Special Service Point Details		EA	0	0		0	
22.9	Mast Arm/Monotube Tabulation Sheet		PI	0	0		0	
22.10	Strain Pole Schedule		PI	1	10		10	Add to structures
22.11	TTCP Signal		EA	0	0		0	
22.12	Temporary Detection Sheet		PI	0	0		0	
22.13	Utility Conflict Sheet		Sheet	0	0	0	0	
22.14	Interim Standards		LS	1	0		0	
<b>Signalization Plans Technical Subtotal</b>						<b>3</b>	<b>34</b>	
22.15	Quality Assurance/Quality Control		LS	%	5%		2	
22.16	Supervision		LS	%	5%		2	
<b>22. Signalization Plans Total</b>						<b>3</b>	<b>38</b>	

**Project Activity 23: Lighting Analysis**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

**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	1	0	0	
23.2	Lighting Design Analysis Report (LDAR)	LS	1	12	12	
23.3	Voltage Drop Calculations	EA	0	0	0	
23.4	FDEP Coordination and Report	LS	1	0	0	
23.5	Reference and Master Design Files	LS	1	4	4	
23.6	Temporary Highway Lighting	LS	1	0	0	
23.7	Design Documentation	LS	1	8	8	
23.8	Quantities for EQ Report	LS	1	4	4	
23.9	Cost Estimate	LS	1	2	2	
23.10	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
23.11	Other Lighting Analysis	LS	1	0	0	
<b>Lighting Analysis Technical Subtotal</b>					<b>30</b>	
23.12	Field Reviews	LS	1	3	3	
23.13	Technical Meetings	LS	1	16	16	
23.14	Quality Assurance/Quality Control	LS	%	5%	2	
23.15	Independent Peer Review	LS	%	0%	0	
23.16	Supervision	LS	%	5%	2	
<b>Lighting Analysis Nontechnical Subtotal</b>					<b>23</b>	
23.17	Coordination	LS	%	3%	2	
<b>23. Lighting Analysis Total</b>					<b>55</b>	

**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	0	0	0			0
Maintaining Agency (cities, counties)	EA	0	0	0			0
Airport authority	EA	0	0	0			0
FDEP Lighting (coast areas)	EA	0	0	0			0
Other Meetings	EA	16	1	16			0
<b>Subtotal Technical Meetings</b>				<b>16</b>	<b>Subtotal Project Manager Meetings</b>		<b>0</b>
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		--
<b>Total Meetings</b>				<b>16</b>	<b>Total Project Manager Meetings (carries to Tab 3)</b>		<b>0</b>

Carries to 23.13

Carries to Tab 3

**24. Lighting Plans**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
24.1	Key Sheet		Sheet	1	2	1	2	Update to WGI
24.2	General Notes/Pay Item Notes		Sheet	1	2	1	2	Update signature sheet
24.3	Pole Data, Legend and Criteria		Sheet	1	4	1	4	Review and Update Data Tables
24.4	Service Point Details		Sheet	0	0	0	0	
24.5	Project Layout		Sheet	1	2	1	2	
24.6	Plan Sheet		Sheet	1	4	1	4	
24.7	Special Details		Sheet	1	2	1	2	
24.8	Temporary Highway Lighting Detail Sheets		Sheet	0	0	0	0	
24.9	Temporary Highway Lighting Plan Sheets		Sheet	0	0	0	0	
24.10	Interim Standards		LS	1	0		0	
<b>Lighting Plans Technical Subtotal</b>						<b>6</b>	<b>16</b>	
24.11	Quality Assurance/Quality Control		LS	%	5%		1	
24.12	Supervision		LS	%	5%		1	
<b>24. Lighting Plans Total</b>						<b>6</b>	<b>18</b>	

**27. Survey**

Estimator:

#BLOCKED!

#BLOCKED!

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No of Units	Field Crew Days/Unit	Crew Days	Field Support	Field Support	Office Support	Office Support	Comments
27.1	Horizontal Project Control (HPC)									
	2-Lane Roadway	Mile	0.00	1.00	0.00	2.00	0.00	3.00	0.00	
	Multi-lane Roadway	Mile		1.00	0.00	2.00	0.00	3.00	0.00	
	Interstate	Mile			0.00		0.00		0.00	
27.2	Vertical PC / Bench Line									
	2-Lane Roadway	Mile	0.00	1.00	0.00	2.00	0.00	3.00	0.00	
	Multi-lane Roadway	Mile		1.00	0.00	2.00	0.00	3.00	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	7.00	0.00	2.00	0.00	3.00	0.00	
	Multi-lane Roadway	EA		7.00	0.00	2.00	0.00	3.00	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. Survey**

27.6	Topography/DTM (3D)								
		Mile	0.00	3.75	0.00	2.00	0.00	4.00	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
27.9	Side Street Surveys								
		Mile			0.00		0.00		0.00
27.10	Underground Utilities								
	Designates	Mile/Site			0.00		0.00		0.00
	Locates	Point			0.00		0.00		0.00
	Survey		0%	0.00	0.00		0.00		0.00
27.11	Outfall Survey								
		Mile			0.00		0.00		0.00
27.12	Drainage Survey			Units/Day					
		EA	0.00	10.00	0.00	3.00	0.00	4.00	0.00
27.13	Bridge Survey								
	Minor / Major	EA	0.00	1.00	0.00	3.00	0.00	4.00	0.00
27.14	Channel Survey								
		EA	0.00	1.00	0.00	3.00	0.00	4.00	0.00
27.15	Pond Site Survey								
		EA	4.00	1.50	6.00	2.00	12.00	3.00	18.00
27.16	Mitigation Survey								
		Mile			0.00		0.00		0.00
27.17	Jurisdiction Line Survey								
		Mile	0.10	5.00	0.50	2.00	1.00	3.00	1.50
27.18	Geotechnical Support			Units/Day					
		EA			0.00		0.00		0.00
27.19	Sectional / Grant Survey								
		Corner			0.00		0.00		0.00

**27. Survey**

		Mile			0.00		0.00		0.00
27.20	Subdivision Location								
		Block			0.00		0.00		0.00
27.21	Maintained R/W								
		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								
		Point			0.00		0.00		0.00
27.26	Line Cutting								
		Mile	0.10	10.00	1.00				
27.27	Work Zone Safety								
			10	0.125	1.25				
27.28	Miscellaneous Surveys								
					0.00		0.00		0.00
<b>Survey Subtotal</b>			<b>Crew Days</b>	<b>9</b>	<b>Field Support Hours</b>	<b>13</b>	<b>Office Support Hours</b>	<b>20</b>	
27.29	Supplemental Surveys								
			10%	9	1		1		2
THE % FOR SUPPLEMENTAL WILL BE DETERMINED AT NEGOTIATIONS. THIS ITEM CAN ONLY BE USED IF AUTHORIZED IN WRITING BY THE DISTRICT SURVEYOR									
27.30	Document Research	Units							0
27.31	Field Reviews	Units							0
27.32	Technical Meetings	LS							0
			0.00						0
27.33	Quality Assurance / Quality Control	LS							

**27. Survey**

					5%	1		
27.34	Supervision	LS						
					5%	2		
27.35	Coordination	LS						
					3%	1		
<b>27. Survey Total</b>			<b>Crew Days</b>	<b>10</b>	<b>Field Support Hours</b>	<b>14</b>	<b>Office Support Hours</b>	<b>25</b>

SPLS =  
 PLS =  
 Office Support =  
 Total Hours = 40

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number	Comments
Kickoff Meeting with FDOT	EA	0	0	0		0	
Baseline Approval Review	EA	0	0	0		0	
Network Control Review	EA	0	0	0		0	
Vertical Control Review	EA	0	0	0		0	
Local Governments (cities, counties)	EA	0	0	0		0	
Final Submittal Review	EA	0	0	0		0	
Other Meetings	EA	0	0	0		0	
<b>Subtotal Technical Meetings</b>				<b>0</b>	<b>Subtotal PM Meetings</b>	<b>0</b>	
Progress Meetings (if required by FDOT)	EA	0	0	0	**	--	
Phase Review Meetings	EA	0	0	0	**	--	
<b>Total Meetings</b>				<b>0</b>	<b>Total PM Mtgs (carries to Tab 3)</b>	<b>0</b>	

Carries to 27.32

Carries to Tab 3

**\*\* Project Manager attendance at progress, phase and field review meetings are manually entered on General Task 3**

**Project Activity 4: Roadway Analysis**

Estimator:

CR 218 Pine Tree Lane to Mimosa Avenue

0

Representing	Print Name	Signature / Date
FDOT District	Jarret Hansen	5/24/2023
Consultant Name		

**NOTE: Signature Block is optional, per District preference**

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
36.1	Phase I 3D Design Model	Alignment / Corridor Mile	0	0	0	
36.2	Phase II 3D Design Model	Alignment / Corridor Mile	0	0	0	
36.3	Phase III 3D Design Model	Alignment / Corridor Mile	1	15	15	update model to reflect PH II comments
36.4	Final 3D Design Model	Alignment / Corridor Mile	1	12	12	update model to reflect PH III comments
36.5	Cross Section Design Files	LS	1	104	104	2.6 miles x 40 hrs/mile
36.6	Template and Assembly Development (Optional)	LS	1	0	0	
<b>3D Modeling Technical Subtotal</b>					<b>131</b>	
36.7	Quality Assurance/Quality Control	LS	%	5%	7	
36.8	Supervision	LS	%	5%	7	
36.9	Coordination	LS	%	3%	4	
<b>3D Modeling Total</b>					<b>149</b>	