City of Jacksonville, Florida

Lenny Curry, Mayor

Department of Public Works
Engineering & Construction Management Division
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Jacksonville, FL 32202
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ONE CITY. ONE JACKSONVILLE.

July 16, 2018

07/16/18 13:03:14
Procurement Division

TO: Gregory W. Pease, Chairman
Professional Services Evaluation Committee

THRU: John P. Pappas, P.E.
Director

FROM: William J. Joyce, P.E.
Director of Operations

SUBJECT: P-11-18 Professional Design Services for Preparation of DCP & RFP for Hart Expressway Modifications
PWCP32ERD549-06505-PW0262-02

The Engineering Division has negotiated with the consultant selected for Professional Services for Professional Design Services for Preparation of DCP & RFP for Hart Expressway Modifications, resulting in the attached Scope of Services, Exhibit A and Contract Fee Schedule, Exhibit B. JSEB firms to be utilized to meet the 15% Participation Percentage Plan for this contract are detailed on a separate attachment.

Accordingly, this is to recommend that the City of Jacksonville enter into a contract with STV, Incorporated for Professional Design Services for Preparation of DCP & RFP for Hart Expressway Modifications, that includes the attached Scope of Services identified as Exhibit "A" and Fee Schedule identified as Exhibit "B", to provide a lump sum amount for Design Services in the amount of $1,100,750.67 and not to exceed limits for: Geotechnical Services in the amount of $125,579.32, Survey in the amount of $243,184.54 and Utility Coordination in the amount of $20,310.04, with a maximum indebtedness to the City in the amount of $1,489,824.57 and with an expiration date of Project Completion. All other terms and conditions are as provided in the RFP and the City's standard contract language.

WJJ/lw

Attachment: Exhibits A & B
JSEB Participation

cc: Lori West, Contract Specialist

SCOPE OF SERVICES
PROFESSIONAL DESIGN SERVICES FOR PREPARATION OF DCP & RFP FOR HART EXPRESSWAY MODIFICATIONS

1.0 PROJECT PURPOSE:

The primary purpose of this contract is for STV Incorporated (CONSULTANT) to prepare for the City of Jacksonville (COJ) a Design-Build (D-B) Design Criteria Package (DCP) and Request for Proposal (RFP) to remove a section of the Hart Expressway from Liberty Street to East of Festival Park Avenue, construct roadway and intersection improvements on Bay Street, and construct new ramps connecting Bay Street to the Hart Expressway at the east and west ends. Additionally, the CONSULTANT will support the Florida Department of Transportation (FDOT) in obtaining NEPA approval.

2.0 OBJECTIVE:

To accomplish the project purpose, the CONSULTANT shall provide professional engineering services to support COJ and FDOT in meeting these objectives:

1. Produce a D-B DCP and RFP that will provide D-B teams sufficient information to prepare Technical Proposals.
2. Obtain environmental permit
3. Verify project constructability
4. Estimate construction cost
5. Obtain NEPA approval

2.1 Schedule:

The CONSULTANT will develop a DCP and RFP production schedule within 10 days of contract execution. Key preliminary milestones impacting production include:

- D-B RFP Advertisement – January 2019
- D-B RFP Release – April 2019
- D-B Letting – Fall of 2019
- NEPA Approval – 9 months from final concept approval

2.2 Submittals:

The CONSULTANT shall furnish DRAFT and FINAL D-B DCP and RFP documentation for COJ and FDOT to adequately control, review, and approve work. The CONSULTANT shall distribute submittals electronically to the COJ Project Manager. The COJ Project Manager will determine the specific number of hard copies to be submitted if required.

2.3 **Provisions for Work:**

All maps, plans, reports, and designs are to be prepared with English values in accordance with COJ, FDOT, or AASHTO criteria as applicable.

3.0 WORK TASKS, SERVICES, AND DELIVERABLES:

The work to accomplish the project purpose will be controlled via the project schedule. The activities necessary to meet the project schedule will be approved by the COJ Project Manager; however it is the responsibility of the CONSULTANT to advise the COJ Project Manager on those activities the CONSULTANT determines are necessary to accomplish the project purpose. These include activities to be performed by the CONSULTANT, COJ, FDOT, and other sub consultants are detailed below.

3.1 **Design Criteria Package and Request for Proposal:**

The CONSULTANT will support COJ in the preparing the Hart Bridge Modification D-B DCP and RFP. The professional services and deliverables associated with this task are summarized below. Appendix A has been attached to provide additional scope details.

PROFESSIONAL SERVICES

GEOTECHNICAL SERVICES

- Field Exploration in support of roadway widening, pond design, retaining wall design, bridge modifications
- Laboratory Testing to determine classification and aggressiveness
- Engineering/Support Services to provide preliminary engineering analysis and evaluation of the site and subsurface conditions with respect to the planned construction.

DESIGN SURVEY SERVICES

Project Control: Establish

- Horizontal Control
- Vertical Control
- Mainline Alignment and R/W Lines
- Side Street Alignments and R/W Lines
- Baseline reference points

Field Data Gathered:

- Provide 3D topographic DTM in the following limits:
  - Gator Blvd from 50' west of Hogans Creek Bridge to 200' north of Talleyrand Ave (4,425')
  - Hart Expressway at grade (under elevated roadway to southerly limits) from E. Adams Street to proposed connection at Bryan Street (4,600').

- Hart Expressway 500' west of proposed connection at A.P. Randolph and 500' east of the proposed connection at Bryan Street (1,000').
- A.P. Randolph Street, from 150' north of the centerline intersection Bay to 400' south of the centerline intersection (550').
- Portion at grade along north side of Hart Expressway from Gator Bowl to Bryan Street (1,600')

- Drainage survey
- Soil Boring Locations

SUBSURFACE UTILITY ENGINEERING SERVICES

- Level B Utility Designation
- Level A Utility Locates (as needed)

UTILITY COORDINATION SERVICES

- Identify all Utility Agency Owners (UAO)
- Compile initial UAO contact package
- Assist with onsite meetings
- Assist with identifying Utility Work by Highway Contractor Agreement needs of UAO's

ENGINEERING SERVICES

The following engineering and architectural services will be required to produce the DCP and RFP:

- Roadway Analysis and Design
- Traffic Control Analysis and Design
- Pavement Design
- Drainage Analysis and Design
- Environmental Permitting and Erosion Control
- Structural Analysis and Design
- Signing & Pavement Marking
- Landscape Architecture

DELIVERABLES

Design Criteria Package and Request for Proposal: The delivered DCP & RFP shall consist of three parts:

1. RFP Narrative – Will be produced in accordance with COJ procurement requirements. The following procurement methodology will used:
    a. Part I – Shortlisting based upon team criteria
    b. Part II – Low Bid

2. Attachments (Requirements of the RFP) – Attachments include:
    a. Project Advertisement
    b. Modified FDOT Division I Design-Build Specifications with applicable Special Provisions
    c. Typical Section Package
    d. Minimum Pavement Design
    e. Horizontal Layout
    f. Required Design Variations/Exceptions
    g. Right-of-Way Maps
    h. Guide Sign Locations & Requirements
    i. JEA Summary of work (if necessary)
    j. Wetland Impact Sketches
    k. Special Lighting Requirements
    l. Landscape Opportunity and Planting Plan
    m. LAP Construction Checklist
3. Reference Documents (Additional Information) – Reference documents include:
    a. Roadway Concept Plans
        i. Key Sheet
        ii. Drainage Map
        iii. Typical Section/Details
        iv. Project Control
        v. Roadway Plans including conceptual drainage network
        vi. Roadway Profiles
        vii. Special Profiles (Ramps)
        viii. Pond Details/Control Structures
        ix. Soil Survey Sheet
        x. Roadway Cross Sections
        xi. Stormwater Pollution Prevention Plan (SWPPP)
        xii. Temporary Traffic Control
        xiii. Erosion Control
    b. Structure Concept Plans
        i. Typical Sections
        ii. Plan/Elevation
        iii. Critical Details
    c. Bridge Load Rating
    d. Permit Information
    e. Geotechnical Data Report
    f. NEPA Documents

g. Advance Utility Coordination information
h. CADD Files and Survey Data
i. Existing Plans

OTHER SERVICES

PUBLIC INVOLVEMENT

The CONSULTANT will support COJ and FDOT in Public Meetings/Hearings efforts as-needed with display boards, attendance, and answers to questions. Two public meetings are anticipated.

MEETINGS

The CONSULTANT will support COJ and FDOT in meetings to coordinate with stakeholders, provide progress updates, and develop the RFP. Specific meetings are detailed in Appendix A.

COST ESTIMATE

A detailed cost estimate will be provided that is based upon identification of specific construction items, quantification of items, and unit prices from FDOT's historical cost database. The FDOT's Approved Products List will be used for estimation purposes.

3.2 **NEPA Evaluation Support**:

The CONSULTANT will support FDOT in the obtaining NEPA approval for an anticipated Type I Class of Action. The associated professional services and deliverables with this task are summarized below. Appendix A has been attached to provide details of the summary below. The CONSULTANT will deliver the following documentation:

- Cultural Resource Assessment Study (CRAS)
- Contamination Screening Evaluation Report (CSER) & Asbestos Survey
- Natural Resources Evaluation (NRE)
- Pond Siting Report (if necessary)
- Preliminary Engineering Report (PER)

3.3 **Design-Build Procurement Support**:

The CONSULTANT will support FDOT during the D-B procurement. Anticipated services are as follows (see Appendix A for more details):

- Attend ATC meetings for technical support
- Review ATC submittals
- Develop addendum language as needed for RFP revisions
- Provide recommended responses to pre-bid questions

- Review technical proposals for DCP compliance and provide objective feedback to the CSPEC
- Develop technical questions for Q&A sessions

4.0 PROJECT REQUIREMENTS:

4.1 Liaison Office

The COJ and the CONSULTANT will designate a Liaison Office and a Project Manager who shall be the representative of their respective organizations for the project. While it is expected the CONSULTANT shall seek and receive advice from various state, regional, and local agencies, the final direction on all matters of this project remain with the COJ Project Manager.

4.2 Progress Reporting

The CONSULTANT shall meet with COJ as required and shall provide monthly progress reports that describe the work performed on each activity. Progress and schedule status reports shall be delivered to COJ as directed by COJ. The Project Manager will make judgment on whether work of sufficient quality and quantity has been accomplished.

4.3 Quality Control

COJ shall be responsible for insuring that all work products conform to COJ standards and criteria. This shall be accomplished through an internal Quality Control (QC) process performed by the CONSULTANT. This QC process shall insure that quality is achieved through checking, reviewing, and surveillance of work activities by objective and qualified individuals who were not directly responsible for performing the initial work.

Prior to submittal of the first invoice, the CONSULTANT shall submit to the COJ's Project Manager for approval the proposed method or process of providing Quality Control for all work products. The Quality Control Plan shall identify the products to be reviewed, the personnel who perform the reviews, and the method of documentation.

4.4 Professional Endorsement

The CONSULTANT shall have a Registered Professional in the State of Florida sign (and seal as required) all reports, documents, and plans.

4.5 Computer Automation

Engineering drawings will be developed utilizing MicroStation Computer Aided Drafting and Design (CADD) software which will be converted to AutoCADD.

4.6 Coordination with other Consultants

The CONSULTANT is to coordinate the work with any and all adjacent and integral consultants to produce homogenous documentation.

4.7 Optional Services

At COJ's option, the CONSULTANT may be requested to provide optional services. The fee for these services shall be negotiated in accordance with the terms of the executed contract, Method of Compensation, for a fair, competitive and reasonable cost, considering the scope and complexity of the service(s) requested. A supplemental agreement adding the additional services shall be executed in accordance with COJ Procurement policy as established in the original contract.

4.8 Services Not Included

D-B Construction Phase services are not included and should be negotiated through a supplemental agreement

5.0 FEES

The grand total fee for the aforementioned services is $1,489,824.57. Fees for each firm on the CONSULTANT'S team are shown below:

Firm	Fee
STV Inc.	$956,706.83
Cardno, Inc	$20,310.04
CSI Geo, Inc.	$125,579.32
DRMP Inc.	$243,184.54
Environmental Resource Solutions Inc.	$11,820.31
Meskel & Associates Engineering	$29,863.01
Peters & Yaffee, Incorporated	$49,064.11
POND & Company Corporation	$12,100.24
SEARCH, Inc.	$41,196.17

A breakdown of the work effort associated with these fees is provided in Appendix A of this scope. Subconsultant fees will be performed as required on the basis indicated on the accompanying fee summary.

6.0 SERVICES TO BE PERFORMED BY OTHERS

COJ will provide the following services and materials as indicated below:

- Meeting/Hearing organization and execution
- Project related data currently on file (surveys, contamination reports, etc.)
- LiDAR
- Current bridge inspection reports
- As-builts for adjacent communities

- Existing Roadway Plans
- Location of gantry crane rails
- Existing R/W maps
- All utility information on file
- Regional stormwater and flood management plans, permits, calculations, and design documentation on file.
- All future information that becomes available such as utility permits, R/W permits, tree permits, and adjacent land development plans.
- R/W Mapping

FDOT will provide the following services and materials as indicated below:

- NEPA evaluation management
- Traffic analysis, reporting, and memo
- Noise Study Memo
- Provide access to Electronic Review Commenting system as needed for submittals

EXHIBIT B

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Hart Bridge Modification D-B DCP/RFP	2. Proposal Number P-11-18
3. Name of Consultant STV Incorporated	4. Date of Proposal 6/22/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$63.87	1283	$ 81,945.21	
Principal	$98.04	70	$ 6,862.80	
Chief Engineer	$76.12	386	$ 29,382.32	
Senior Engineer	$58.20	788	$ 45,861.60	
Design Engineer	$41.33	1275	$ 52,695.75	
Designer	$40.66	939	$ 38,179.74	
CADD/Computer Tech	$26.93	1066	$ 28,707.38	
Engineering Intern	$29.49	1058	$ 31,200.42	
Clerical	$20.45	70	$ 1,431.50	
TOTAL DIRECT LABOR		6,935	Hours	$ 316,266.72
6. Overhead (Combined Fringe Benefit & Administrative)			175%	$ 553,466.76
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$ 869,733.48
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$ 86,973.35

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs		
	$	
	$	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$ -
10. SUBCONTRACTS (Lump Sum)		
ERS (Environmental)	$ 11,820.31	
MAE (Contamination)	$ 29,863.01	
Peters & Yaffee (Signals/Signing/Marking	$ 49,064.11	
Pond (Landscape)	$ 12,100.24	
SEARCH (Archaeology)	$ 41,196.17	
SUB-CONTRACT SUB-TOTAL		$ 144,043.84
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$ 1,100,750.67
11. REIMBURSABLE COSTS (Limiting Amount)		
CSI Geo (Geotechnical)	$ 125,579.32	
DRMP (Survey/SUE)	$ 243,184.54	
Cardno (Utility Coordination)	$ 20,310.04	
SUB-TOTAL REIMBURSABLES		$ 389,073.90

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$ 1,489,824.57**

EBO FORM 1
SCHEDULE OF SUBCONTRACTOR/SUBCONSULTANT PARTICIPATION

Name of Proposer: **STV Incorporated**

Project Title: **Hart Bridge Modification D-B DCP/RFP**

Proposal Number: **P-11-18** Total Base Proposal Amount (if applicable): **$1,489,824.57**

***Please list all JSEBs first**

Full Company Name	JSEB Category (African-American, Women, Asian, Native American, Non-MBE or Hispanic)	Type of Work to be Performed	Total Contract Value or Percentage
CSI Geo, Inc.	African-American	Geotechnical Investigations	**$125,579.32**
Environmental Resource Solutions Inc.	Woman	Environmental Investigations	**$11,820.31**
Meskel & Associates Engineering	Woman	Contamination Screening	**$29,863.01**
Peters & Yaffee	African-American	Signal/Signing/Marking	**$49,064.11**
Cardno	Non-MBE	Utility Coordination	**$20,310.04**
DRMP Inc.	Non-MBE	Topo Survey & SUE	**$243,184.54**
POND Incorporated	Non-MBE	Landscape Architecture	**$12,100.24**
SEARCH Inc.	Non-MBE	Cultural Resource Evaluation	**$41,196.17**

Attach additional list of subcontractors/sub-consultants as needed

CONSULTANT/SUBCONTRACTOR/SUPPLIER TOTAL VALUES	
African-American Participation Total	**$174,643.43 (12%)**
Hispanic-American Participation Total	
Native-American Participation Total	
Asian-American Participation Total	
Woman Participation Total	**$41,683.32 (3%)**
Non-MBE Participation Total	**$1,273,497.82 (85%)**

The undersigned will enter into a formal Agreement with the JSEB Suppliers/Consultants/Subcontractors identified herein for work listed in this schedule conditioned upon execution of a contract with the City of Jacksonville. Under penalties of perjury I declare that I have read the foregoing conditions and instructions and the facts are true to the best of my knowledge and beliefs.

Signature of Proposer: J. Keith Jackson Title: STV Project Manager Date: July 13, 2018

Print Name: J. Keith Jackson, P.E.

FOR INFORMATION ONLY - DO NOT SUBMIT WITH YOUR PROPOSAL

Form 1 - SCHEDULE OF PROPOSED PRICES/RATES

NAME OF CONSULTANT STV Incorporated

Proposal Number P-11-18 (Hart Bridge Modification D-B DCP & RFP)

1. Average hourly direct labor rates (without Fringe Benefits)

Project Manager (Responsible Professional)	$ 63.87 hr.
Design Engineer or Architect (Registered)	$ 41.33 hr.
Designer or Technician (Non-Registered)	$ 40.66 hr.
Drafter or CADD Operator	$ 26.93 hr.
Field Inspector	$ _____ hr.
Clerical (Typist, Word Processor, Document Assembly, etc.)	$ 20.45 hr.

2. Total Overhead Rate (to be applied to Direct Labor:) 175 %

3. Profit Rate (to be applied to Direct Labor plus Overhead) 10 %

4. Cost of 4-man survey crew per 8 hour day (If applicable) $ N/A hr.

4. Other Direct Project Costs per Unit (please specify)

_____

_____

_____

6. Estimated percentage of total fee to be performed by subconsultants _____ %

7. Please provide any other relevant rates that may apply to this project including average direct hourly labor rates for other categories of proposed personnel

Chief Engineer: $76.12 Principal: $98.04

Senior Engineer: $58.20 Engineering Intern: $29.49

_____

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Hart Bridge Mod D-B DCP & RFP
COJ Project ID: P-11-18
STV Log Number 0064878

Consultant Name: STV Incorporated
Date: June 22, 2018
Estimator: JKJ/TTH/BW

Staff Classification	Hours From "SH Summary - Firm"	Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical				SH By Activity	Salary Cost By Activity	Average Rate Per Task
		$63.87	$98.04	$76.12	$58.20	$41.33	$40.66	$26.93	$29.49	$20.45						
3. Project General and Project Common Tasks	1,404	772	70	70	70	140	0	0	211	70	0	0	0	1,403	$79,013	$56.32
4. Roadway Analysis	2,543	254	0	127	254	509	509	509	381	0	0	0	0	2,543	$107,349	$42.21
5. Roadway Plans	880	88	0	44	88	176	176	176	132	0	0	0	0	880	$37,154	$42.22
6a. Drainage Analysis	613	61	0	31	61	123	123	123	92	0	0	0	0	614	$25,916	$42.21
6b. Drainage Plans	447	45	0	22	45	89	89	89	67	0	0	0	0	446	$18,838	$42.24
7. Utilities	64	6	0	3	6	13	13	13	10	0	0	0	0	64	$2,672	$41.74
8. Environmental Permits, Compliance & Clearances	113	11	0	6	11	23	23	23	17	0	0	0	0	114	$4,806	$42.16
9. Structures - Misc. Tasks, Dwgs, Non-Tech.	271	14	0	41	136	54	0	14	14	0	0	0	0	273	$14,952	$54.77
10. Structures - Bridge Development Report	202	10	0	14	40	51	0	40	46	0	0	0	0	201	$8,574	$42.66
11. Structures - Temporary Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
13. Structures - Medium Span Concrete Bridge	124	6	0	9	25	31	0	25	29	0	0	0	0	125	$5,333	$42.66
14. Structures - Structural Steel Bridge	140	7	0	10	28	35	0	28	32	0	0	0	0	140	$5,982	$42.73
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
17. Structures - Retaining Walls	100	5	0	7	20	25	0	20	23	0	0	0	0	100	$4,266	$42.66
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
23. Lighting Analysis	16	2	0	1	2	3	3	3	2	0	0	0	0	16	$706	$44.13
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
30. Terrestrial Mobile LiDAR	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
33. Intelligent Transportation Systems Analysis	16	2	0	1	2	3	3	3	2	0	0	0	0	16	$706	$44.13
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
35. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
36. 3D Modeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	$0	#DIV/0!
Total Staff Hours	6,933	1,283	70	386	788	1,275	939	1,066	1,058	70	0	0	0	6,935		
Total Staff Cost		$81,945.21	$6,862.80	$29,382.32	$45,861.60	$52,695.75	$38,179.74	$28,707.38	$31,200.42	$1,431.50	$0.00	$0.00	$0.00		**$316,266.72**	**$45.60**

Check = $316,266.72

SALARY RELATED COSTS:			$316,266.72
OVERHEAD:		175%	$553,466.76
PROFIT:		10%	$86,973.35
SUBTOTAL ESTIMATED FEE:			**$956,706.83**
Subconsultant:	**Cardno**		$20,310.04
Subconsultant:	**CSI Geo**		$125,579.32
Subconsultant:	**DRMP**		$243,184.54
Subconsultant:	**ERS**		$11,820.31
Subconsultant:	**MAE**		$29,863.01
Subconsultant:	**Peters & Yaffee**		$49,064.11
Subconsultant:	**POND**		$12,100.24
Subconsultant:	**SEARCH**		$41,196.17
GRAND TOTAL ESTIMATED FEE:			**$1,489,824.57**

Project Activity 3: General Tasks

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.1	Public Involvement					
3.1.1	Community Awareness Plan	LS	1	0	0	N/A
3.1.2	Notifications	LS	1	0	0	N/A
3.1.3	Prepare Mailing Lists	LS	1	0	0	N/A
3.1.4	Median Modification Letters	LS	1	0	0	N/A
3.1.5	Driveway Modification Letters	LS	1	0	0	N/A
3.1.6	Newsletters	LS	1	0	0	N/A
3.1.7	Renderings and Fly Throughs	LS	1	0	0	N/A
3.1.8	PowerPoint Presentation	LS	1	0	0	N/A
3.1.9	Public Meeting Preparations	LS	1	72	72	Preparation of 6 boards at 12 hours each - prepare, submit draft, implement comments, QC
3.1.10	Public Meeting Attendance/Followup	LS	1	48	48	2 Meetings, 3 Staff, 4 hours per meeting attendance (24 hours). Follow up 12 hours each meeting (24 hours)
3.1.11	Other Agency Meetings	LS	1	4	4	JTA - prepare, attend, follow up
3.1.12	Web Site	LS	1	0	0	N/A
				3.1 Public Involvement Subtotal	**124**	
3.2	Joint Project Agreements	EA	0	0	0	N/A
3.3	Specifications Package Preparation	LS	1	40	40	Modify FDOT Division I Specs
3.4	Contract Maintenance and EDMS	LS	1	88	88	16 month schedule. 8 hours to set up project. 2 hours per sub contract (8 x 2 = 16 hrs). 4 hours per month maintanance.
3.5	Value Engineering (Multi-Discipline Team) Review	LS	1	0	0	N/A
3.6	Prime Consultant Project Manager Meetings	LS	1	86	86	See listing below
3.7	Plans Update	LS	1	0	0	

Project Activity 3: General Tasks

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
3.8	Post Design Services	LS	1	0	0	
3.9	Digital Delivery	LS	1	0	0	N/A
3.10	Risk Assessment Workshop	LS	1	0	0	N/A
3.11	Railroad, Transit, and/or Airport Coordination	LS	1	0	0	N/A
3.12	Landscape and Existing Vegetation Coordination	LS	1	0	0	N/A
3.13	Other Project General Tasks	LS	1	1,066	1066	Procurement Services
3. Project Common and Project General Tasks Total					**1404**	

3.6 - List of Project Manager Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments
Roadway Analysis	EA	3	2	6	Attendance only - see Roadway Sheet for details
Drainage	EA	3	2	6	Attendance only - see Drainage Sheet for details
Utilities	EA	5	2	10	Attendance only - see Utility Sheet for details
Environmental	EA	0	0	0	N/A
Structures	EA	1	2	2	Attendance only - see Structure Sheet for details
Signing & Pavement Marking	EA	0	0	0	N/A
Signalization	EA	0	0	0	N/A
Lighting	EA	0	0	0	N/A
Landscape Architecture	EA	0	0	0	N/A
Survey	EA	0	0	0	N/A
Photogrammetry	EA	0	0	0	N/A
ROW & Mapping	EA	0	0	0	N/A
Terrestrial Mobile LiDAR	EA	0	0	0	N/A
Architecture	EA	0	0	0	N/A
Noise Barriers	EA	0	0	0	N/A
ITS Analysis	EA	0	0	0	N/A
Geotechnical	EA	0	0	0	N/A
Progress Meetings	EA	6	3	18	As needed with COJ and FDOT
DRAFT & FINAL RFP/DCP Reviews & NEPA Document Reviews	EA	4	10	40	ERC Follow up following DRAFT and FINAL (10 hours per submittal to coordinate comment resolutions with team)
Field Reviews	EA	2	2	4	2 at 2 hours each
Total Project Manager Meetings		**24**		**86**	**Total PM Meeting Hours carries to Task 3.6 above**

STV

ESTIMATE OF PROFESSIONAL SERVICES
RFP Development

STV Proposal or Job Number: TBD **Client Job Number:** P-11-18
Project Description/Location: Hart Bridge Modifications Design-Build DCP & RFP
RFP Production and Procurement Phase Services
Client: City of Jacksonville
Design Assumptions: See EXHIBIT A - SCOPE OF SERVICES
Prepared By/Date: TTH 06/22/18
Reviewed By/Date: JKJ 06/22/18

Direct Labor Estimate:

	Manhours	Project Manager	Principal	Chief Engineer	Senior Engineer	Design Engineer	Designer	CADD Operator	Engineering Intern	Clerical
	-	$63.87	$98.04	$76.12	$58.20	$41.33	$40.66	$26.93	$29.49	$20.45
Progress Meetings (Including Minutes) *[See Note 1]*	270	149	14	14	14	27	0	0	41	14
Draft RFP Preparation (Including Updates)	200	110	10	10	10	20	0	0	30	10
Compile RFP Attachments and Reference Documents	60	33	3	3	3	6	0	0	9	3
Specification Package Preparation	80	44	4	4	4	8	0	0	12	4
Final RFP Package Preparation	32	18	2	2	2	3	0	0	5	2
Mandatory Pre-proposal Preparation and Attendance	24	13	1	1	1	2	0	0	4	1
ATC Meeting Attendance *[See Note 2]*	54	30	3	3	3	5	0	0	8	3
ATC Submittal Reviews *[See Note 3]*	120	66	6	6	6	12	0	0	18	6
Administrative Assistance - ATC Process	24	13	1	1	1	2	0	0	4	1
Respond to Pre-bid Questions	50	28	3	3	3	5	0	0	8	3
RFP Addendums	60	33	3	3	3	6	0	0	9	3
Technical Proposal Reviews *[See Note 4]*	80	44	4	4	4	8	0	0	12	4
Attend TRC Meetings *[See Note 5]*	12	7	1	1	1	1	0	0	2	1
Manhour Totals:	**1,066**	586	53	53	53	107	0	0	160	53

Notes:

1) Assume 18 meetings x 3 People x 5 hrs each (including agenda & minutes prep) = 270 hrs.

2) Assume 2 ATC meetings x 1 day each. 2 meetings x 1 days x 9 hrs./day x 3 Attendees = 54 hrs.

3) Assume 3 shortlisted teams x 5 ATCs x 2 Submittals x 4 hrs per submittal = 120 hrs.

4) Assume review of low bid proposal only.

5) Assume 2 meetings x 3 Attendees X 2 hrs. each = 12 hrs.

Project Activity 4: Roadway Analysis

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

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	74	74	Develop and obtain approval of the typical section package according to the Plans Preparation Manual. Also includes any modification received from reviews. Based 24 hours for the data sheet, location map, and the first Typical Section (Bay/Gator Bowl Blvd Widening) and 10 hours each for five additional Typical Sections (Bay New Alignment, East Ramp, West Ramp, Festival, AP Randolph)
4.2	Pavement Type Selection Report	LS	1	0	0	N/A
4.3	Pavement Design Package	LS	1	84	84	Initial set-up includes collecting all data necessary for entire project limits. 20 hours for initial set up and developing one pavement design, and 16 hours for each additional pavement design required for the project. Anticipate 4 Pavement designs (Bay Street/Gator Bowl Widening, Bay New Alignment, 2 Ramps, M&R/Overbuild, Festival Parkway)
4.4	Cross-Slope Correction	LS	1	0	0	N/A
4.5	Horizontal /Vertical Master Design Files	LS	1	516	516	Establish master design files for the horizontal and vertical geometry, drainage structure features, utilities (including conflict location identification and adjustments), etc. This includes all work to create elements showing the alignment for both horizontal and vertical geometries in plan and profile portion of plan sheets. Includes efforts required to place labels and required information in accordance with the FDOT's CADD manual and FDM in master design file. Also includes all engineering work for designing and analyzing elements required for the plan/profile geometries including horizontal/vertical alignments, back of sidewalk profiles, intersection layouts, curb return profiles, ramp profiles, utilities, etc. Desiging 2 options for RFP advertisement. Upper Range Projects: Urban Widening with major overpass modifications and parial new alignments. 320 hours for the first mile and 300 hours per additional mile = 320 + 0.373 x 300 = 452 hours - Gator Bowl/Bay St Widening: 3,200 feet - New Ramp Alignments: 2,050 feet - Bay Street New Alignment: 1,200 feet - Festival New Alignment: 800 feet Total Length: 7,250 feet = 1.373 miles Additional: 32 hours per intersection requiring special design (2 intersections; 64 hours total)
4.6	Access Management	LS	1	0	0	N/A
4.7	Roundabout Evaluation	LS	1	0	0	N/A
4.8	Roundabout Final Design Analysis	LS	1	0	0	N/A

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.9	Cross Section Design Files	LS	1	459	459	Establish and develop cross section design files to determine the locations for which all cross sections will be shown, creating pattern line file, .tin file, .dat file, input files, criteria files, cross section .dgn files, cross section refinement (non-automated modification), placement of utilities, soil boxes, R/W lines, etc. (Include hours for creating the .dat or .tin files. When these files are provided by the surveyor, the hours should be reduced.) LS based on 50 ft cross section spacing 320 hours per mile for upper range projects. 1.373 mile x 300 hrs/mile = 412 hours. 20 hours for one pond
4.10	Traffic Control Analysis	LS	1	480	480	Includes determining overall phase planning (concept), lane closure analysis, detours, diversions, temporary drainage, temporary signals, (including temporary analysis), retaining walls, bridge shoring towers, and temporary pavement. LS based on all work necessary to develop a TCP concept in accordance to the Plans Preparation Manual as follows: TCP Level II and Level III: Includes analysis for determining overall phase planning (concept), lane closure analysis, detours, diversions, and creating any miscellaneous traffic control sheets (general notes, minor details, typical sections, and quantities) at 140 hrs. Analysis and development of TCP cross sections, including any temporary profiles, criteria development, etc. at 140 hours per mile per phase based on 50 ft. cross section spacing. 4 phase TCP at 120 hours each phase = 480 hours
4.11	Master TCP Design Files	LS	1	240	240	Develop master TCP files showing each phase of the Traffic Control Plan. Includes all details associated with lane configurations, temporary pavement, signing and pavement markings, temporary curb placement, work zone barriers. Based on 40 scale drawings: 80 hours per mile per phase requiring detailed plan sheets. 4 phases. Total hours = 4 x 60 = 240 hours
4.12	Selective Clearing and Grubbing	LS	1	0	0	N/A
4.13	Tree Dispostion Plan	LS	1	0	0	N/A
4.14	Design Variations and Exceptions	LS	1	40	40	1 design variation
4.15	Design Report	LS	1	0	0	N/A
4.16	Quantities	LS	1	180	180	to develop accurate cost estimate
4.17	Cost Estimate	LS	1	40	40	One draft estimate (30 hours to set up) with one update for final (10 hours)
4.18	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	N/A
4.19	Other Roadway Analyses	LS	1	0	0	N/A
				Roadway Analysis Technical Subtotal	**2113**	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.20	Field Reviews	LS	1	6	6	3 at 2 hours each
4.21	Monitor Existing Structures	LS	1	0	0	N/A
4.22	Technical Meetings	LS	1	72	72	Meetings are listed below
4.23	Quality Assurance/Quality Control	LS	%	7%	148	
4.24	Independent Peer Review	LS	%	0%	0	
4.25	Supervision	LS	%	5%	106	
				Roadway Analysis Nontechnical Subtotal	**332**	
4.26	Coordination	LS	%	4%	98	
				4. Roadway Analysis Total	**2543**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Typical Section	EA	1	2	2	yes	1
Pavement	EA	0	0	0	no	0
Access Management	EA	0	0	0	no	0
15% Line and Grade	EA	0	0	0	no	0
Driveways	EA	0	0	0	no	0
Local Governments (cities, counties, MPO)	EA	0	0	0	no	0
Work Zone Traffic Control	EA	1	6	6	yes	1
30/60/90/100% Comment Review Meetings	EA	0	0	0	no	0
Additional Meetings (with Stakeholders)	EA	4	1	4	yes	1
Subtotal Technical Meetings				**12**	**Subtotal Project Manager Meetings**	3
Progress Meetings (if required by FDOT)	EA	18	2	36	*PM attendance at Progress Meetings is manually entered on General Task 3*	- -
Phase Review Meetings	EA	2	12	24	*PM attendance at Phase Review Meetings is manually entered on General Task 3*	- -
Total Meetings				**72**	**Total Project Manager Meetings (carries to Tab 3)**	**3**

Carries to 4.17

Carries to Tab 3

Project Activity 5: Roadway Plans

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing		Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.1	Key Sheet		Sheet	1	8	8	
5.2	Summary of Pay Items Including Quantity Input		Sheet	0	0	0	N/A
5.3	Typical Section Sheets						
5.3.1	Typical Sections		EA	6	8	48	6 typical sections (Bay/Gator Bowl Widening, Bay New Alignment, East Ramp, West Ramp, Festival, AP Randolph)
5.3.2	Typical Section Details		EA	0	0	0	N/A
5.4	General Notes/Pay Item Notes		Sheet	0	0	0	N/A
5.5	Summary of Quantities Sheets		Sheet	0	0	0	N/A
5.6	Project Layout		Sheet	0	0	0	N/A
5.7	Plan/Profile Sheet		Sheet	0	0	0	N/A
5.8	Profile Sheet	40	Sheet	16	4	64	Project Length: 7,250 feet at 620 feet per sheet = 12 sheets. Additional begin/end sheets: 4. 16 total sheets
5.9	Plan Sheet	40	Sheet	16	4	64	Project Length: 7,250 feet at 620 feet per sheet = 12 sheets. Additional begin/end sheets: 4. 16 total sheets
5.10	Special Profile		Sheet	2	16	32	West Ramps, Bay New Alignment
5.11	Back-of-Sidewalk Profile Sheet		Sheet	0	0	0	N/A
5.12	Interchange Layout Sheet		Sheet	0	0	0	N/A
5.13	Ramp Terminal Details (Plan View)		Sheet	0	0	0	N/A
5.14	Intersection Layout Details		Sheet	0	0	0	N/A
5.15	Special Details		EA	0	0	0	N/A
5.16	Cross-Section Pattern Sheet(s)		Sheet	0	0	0	N/A

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units or Sheet	Hours/ Unit or Sheet	Total Hours	Comments
5.17	Roadway Soil Survey Sheet(s)		Sheet	1	1	1	
5.18	Cross Sections		EA	145	0.25	36	0.5 hours per cross section. 7250 ft at 50 ft per cross section = 145 cross sections
5.19	Temporary Traffic Control Plan Sheets		Sheet	64	4	256	4 phases at 16 sheets per phase. 4 hours per sheet.
5.20	Temporary Traffic Control Cross Section Sheets		EA	16	8	128	16 phasing typicals
5.21	Temporary Traffic Control Detail Sheets		Sheet	0	0	0	N/A
5.22	Utility Adjustment Sheets		Sheet	0	0	0	N/A
5.23	Selective Clearing and Grubbing Sheet(s)						
5.23.1	Selective Clearing and Grubbing		Sheet	0	0	0	N/A
5.23.2	Selective Clearing and Grubbing Details		Sheet	0	0	0	N/A
5.24	Tree Disposition Sheet(s)						
5.24.1	Tree Disposition Plan Sheet(s)		Sheet	0	0	0	N/A
5.24.2	Tree Disposition Plan Tables and Schedules		Sheet	0	0	0	N/A
5.25	Project Network Control Sheet(s)		Sheet	1	1	1	
5.26	Preliminary Engineering Report for NEPA		LS	1	140	140	Prepare PER document for NEPA (FDOT)
5.27	Utility Verification Sheet(s) (SUE Data)		Sheet	1	8	8	
					Roadway Plans Technical Subtotal	**786**	
5.28	Quality Assurance/Quality Control		LS	%	7%	55	
5.29	Supervision		LS	%	5%	39	
					5. Roadway Plans Total	**880**	

Project Activity 6a: Drainage Analysis

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

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	4	24	96	Delineate drainage divides to each inlet and cross drain to be used in defining the system hydrology. Obtain and incorporate any Lidar, Quad Map or field data information needed to supplement ground survery. 2 pre-development and 2 post-development maps (this task works with task 6b.1)
6a.2	Base Clearance Calculations	Per Location	3	8	24	Analyze, determine, and document high water elevations per basin which will be used to set roadway profile grade and roadway materials (pavement design). Estimate 3 basins for analysis based on existing ponds adjacent to roadway.
6a.3	Pond Siting Analysis and Report	Per Basin	1	40	40	Evaluate pond sites using a preliminary hydrologic analysis. Document the results and coordination for all the project's pond site analyses.
6a.4	Design of Cross Drains	EA	0	0	0	
6a.5	Design of Ditches	Per Ditch Mile	0	0	0	
6a.6	Design of Stormwater Management Facility (Offsite or Infield Pond)	EA	3	40	120	Design stormwater management facilities to meet requirements for stormwater quality treatment, attenuation and aesthetics. Develop proposed pond layout (contributing drainage basin, shape, contours, slopes, volumes, tie-ins, aesthetics, etc.), perform routing, pollutant/nutrient loading calculations, recovery calculations, design the outlet control structure and buoyancy calculations for pond liners when necessary. Assume one new pond and modification of two existing ponds.
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	12	12	Determine floodplain encroachments, coordinate with regulatory agencies, and develop proposed compensation area layout (shape, contours, slopes, volumes, etc.). Document the design following the requirements of the regulatory agency. The majority of the project is within a FEMA Flood Zone. Assume a "cup for cup" analysis is required.
6a.9	Design of Storm Drains	EA	39	2	78	Determine runoff, inlet locations, and spread. Calculate hydraulic losses (friction, utility conflict and, if necessary, minor losses). Determine design tailwater and, if necessary, outlet scour protection. Assume 2 inlets every 300 feet. 4500' along Bay Street plus 500' along Gator Bowl Blvd = 5000'. 5000 / 300 = 17. 17 x 2 = 34 Add 5 for miscellaneous MH and MES structures.
6a.10	Optional Culvert Material	EA	0	0	0	
6a.11	French Drain Systems	Per Cell	0	0	0	
6a.11.a	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	Compile drainage design documentation into report format. Include documentation for all the drainage design tasks and associated meetings and decisions, except for stand-alone reports, such as the Pond Siting Analysis Report. For 4 Phase TCP
6a.14	Bridge Hydraulic Report	EA	0	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	40	40	Evaluate and address drainage to adequately drain the road and maintain existing offsite drainage during all construction phases. Provide documentation.
6a.16	Cost Estimate	LS	1	16	16	Prepare cost estimates for the drainage components.
6a.17	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
6a.18	Hydroplaning Analysis	LS	1	0	0	
6a.19	Existing Permit Analysis	LS	1	16	16	Data gathering including desktop analysis of local, state and federal Drainage permits.
6a.20	Other Drainage Analysis	LS	1	0	0	
				Drainage Analysis Technical Subtotal	**502**	
6a.21	Field Reviews	LS	1	12	12	2 people x 2 trips x 3 hours (15 minutes travel to, 2.5 hours at site, 15 minutes travel from) = 12
6a.22	Technical Meetings	LS	1	26	26	Meetings are listed below
6a.23	Environmental Look-Around (ELA) Meeting	LS	1	0	0	
6a.24	Quality Assurance/Quality Control	LS	%	7%	35	
6a.25	Independent Peer Review	LS	%	0%	0	
6a.26	Supervision	LS	%	4%	20	
				Drainage Analysis Nontechnical Subtotal	**93**	
6a.27	Coordination	LS	%	3%	18	
				6a. Drainage Analysis Total	**613**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Base Clearance Water Elevation	EA	0	0	0			0
Pond Siting	EA	1	6	6	2 hour prep, 2 hour meeting, 2 hours for meeting minutes	yes	1
Agency	EA	1	6	6	2 hour prep, 2 hour meeting, 2 hours for meeting minutes	yes	1
Local Governments (cities, counties)	EA	1	6	6	2 hour prep, 2 hour meeting, 2 hours for meeting minutes	yes	1
FDOT Drainage	EA	0	0	0			0
Other Meetings	EA	0	0	0		no	0
Subtotal Technical Meetings				**18**			**3**
Progress Meetings (if required by FDOT)	EA	2	2	4	*PM attendance at Progress Meetings is manually entered on General Task 3*		- -
Phase Review Meetings	EA	2	2	4	*PM attendance at Phase Review Meetings is manually entered on General Task 3*		- -
Total Meetings				**26**	**Total Project Manager Meetings (carries to Tab 3)**		**3**

Carries to 6.19

Carries to Tab 3

6b. Drainage Plans

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

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	4	48	192	2 pre-development and 2 post-development maps at 1 = 200' scale.
6b.2	Bridge Hydraulics Recommendation Sheets		Sheet	0	0	0	
6b.3	Summary of Drainage Structures		Sheet	0	0	0	
6b.4	Optional Pipe/Culvert Material		Sheet	0	0	0	
6b.5	Drainage Structure Sheet(s) (Per Structure)		EA	0	0	0	
6b.6	Miscellaneous Drainage Detail Sheets		Sheet	2	16	32	Control structure details for three pond outfalls.
6b.7	Lateral Ditch Plan/Profile		Sheet	1	16	16	Assume one sheet will be needed to show outfall from new pond site to St. Johns River.
6b.8	Lateral Ditch Cross Sections		EA	0	0	0	Assume outfall will be piped and not ditched.
6b.9	Retention/Detention Ponds Detail Sheet(s)		Sheet	3	32	96	
6b.10	Retention Pond Cross Sections		EA	11	0.25	3	Cross sections every 50 feet, assume pond is 500 feet long.
6b.11	Erosion Control Plan Sheet(s)		Sheet	48	1	48	will be shown on 4 Phases of TCP Plans
6b.12	SWPPP Sheet(s)		Sheet	2	6	12	
					Drainage Plans Technical Subtotal	**399**	
6b.13	Quality Assurance/Quality Control		LS	%	7%	28	
6b.14	Supervision		LS	%	5%	20	
					6. Drainage Plans Total	**447**	

Project Activity 7: Utilities

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

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	1	4	4	Meeting is listed below
7.2	Identify Existing Utility Agency Owners (UAO(s))	LS	1	0	0	N/A
7.3	Make Utility Contacts	LS	1	0	0	N/A
7.4	Exception Processing	LS	1	0	0	N/A
7.5	Preliminary Utility Meeting	LS	1	0	0	Meeting is listed below
7.6	Individual/Field Meetings	LS	1	16	16	Meetings are listed below
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	0	0	N/A
7.8	Subordination of Easements Coordination	LS	1	0	0	N/A
7.9	Utility Design Meeting	LS	1	0	0	Meeting is listed below
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LS	1	12	12	review UAO markups, comment, design adjustments
7.11	Utility Coordination/Followup	LS	1	0	0	N/A
7.12	Utility Constructability Review	LS	1	0	0	N/A
7.13	Additional Utility Services	LS	1	0	0	N/A
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	N/A
7.15	Contract Plans to UAO(s)	LS	1	0	0	N/A
7.16	Certification/Close-Out	LS	1	0	0	N/A
7.17	Other Utilities	LS	1	32	32	Provide Utility Conflict Matrix
				7. Utilities Total	**64**	

Project Activity 7: Utilities

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Kickoff (see 7.1)	EA	1	4	4	yes	1
Preliminary Meeting (see 7.5)	EA	0	0	0		0
Individual UAO Meetings (see 7.6)	EA	2	4	8	yes	2
Field Meetings (see 7.6)	EA	2	4	8	yes	2
Design Meeting (see 7.9)	EA	0	0	0		0
Other Meetings *(this is automatically added into Utilities Total (cell F27))*	EA	0	0	0		0
Total Meetings				**20**	**Total Project Manager Meetings (carries to Tab 3)**	**5**

Carries to Tab 3

Project Activity 8: Environmental Permits

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
	Environmental Permits, Compliances and Clearances					
8.1	Preliminary Project Research	LS	1	0	0	
	Permits					
8.2	**Field Work**					
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	
8.2.4	Archeological Surveys	LS	1	0	0	
8.3	Agency Verification of Wetland Data	LS	1	0	0	
8.4	**Complete And Submit All Required Permit Applications**					
8.4.1	Complete and Submit All Required Wetland Permit Applications	LS	1	100	100	Prepare and submit permit documents including project location map, aerial map, FEMA map and soils map. Also anticipate responding to RAI and updating permit application based on design changes.
8.4.2	Complete and Submit All Required Species Permit Applications	LS	1	0	0	
8.5	Prepare Dredge and Fill Sketches (as needed)	LS	1	0	0	
8.6	Prepare USCG Permit Sketches	LS	1	0	0	
8.7	Prepare Water Management District Right-of-Way Occupancy Permit	LS	1	0	0	
8.8	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.9	Prepare Tree Permit Information	LS	1	0	0	
8.10	Mitigation Design	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	0	0	
8.12	Other Environmental Permits	LS	1	0	0	

Project Activity 8: Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
	Environmental Clearances/Reevaluations					
8.13	**Technical support to Department for Environmental Clearances and Reevaluations (use when consultant provides technical support only)**					
8.13.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.13.2	Archaeological and Historical Features	LS	1	0	0	
8.13.3	Wetland Impact Analysis	LS	1	0	0	
8.13.4	Essential Fish Habitat	LS	1	0	0	
8.13.5	Wildlife and Habitat Impact Analysis	LS	1	0	0	
8.13.6	Section 7 or Section 10 Consultation	LS	1	0	0	
8.14	**Preparation of Environmental Clearances and Reevaluations (use when consultant prepares all documents associated with reevaluation)**					
8.14.1	NEPA or SEIR Reevaluation	LS	1	0	0	
8.14.2	Archaeological and Historical Features	LS	1	0	0	
8.14.3	Wetland Impact Analysis	LS	1	0	0	
8.14.4	Essential Fish Habitat	LS	1	0	0	
8.14.5	Wildlife and Habitat Impact Analysis	LS	1	0	0	
8.14.6	Section 7 or Section 10 Consultation	LS	1	0	0	
8.15	Contamination Impact Analysis	LS	1	0	0	
8.16	Asbestos Survey	LS	1	0	0	

Project Activity 8: Environmental Permits

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments
	Environmental Permits, Compliance, and Clearances/Reevaluations Technical Subtotal				**100**	
8.17	Technical Meetings	LS	1	0	0	Meetings are listed below
8.18	Quality Assurance/Quality Control	LS	%	5%	5	
8.19	Supervision	LS	%	5%	5	
	Environmental Permits, Compliance and Clearances Nontechnical Subtotal				**10**	
8.20	Coordination	LS	%	3%	3	
	8. Environmental Permits, Compliance and Clearances Total				**113**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
WMD	EA	0	0	0		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	0	0	0		0
Subtotal Technical Meetings				**0**	**Subtotal Project Manager Meetings**	0
Progress Meetings (if required by FDOT)	EA	0	0	0	*PM attendance at Progress Meetings is manually entered on General Task 3*	- -
Phase Review Meetings	EA	0	0	0	*PM attendance at Phase Review Meetings is manually entered on General Task 3*	- -
Total Meetings				**0**	**Total Project Manager Meetings (carries to Tab 3)**	**0**

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Units	Design and Production Staffhours				Comments
			No. of Units	Hours per Unit	No. of Sheets	Total	
	General Drawings						
9.1	Key Sheet and Index of Drawings	Sheet	1	8	1	8	Assume 2 Bridges. **West End** - Incorporate one new steel span and one new concrete span into existing Bridge No. 720114 and renumber bridge to 724XXX (actual number TBD by FDOT). **East End** - Incorporate one new concrete span into existing Bridge No. 720114 and retain existing bridge number.
9.2	Project Layout	Sheet	1	8	1	8	Bridge Key Map.
9.3	General Notes and Bid Item Notes	Sheet	2	18	2	36	General Notes for concrete and steel spans.
9.4	Miscellaneous Common Details	Sheet	2	12	2	24	Existing bridge removal details.
9.5	Incorporate Report of Core Borings	Sheet	2	1	2	2	Assume one sheet for each bridge.
9.6	Design Standards - Bridges	LS	0	0		0	N/A for Concept Plans.
9.7	Existing Bridge Plans	LS	1	8		8	Assemble existing plans for Hart Bridge Expressway. Multiple existing contract plan sets.
9.8	Assemble Plan Summary Boxes and Quantities	LS	0	0		0	N/A for Concept Plans.
9.9	Cost Estimate	LS	1	8		8	Assume one LRE level cost estimate for planning purposes.
9.1	Technical Special Provisions and Modified Special Provisions	LS	0	0		0	N/A for Concept Plans.
	Structures - Summary and Miscellaneous Tasks and Drawings				8	94	

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Task No.	Task	Total	Task 10	Task 11	Task 12	Task 13	Task 14	Task 15	Task 16	Task 17	Task 18
10-16	West End - Bridge No. 724XXX	306	134	0	0	32	140	0	0		
10-16	East End - Bridge No. 720114	160	68	0	0	92	0	0	0		
10-16	Bridge 3	0									
10-16	Bridge 4	0									
10-16	Bridge 5	0									
10-16	Bridge 6	0									
10-16	Bridge 7	0									
10-16	Bridge 8	0									
10-16	Bridge 9	0									
10-16	Bridge 10	0									
17	Retaining Walls	100								100	
18	Miscellaneous Structures	0									0
	Structures Technical Subtotal	566	202	0	0	124	140	0	0	100	0

Project Activity 9: Structures Summary and Miscellaneous Tasks and Drawings

Task No.	Task	Units	No. of Units	Hours per Unit	Total	Comments
9.11	Field Reviews	LS	1	12	12	
9.12	Technical Meetings	LS	1	18	18	Meetings are listed below
9.13	Quality Assurance/Quality Control	LS	%	7%	46	
9.14	Independent Peer Review	LS	1	0	0	
9.15	Supervision	LS	%	5%	33	
	Structures Nontechnical Subtotal				109	
9.16	Coordination	LS	1	68	68	32 hrs. Roadway + 8 hrs. Utilities + 8 hrs. FDOT Bridge Maintenance + 16 hrs. Geotechnical + 4 hrs. Aesthetics
	9. Structures - Summary and Miscellaneous Tasks and Drawings				271	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
BDR Coordination/Review	EA	0	0	0		0
90/100% Comment Review	EA	0	0	0		0
Aesthetics Coordination	EA	0	0	0		0
Regulatory Agency	EA	0	0	0		0
Local Governments (cities, counties)	EA	0	0	0		0
Utility Companies	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings				**0**		**0**
Progress Meetings	EA	6	3	18	*PM attendance at Progress Meetings is manually entered on General Task 3*	- -
Phase Review Meetings	EA	0	0	0	*PM attendance at Phase Review Meetings is manually entered on General Task 3*	- -
Total Meetings				**18**	**Total Project Manager Meetings (carries to Tab 3)**	**0**
				Carries to 9.11		Carries to Tab 3

Project Activity 10: BDR

Estimator:

Bridge Identifier (Number or Name):

Hart Bridge Mod D-B DCP & RFP

P-11-18

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

For West Bridge

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	General Requirement						
10.1	Bridge Geometry	LS	1	32		32	Replace one existing steel span and add one new concrete span over A. Philip Randolph St. Curved superstructure geometry. Coordinate development of horizontal and vertical alignment; calculate vertical and horizontal clearances, alignment skews, and baseline intersections.
10.2	Ship Impact Data Collection	LS	0	0		0	N/A
10.3	Ship Impact Criteria	EA	0	0		0	N/A
	Superstructure Alternatives						
10.4	Short Span Concrete Bridge	EA ALT	0	0		0	N/A
10.5	Medium Span Concrete Bridge	EA ALT	1	12		12	Assume one Florida-I beam span Preliminary beam type selection for Concept Plans
10.6	Long Span Concrete Bridge	EA ALT	0	0		0	N/A
10.7	Structural Steel Bridge	EA ALT	1	0		0	*TASK DEFERRED* Unit 1 - Spans 21D thru 23D; Unit 2 - Spans 22A & 23A; Unit 3 - Spans 24DA & 25DA; Unit 4 - Spans 24MF & 25 MF; Unit 5 - Spans 26MF thru 28; Unit 6 - Spans 29 thru 33; Unit 7 - Span 34; Unit 8 - Spans 35 thru 37 **Assume analysis of Units 6 thru 8 only (i.e. effect of modification of Unit 8 will not propogate past Unit 6).** Preliminary design of one single-span curved steel girder unit = 80 hrs. Analysis of two additional curved steel girder units connected by hinges = 40 hrs. each (assumes 3D modeling for existing spans completed as part of load rating effort) Total = 80 hrs. + 2 * 40 hrs. = 160 hrs.

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Foundation & Substructure Alternatives						
10.8	Pier/Bent	EA Type	2	20		40	1 Pier and 1 End Bent. Define geometry and preliminary analysis. 32 hrs. Pier + 8 hrs. End Bent = 40 hrs. Total
10.9	Shallow Foundations / GRS Abutments	EA Type	0	0		0	N/A
10.10	Deep Foundations	EA Foundation Evaluated	2	11		22	1 Pier and 1 End Bent. Define pile configuration and calculate pile loads. 16hrs. Pier + 6 hrs. End Bent = 22 hrs. Total
	Movable Span						
10.11	Data Collection and Design Criteria	LS	1	0		0	N/A
10.12	Movable Span Geometrics and Clearances	LS	1	0		0	N/A
10.13	Deck System Evaluation	LS	1	0		0	N/A
10.14	Framing Plan Development	LS	1	0		0	N/A
10.15	Main Girder Preliminary Design	LS	1	0		0	N/A
10.16	Conceptual Span Balance/Counterweight	LS	1	0		0	N/A
10.17	Support System Development	LS	1	0		0	N/A
10.18	Drive Power Calculations	LS	1	0		0	N/A
10.19	Drive System Development	LS	1	0		0	N/A
10.20	Power and Control Development	LS	1	0		0	N/A
10.21	Conceptual Pier Design	LS	1	0		0	N/A
10.22	Foundation Analysis (FL PIER)	LS	1	0		0	N/A
10.23	Tender Visibility Study	LS	1	0		0	N/A

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Other BDR Issues						
10.24	Aesthetics	LS	0	0		0	See Task 9 - Coordination.
10.25	TCP/Staged Construction Requirements	LS	0	0		0	N/A
10.26	Constructibility Requirements	LS	1	8		8	Evaluate construction access and constructability.
10.27	Load Rating for damaged/widened structures	EA Unit	3	0		0	*TASK DEFERRED* Load rating of existing structure in existing condition consistent with the requirements of SDG 7.1.1. **Assume load rating of Units 6 thru 8 only. Model Unit 5 to determine Unit 6 reactions at hinge. Remaining existing spans not affected by the proposed modifications will be load rated by the Design-Build Firm during final design.** 40 hrs. Unit 5 (Modeling Only) + 80 hrs. Unit 6 + 120 hrs. Unit 7 (Integral Piers) + 80 hrs. Unit 8 = 320 hrs. 4 Field Splices x 8 hrs. each = 32 hrs. Total = 320 hrs. + 32 hrs. = 352 hrs., Say 354 hrs.
10.28	Quantity and Cost Estimates	EA ALT	1	20		20	Establish unit prices, develop quantitites and cost estimates.
10.29	Quantity and Cost Estimates - Movable Span	LS	0	0		0	N/A
10.30	Wall Type Justification	LS	0	0		0	N/A
	Report Preparation						
10.31	Exhibits	EA SHEET	0	0		0	
10.32	Exhibits - Movable Span	EA SHEET	0	0		0	
10.33	Report Preparation	LS	1	0		0	
10.34	Report Preparation - Movable Span	LS	1	0		0	
10.35	BDR Submittal Package	LS	1	0		0	
	10. Structures - Bridge Development Report Total					**134**	
	When ONLY 30% plans are final deliverable, use Task Nos. as shown for applicable bridge types for project Activities 12 thru 16. Staffhours to be negotiated and scaled appropriately.						

Project Activity 10: BDR

Estimator:

Bridge Identifier (Number or Name):

Hart Bridge Mod D-B DCP & RFP

P-11-18

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

For East Bridge

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	General Requirement						
10.1	Bridge Geometry	LS	1	16		16	Add one new concrete span over service road. Curved superstructure geometry. Coordinate development of horizontal and vertical alignment; calculate vertical and horizontal clearances, alignment skews, and baseline intersections.
10.2	Ship Impact Data Collection	LS	0	0		0	N/A
10.3	Ship Impact Criteria	EA	0	0		0	N/A
	Superstructure Alternatives						
10.4	Short Span Concrete Bridge	EA ALT	0	0		0	N/A
10.5	Medium Span Concrete Bridge	EA ALT	1	12		12	Assume one Florida-I beam span. Preliminary beam type selection for Concept Plans.
10.6	Long Span Concrete Bridge	EA ALT	0	0		0	N/A
10.7	Structural Steel Bridge	EA ALT	0	0		0	N/A
	Foundation & Substructure Alternatives						
10.8	Pier/Bent	EA Type	2	7		14	1 End Bent + 1 Existing Pier Define geometry and preliminary analysis. Confirm loading on existing pier is not increased. 8 hrs. End Bent + 6 hrs. existing pier = 14 hrs. Total
10.9	Shallow Foundations / GRS Abutments	EA Type	0	0		0	N/A
10.10	Deep Foundations	EA Foundation Evaluated	1	6		6	1 Pier and 1 End Bent. Define pile configuration and calculate pile loads.

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Movable Span						
10.11	Data Collection and Design Criteria	LS	1	0		0	N/A
10.12	Movable Span Geometrics and Clearances	LS	1	0		0	N/A
10.13	Deck System Evaluation	LS	1	0		0	N/A
10.14	Framing Plan Development	LS	1	0		0	N/A
10.15	Main Girder Preliminary Design	LS	1	0		0	N/A
10.16	Conceptual Span Balance/Counterweight	LS	1	0		0	N/A
10.17	Support System Development	LS	1	0		0	N/A
10.18	Drive Power Calculations	LS	1	0		0	N/A
10.19	Drive System Development	LS	1	0		0	N/A
10.20	Power and Control Development	LS	1	0		0	N/A
10.21	Conceptual Pier Design	LS	1	0		0	N/A
10.22	Foundation Analysis (FL PIER)	LS	1	0		0	N/A
10.23	Tender Visibility Study	LS	1	0		0	N/A

Project Activity 10: BDR

Task No.	Task	Units	No of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Other BDR Issues						
10.24	Aesthetics	LS	0	0		0	See Task 9 - Coordination.
10.25	TCP/Staged Construction Requirements	LS	0	0		0	N/A
10.26	Constructibility Requirements	LS	1	8		8	Evaluate construction access and constructability.
10.27	Load Rating for damaged/widened structures	EA Unit	0	0		0	**N/A - Assume existing spans not affected by the proposed modifications will be load rated by the Design-Build Firm during final design.**
10.28	Quantity and Cost Estimates	EA ALT	1	12		12	Establish unit prices, develop quantitites and cost estimates.
10.29	Quantity and Cost Estimates - Movable Span	LS	0	0		0	N/A
10.30	Wall Type Justification	LS	0	0		0	N/A
	Report Preparation						
10.31	Exhibits	EA SHEET	0	0		0	See Tasks 13 & 14 for Concept Plans effort.
10.32	Exhibits - Movable Span	EA SHEET	0	0		0	N/A
10.33	Report Preparation	LS	0	0		0	N/A
10.34	Report Preparation - Movable Span	LS	0	0		0	N/A
10.35	BDR Submittal Package	LS	0	0		0	N/A
	10. Structures - Bridge Development Report Total					**68**	
	When ONLY 30% plans are final deliverable, use Task Nos. as shown for applicable bridge types for project Activities 12 thru 16. Staffhours to be negotiated and scaled appropriately.						

Project Activity 13: Structures- Medium Span Concrete

Estimator:
Bridge Identifier (Number or Name):

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

For West Bridge

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	General Layout Design and Plans						
13.1	Overall Bridge Final Geometry	LS	0	0		0	See Task 10
13.2	Expansion/Contraction Analysis	EA Unit	0	0		0	N/A
13.3	General Plan and Elevation	Sheet	0	0	0	0	See Task 14
13.4	Construction Staging	Sheet	0	0	0	0	N/A
13.5	Approach Slab Plan and Details	Sheet	0	0	0	0	N/A
13.6	Miscellaneous Details	Sheet	0	0	0	0	N/A
	End Bent Design and Plans						
13.7	End Bent Geometry	EA End Bent	0	0		0	See Task 10
13.8	Wingwall Design and Geometry	EA End Bent	0	0		0	N/A
13.9	End Bent Structural Design	EA Design	0	0		0	See Task 10
13.10	End Bent Plan and Elevation	Sheet	1	20	1	20	
13.11	End Bent Details	Sheet	0	0	0	0	N/A

Project Activity 13: Structures- Medium Span Concrete

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Intermediate Bent Design and Plans						
13.12	Bent Geometry	EA Bent	0	0		0	N/A
13.13	Bent Stability Analysis	EA Design	0	0		0	N/A
13.14	Bent Structural Design	EA Design	0	0		0	N/A
13.15	Bent Plan and Elevation	Sheet	0	0	0	0	N/A
13.16	Bent Details	Sheet	0	0	0	0	N/A
	Pier Design and Plans						
13.17	Pier Geometry	EA Pier	0	0		0	See Task 10
13.18	Pier Stability Analysis	EA Design	0	0		0	N/A
13.19	Pier Structural Design	EA Design	0	0		0	See Task 10
13.20	Pier Plan and Elevation	Sheet	0	0	0	0	See Task 14
13.21	Pier Details	Sheet	0	0	0	0	N/A
	Miscellaneous Substructure Design and Plans						
13.22	Foundation Layout	Sheet	0	0	0	0	See Task 14
	Superstructure Deck Design and Plans						
13.23	Finish Grade Elevation (FGE) Calculation	LS	0	0		0	N/A
13.24	Finish Grade Elevations	Sheet	0	0	0	0	N/A
13.25	Bridge Deck Design	EA Section	0	0		0	N/A
13.26	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	0	0		0	N/A
13.27	Diaphragm Design	EA Section	0	0		0	N/A

Project Activity 13: Structures- Medium Span Concrete

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
13.28	Superstructure Plan	Sheet	0	0	0	0	N/A
13.29	Superstructure Section	Sheet	1	12	1	12	
13.30	Miscellaneous Superstructure Details	Sheet	0	0	0	0	N/A.
	Reinforcing Bar Lists						
13.31	Preparation of Reinforcing Bar List	Sheet	0	0	0	0	N/A
	Continuous Concrete Girder Design						
13.32	Section Properties	LS	1	0		0	N/A
13.33	Material Properties	LS	1	0		0	N/A
13.34	Construction Sequence	EA Unit	0	0		0	N/A
13.35	Tendon Layouts	EA Unit	0	0		0	N/A
13.36	Live Load Analysis	EA Unit	0	0		0	N/A
13.37	Temperature Gradient	EA Unit	0	0		0	N/A
13.38	Time Dependent Analysis	EA Unit	0	0		0	N/A
13.39	Stress Summary	EA Unit	0	0		0	N/A
13.40	Ultimate Moments	EA Unit	0	0		0	N/A
13.41	Ultimate Shear	EA Unit	0	0		0	N/A
13.42	Construction Loading	EA Unit	0	0		0	N/A
13.43	Framing Plan	Sheet	0	0	0	0	N/A

Project Activity 13: Structures- Medium Span Concrete

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
13.44	Girder Elevation, including Grouting Plan and Vent Locations	Sheet	0	0	0	0	N/A
13.45	Girder Details	Sheet	0	0	0	0	N/A
13.46	Erection Sequence	Sheet	0	0	0	0	N/A
13.47	Splice Details	Sheet	0	0	0	0	N/A
13.48	Girder Deflections and Camber	Sheet	0	0	0	0	N/A
	Simple Span Concrete Design						
13.49	Prestressed Beam	EA Design	0	0		0	See Task 10
13.50	Prestressed Beam Schedules	Sheet	0	0	0	0	N/A
13.51	Framing Plan	Sheet	0	0	0	0	Combined with Steel - See Task 14
	Beam Stability						
13.52	Beam/girder stability	EA Unit	0	0		0	N/A
	Bearing						
13.53	Bearing pad and bearing plate design	Type/ Span	0	0		0	N/A
13.54	Bearing pad and bearing plate details	Sheet	0	0	0	0	N/A
	Load Rating						
13.55	Load Ratings	Per Beam	0	0		0	N/A
	13. Structures - Medium Span Concrete Bridge Total				**2**	**32**	

Project Activity 13: Structures- Medium Span Concrete

Estimator:
Bridge Identifier (Number or Name):

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

For East Bridge

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	General Layout Design and Plans						
13.1	Overall Bridge Final Geometry	LS	0	0		0	See Task 10
13.2	Expansion/Contraction Analysis	EA Unit	0	0		0	N/A
13.3	General Plan and Elevation	Sheet	1	40	1	40	
13.4	Construction Staging	Sheet	0	0	0	0	N/A
13.5	Approach Slab Plan and Details	Sheet	0	0	0	0	N/A
13.6	Miscellaneous Details	Sheet	0	0	0	0	N/A
	End Bent Design and Plans						
13.7	End Bent Geometry	EA End Bent	0	0		0	See Task 10
13.8	Wingwall Design and Geometry	EA End Bent	0	0		0	N/A
13.9	End Bent Structural Design	EA Design	0	0		0	See Task 10
13.10	End Bent Plan and Elevation	Sheet	1	16	1	16	
13.11	End Bent Details	Sheet	0	0	0	0	N/A

Project Activity 13: Structures- Medium Span Concrete

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Intermediate Bent Design and Plans						
13.12	Bent Geometry	EA Bent	0	0		0	N/A
13.13	Bent Stability Analysis	EA Design	0	0		0	N/A
13.14	Bent Structural Design	EA Design	0	0		0	N/A
13.15	Bent Plan and Elevation	Sheet	0	0	0	0	N/A
13.16	Bent Details	Sheet	0	0	0	0	N/A
	Pier Design and Plans						
13.17	Pier Geometry	EA Pier	0	0		0	N/A - See Task 10
13.18	Pier Stability Analysis	EA Design	0	0		0	N/A
13.19	Pier Structural Design	EA Design	0	0		0	N/A - See Task 10
13.20	Pier Plan and Elevation	Sheet	0	0	0	0	N/A
13.21	Pier Details	Sheet	0	0	0	0	N/A
	Miscellaneous Substructure Design and Plans						
13.22	Foundation Layout	Sheet	1	20	1	20	
	Superstructure Deck Design and Plans						
13.23	Finish Grade Elevation (FGE) Calculation	LS	0	0		0	N/A
13.24	Finish Grade Elevations	Sheet	0	0	0	0	N/A
13.25	Bridge Deck Design	EA Section	0	0		0	N/A
13.26	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	0	0		0	N/A
13.27	Diaphragm Design	EA Section	0	0		0	N/A

Project Activity 13: Structures- Medium Span Concrete

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
13.28	Superstructure Plan	Sheet	0	0	0	0	N/A
13.29	Superstructure Section	Sheet	1	16	1	16	Typical Section for Concept Plans
13.30	Miscellaneous Superstructure Details	Sheet	0	0	0	0	N/A
	Reinforcing Bar Lists						
13.31	Preparation of Reinforcing Bar List	Sheet	0	0	0	0	N/A
	Continuous Concrete Girder Design						
13.32	Section Properties	LS	0	0		0	N/A
13.33	Material Properties	LS	0	0		0	N/A
13.34	Construction Sequence	EA Unit	0	0		0	N/A
13.35	Tendon Layouts	EA Unit	0	0		0	N/A
13.36	Live Load Analysis	EA Unit	0	0		0	N/A
13.37	Temperature Gradient	EA Unit	0	0		0	N/A
13.38	Time Dependent Analysis	EA Unit	0	0		0	N/A
13.39	Stress Summary	EA Unit	0	0		0	N/A
13.40	Ultimate Moments	EA Unit	0	0		0	N/A
13.41	Ultimate Shear	EA Unit	0	0		0	N/A
13.42	Construction Loading	EA Unit	0	0		0	N/A
13.43	Framing Plan	Sheet	0	0	0	0	N/A

Project Activity 13: Structures- Medium Span Concrete

Task No.	Task	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
13.44	Girder Elevation, including Grouting Plan and Vent Locations	Sheet	0	0	0	0	N/A
13.45	Girder Details	Sheet	0	0	0	0	N/A
13.46	Erection Sequence	Sheet	0	0	0	0	N/A
13.47	Splice Details	Sheet	0	0	0	0	N/A
13.48	Girder Deflections and Camber	Sheet	0	0	0	0	N/A
	Simple Span Concrete Design						
13.49	Prestressed Beam	EA Design	0	0		0	See Task 10
13.50	Prestressed Beam Schedules	Sheet	0	0	0	0	N/A
13.51	Framing Plan	Sheet	0	0	0	0	N/A
	Beam Stability						
13.52	Beam/girder stability	EA Unit	0	0		0	N/A
	Bearing						
13.53	Bearing pad and bearing plate design	Type/ Span	0	0		0	N/A
13.54	Bearing pad and bearing plate details	Sheet	0	0	0	0	N/A
	Load Rating						
13.55	Load Ratings	Per Beam	0	0		0	N/A - See Task 10
	13. Structures - Medium Span Concrete Bridge Total				**4**	**92**	

Project Activity 14: Structures -Structural Steel

Estimator:
Bridge Identifier (Number or Name):

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

For West Bridge

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	General Layout Design and Plans						
14.1	Overall Bridge Final Geometry	LS	0	0		0	See Task 10
14.2	Expansion/Contraction Analysis	EA Unit	0	0		0	N/A
14.3	General Plan and Elevation	Sheet	1	40	1	40	
14.4	Construction Staging	Sheet	0	0	0	0	N/A
14.5	Approach Slab Plan and Details	Sheet	0	0	0	0	N/A
14.6	Miscellaneous Details	Sheet	2	0	2	0	*TASK DEFERRED* Develop conceptual strengthening details for existing steel spans.
	End Bent Design and Plans						
14.7	End Bent Geometry	EA Bent	0	0		0	See Task 10
14.8	Wingwall Design and Geometry	EA Bent	0	0		0	N/A
14.9	End Bent Structural Design	EA Design	0	0		0	See Task 10
14.10	End Bent Plan and Elevation	Sheet	0	0	0	0	See Task 13
14.11	End Bent Details	Sheet	0	0	0	0	N/A

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Intermediate Bent Design and Plans						
14.12	Bent Geometry	EA bent	0	0		0	N/A
14.13	Bent Stability Analysis	EA design	0	0		0	N/A
14.14	Bent Structural Design	EA design	0	0		0	N/A
14.15	Bent Plan and Elevation	Sheet	0	0	0	0	N/A
14.16	Bent Details	Sheet	0	0	0	0	N/A
	Pier Design and Plans						
14.17	Pier Geometry	EA pier	0	0		0	See Task 10
14.18	Pier Stability Analysis	EA design	0	0		0	N/A
14.19	Pier Structural Design	EA design	0	0		0	See Task 10
14.20	Pier Plan and Elevation	Sheet	1	16	1	16	
14.21	Pier Details	Sheet	0	0	0	0	N/A
	Miscellaneous Substructure Design and Plans						
14.22	Foundation Layout	Sheet	1	20	1	20	
	Superstructure Deck Design and Plans						
14.23	Finish Grade Elevation (FGE) Calculation	LS	0	0		0	N/A
14.24	Finish Grade Elevations	Sheet	0	0	0	0	N/A
14.25	Bridge Deck Design	EA section	0	0		0	N/A
14.26	Bridge Deck Reinforcing and Concrete Quantities	EA Unit	0	0		0	N/A
14.27	Superstructure Plan	Sheet	0	0	0	0	N/A
14.28	Superstructure Section	Sheet	1	12	1	12	
14.29	Miscellaneous Bridge Deck Details	Sheet	0	0	0	0	N/A

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Reinforcing Bar Lists						
14.30	Preparation of Reinforcing Bar List	Sheet	0	0	0	0	N/A
	Structural Steel Plate Girder Design						
14.31	Unit Modeling	EA Unit	0	0		0	See Task 10
14.32	Section Design	EA Unit	1	0		0	*TASK DEFERRED* Design of conceptual strengthening details for existing steel spans.
14.33	Stiffener Design and Locations	EA Unit	0	0		0	N/A
14.34	Cross-Frame Design	EA Unit	0	0		0	N/A
14.35	Connections	EA Unit	0	0		0	N/A
14.36	Bearing Assembly Design and Detailing (with Jacking Analysis)	EA Unit	0	0		0	N/A
14.37	Splice Design	EA Unit	0	0		0	N/A
14.38	Shear Stud Connectors	EA Unit	0	0		0	N/A
14.39	Deflection Analysis	EA Unit	0	0		0	N/A
14.40	Framing Plan	Sheet	1	24	1	24	Includes concrete span.
14.41	Girder Elevation	Sheet	1	12	1	12	
14.42	Structural Steel Details	Sheet	1	16	1	16	Hinge details.
14.43	Splice Details	Sheet	0	0	0	0	N/A
14.44	Girder Deflections and Camber	Sheet	0	0	0	0	N/A

Project Activity 14: Structures -Structural Steel

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Structural Steel Box Girder Design						
14.45	Unit Modeling	EA Unit	0	0		0	N/A
14.46	Section Design	EA Unit	0	0		0	N/A
14.47	Stiffener Design and Locations	EA Unit	0	0		0	N/A
14.48	Interior Cross-Frame Design	EA Unit	0	0		0	N/A
14.49	Exterior Cross-Frame Design	EA Unit	0	0		0	N/A
14.50	Connections	EA Unit	0	0		0	N/A
14.51	Bearing Assembly Design and Detailing (with Jacking Analysis)	EA Unit	0	0		0	N/A
14.52	Splice Design	EA Unit	0	0		0	N/A
14.53	Shear Stud Connectors	EA Unit	0	0		0	N/A
14.54	Deflection Analysis	EA Unit	0	0		0	N/A
14.55	Framing Plan	Sheet	0	0	0	0	N/A
14.56	Girder Elevation	Sheet	0	0	0	0	N/A
14.57	Structural Steel Details	Sheet	0	0	0	0	N/A
14.58	Splice Details	Sheet	0	0	0	0	N/A
14.59	Girder Deflections and Camber	Sheet	0	0	0	0	N/A
	Erection Scheme						
14.60	Erection scheme analysis	EA Critical Stage	0	0		0	N/A
14.61	Erection scheme	Sheet	0	0	0	0	N/A
	Load Rating						
14.62	Load Rating	EA Unit	0	0		0	See Task 10
	14. Structures - Structural Steel Bridge Total				**9**	**140**	

Project Activity 17: Retaining Walls

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

Representing	Print Name	Signature / Date

NOTE: Signature Block is optional, per District preference

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	General Requirements						
17.1	Key Sheet	Sheet	1	16	1	16	
17.2	Horizontal Wall Geometry	Per Wall	6	6		36	
	Permanent Proprietary Walls						
17.3	Vertical Wall Geometry	Per Wall	0	0		0	N/A - Horizontal geometry only for Concept Plans
17.4	Semi-Standard Drawings	Sheet	0	0	0	0	N/A
17.5	Wall Plan and Elevations (Control Drawings)	Sheet	4	12	4	48	Horizontal geometry only
17.6	Details	Sheet	0	0	0	0	N/A
	Temporary Proprietary Walls						
17.7	Vertical Wall Geometry	Per Wall	0	0		0	N/A
17.8	Semi-Standard Drawings	Sheet	0	0	0	0	N/A
17.9	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	N/A
17.10	Details	Sheet	0	0	0	0	N/A
	Cast-in-Place Retaining Walls						
17.11	Design	EA Design	0	0		0	N/A
17.12	Vertical Wall Geometry	EA Wall	0	0		0	N/A
17.13	General Notes	Sheet	0	0	0	0	N/A
17.14	Wall Plan and Elevations (Control Drawings)	Sheet	0	0	0	0	N/A
17.15	Sections and Details	Sheet	0	0	0	0	N/A
17.16	Reinforcing Bar List	Sheet	0	0	0	0	N/A

Project Activity 17: Retaining Walls

Task No.	Task	Unit	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
	Other Retaining Walls and Bulkheads						
17.17	Design	EA Design	0	0		0	N/A
17.18	Vertical Wall Geometry	EA Wall	0	0		0	N/A
17.19	General Notes, Tables and Misc. Details	Sheet	0	0	0	0	N/A
17.20	Wall Plan and Elevations	Sheet	0	0	0	0	N/A
17.21	Details	Sheet	0	0	0	0	N/A
		17. Structures - Retaining Walls Total			**5**	**100**	

Project Activity 18: Miscellaneous Structures

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

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
	Concrete Box Culvert						
18.1	Concrete Box Culverts	EA	0	0		0	
18.2	Concrete Box Culverts Extensions	EA Extension	0	0		0	
18.3	Concrete Box Culvert Data Table Plan Sheets	Sheet	0	0	0	0	
18.4	Concrete Box Culvert Special Details Plan Sheets	Sheet	0	0	0	0	
	Strain Poles						
18.5	Steel Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.6	Concrete Strain Poles	Initial Config	0	0		0	
		EA Add'l Config	0	0		0	
18.7	Strain Pole Data Table Plan Sheets	Sheet	0	0	0	0	
18.8	Strain Pole Special Details Plan Sheets	Sheet	0	0	0	0	
	Mast Arms						
18.9	Mast Arms	EA Design	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	
	Overhead/Cantilever Sign Structures						
18.12	Cantilever Sign Structures	EA Design	0	0		0	
18.13	Overhead Span Sign Structures	EA Design	0	0		0	
18.14	Special (Long Span) Overhead Span Sign Structures	EA Design	0	0		0	
18.15	Monotube Overhead Sign Structure	EA Design	0	0		0	
18.16	Bridge Mounted Signs (Attached to Superstr.)	EA Design	0	0		0	
18.17	Overhead and Cantilever Sign Structures Data Table Plan Sheets	Sheet	0	0	0	0	
18.18	Overhead and Cantilever Sign Structures Special Details Plan Sheets	Sheet	0	0	0	0	
	High Mast Lighting						
18.19	Non-Standard High Mast Lighting Structures	EA Design	0	0		0	
18.20	High Mast Lighting Special Details Plan Sheets	Sheet	0	0	0	0	
	Noise Barrier Walls (Ground Mount)						
18.21	Horizontal Wall Geometry	EA Wall	0	0		0	
18.22	Vertical Wall Geometry	EA Wall	0	0		0	
18.23	Summary of Quantities - Aesthetic Requirements	Sheet	0	0	0	0	
18.24	Control Drawings	Sheet	0	0	0	0	
18.25	Design of Noise Barrier Walls Covered by Standards	EA Design	0	0		0	
18.26	Design of Noise Barrier Walls Not Covered by Standards	EA Design	0	0		0	
18.27	Aesthetic Details	LS	1	0		0	
	Special Structures						

Project Activity 18: Miscellaneous Structures

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

Project Activity 23: Lighting Analysis

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

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	LS	1	0	0	
23.3	Aeronautical Evaluation	LS	1	0	0	
23.4	Voltage Drop Calculations	EA	0	0	0	
23.5	FDEP Coordination and Report	LS	1	0	0	
23.6	Reference and Master Design Files	LS	1	0	0	
23.7	Temporary Lighting	LS	1	0	0	
23.8	Design Documentation	LS	1	0	0	
23.9	Quantities	LS	1	0	0	
23.10	Cost Estimate	LS	1	0	0	
23.11	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
23.12	Other Lighting Analysis	LS	1	16	16	Coordinate Lighting Details for RFP
				Lighting Analysis Technical Subtotal	**16**	
23.13	Field Reviews	LS	1	0	0	
23.14	Technical Meetings	LS	1	0	0	
23.15	Quality Assurance/Quality Control	LS	%	0%	0	
23.16	Independent Peer Review	LS	%	0%	0	
23.17	Supervision	LS	%	0%	0	
				Lighting Analysis Nontechnical Subtotal	**0**	
23.18	Coordination	LS	%	0%	0	
				23. Lighting Analysis Total	**16**	

Project Activity 23: Lighting Analysis

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	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	0	0	0		0
Subtotal Technical Meetings				**0**	**Subtotal Project Manager Meetings**	0
Progress Meetings (if required by FDOT)	EA	0	0	0	*PM attendance at Progress Meetings is manually entered on General Task 3*	- -
Phase Review Meetings	EA	0	0	0	*PM attendance at Phase Review Meetings is manually entered on General Task 3*	- -
Total Meetings				**0**	**Total Project Manager Meetings (carries to Tab 3)**	**0**

Carries to 23.14

Carries to Tab 3

33. ITS Analysis

Estimator:

Hart Bridge Mod D-B DCP & RFP
P-11-18

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/ Unit	Total Hours	Comments
33.1	ITS Analysis	LS	1	0	0	
33.2	Communications Plan Analysis	LS	1	0	0	
33.3	Lightning Protection Analysis	Per Site	0	0	0	
33.4	Power Subsystem	LS	1	0	0	
33.5	Voltage Drop Calculations	LS	1	0	0	
33.6	Design Documentation	LS	1	0	0	
33.7	Existing ITS System	LS	1	0	0	
33.8	Queue Analysis	PI	0	0	0	
33.9	Reference and Master ITS Design File	PI	0	0	0	
33.10	Reference and Master Communications Design File	PI	0	0	0	
33.11	Pole Elevation Analysis	LS	1	0	0	
33.12	Sign Panel Design Analysis	LS	1	0	0	
33.13	Quantities	Sheet	0	0	0	
33.14	Cost Estimate	LS	1	0	0	
33.15	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	
33.16	Other ITS Analyses	LS	1	16	16	Coordinate ITS Details for RFP
	Intelligent Transportation Systems Analysis Technical Subtotal				**16**	

33. ITS Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
33.17	Field Reviews	LS	1	0	0	
33.18	Technical Meetings	LS	1	0	0	Meetings are listed below
33.19	Quality Assurance/Quality Control	LS	%	0%	0	
33.20	Supervision	LS	%	0%	0	
	Intelligent Transportation Systems Analysis Nontechnical Subtotal				**0**	
33.21	Coordination	LS	%	0%	0	
	33. Intelligent Transportation Systems Analysis Total				**16**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0		0
Local Governments (cities, counties, MPO)	EA	0	0	0		0
Utility Owners	EA	0	0	0		0
Field Meetings	EA	0	0	0		0
Other Meetings	EA	0	0	0		0
Subtotal Technical Meetings				**0**	**Subtotal Project Manager Meetings**	0
Progress Meetings (if required by FDOT)	EA	0	0	0	*PM attendance at Progress Meetings is manually entered on General Task 3*	- -
Phase Review Meetings	EA	0	0	0	*PM attendance at Phase Review Meetings is manually entered on General Task 3*	- -
Total Meetings				**0**	**Total Project Manager Meetings (carries to Tab 3)**	**0**

Carries to 33.18

Carries to Tab 3

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Hart Bridge Modification D-B DCP/RFP	2. Proposal Number P-11-18
3. Name of Consultant Cardno, Inc.	4. Date of Proposal 5/15/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor Add/Delete Classifications as needed.	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Chief Surveyor	$65.36	3	$196.08	
Clerical	$24.52	18	$441.36	
Project Mgr./Sr. Utility Coordin	$42.79	132	$5,648.28	
TOTAL DIRECT LABOR		153	Hours	$6,285.72
6. Overhead (Combined Fringe Benefit & Administrative)			194%	$12,177.95
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$18,463.67
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$1,846.37

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs		
	$	
	$	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$0.00
10. SUBCONTRACTS (Lump Sum)		
	$	
	$	
SUB-CONTRACT SUB-TOTAL		$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$20,310.04
11. REIMBURSABLE COSTS (Limiting Amount)		
	$ 0.00	
	$ 0.00	
	$ 0.00	
	$ 0.00	
SUB-TOTAL REIMBURSABLES		$0.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$20,310.04**

EXHIBIT G

FOR INFORMATION ONLY - DO NOT SUBMIT WITH YOUR PROPOSAL

Form 1 - SCHEDULE OF PROPOSED PRICES/RATES

NAME OF CONSULTANT Cardno, Inc.

Proposal Number P-11-18 (Hart Bridge Modification D-B DCP/RFP)

1. Average hourly direct labor rates (without Fringe Benefits)

Project Manager (Responsible Professional)	$ 42.79 hr.
Design Engineer or Architect (Registered)	$ _____ hr.
Designer or Technician (Non-Registered)	$ _____ hr.
Drafter or CADD Operator	$ _____ hr.
Field Inspector	$ _____ hr.
Clerical (Typist, Word Processor, Document Assembly, etc.)	$ 24.52 hr.

2. Total Overhead Rate (to be applied to Direct Labor:) 193.74 %

3. Profit Rate (to be applied to Direct Labor plus Overhead) 10.00 %

4. Cost of 4-man survey crew per 8 hour day (If applicable) $ _____ hr.

4. Other Direct Project Costs per Unit (please specify)

_____

_____

_____

6. Estimated percentage of total fee to be performed by subconsultants 0 %

7. Please provide any other relevant rates that may apply to this project including average direct hourly labor rates for other categories of proposed personnel

Chief Surveyor $65.36

_____

_____

UTILITY COORDINATION SERVICES

FOR

STV – City of Jacksonville Project P-11-18 / Professional Design Services for Preparation of DCP & RFP for Harts Expressway Modifications Duval County, Florida

SCOPE OF SERVICES:

Utility Coordination Services:

- Pull Updated design ticket, secure GIS/as-builts and file all information accordingly, setup project folders (Cardno file and Cardno's Utility Status Report Database). UC/UPM to perform onsite field to get familiarized with project and verify UAO's listed Design Ticket to identify possible UAO's not captured on the design ticket.
- Initial Utility Contact - Compile Initial Contact Package with associated plans, clearance forms and send out to the respected UAO's for response. Contact Packages to be sent via Cardno File Share and/or email.
- Attend up to two (2) onsite meetings as needed.
- Attend up to three (3) Utility Coordination meetings with D-B teams during procurement.
- Acquire from UAO's the utility markups, contact forms, and assist UAO's with any documentation needed to achieve preparation of the final RFP package in timely manner.
- Assist with Identifying UWHCA needs of the UAO's.
- Clerical/Admin support for monthly financial closeouts and invoicing.

Project Activity 7: Utilities

Estimator: Terry Crews

Hart Expressway
City of Jacksonville

Representing	Print Name	Signature / Date
FDOT District		
Consultant Name	Cardno	

NOTE: Signature Block is optional, per District preference

Estimate based on 12 utilities - Design Ticket 039804913

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Utility Kickoff Meeting	LA	0	0	0	Not Applicable for this project.
7.2	Identify Existing Utility Agency Owners (UAO(s))	LA	12	2	18	Pull Updated design ticket, secure GIS/as-builts and file accordingly, setup project folders (Cardno file and Cardno's Utility Status Database). UC/UPM to perform onsite field to get familiarized with project and verify UAO's listed Design Ticket to identify possible UAO's not captured on the design ticket. 8 hours allotted for UPM field review.
7.3	Make Utility Contacts	LA	12	0.5	6	Compile Initial Contact Package with associated plans, clearance forms etc...and send out to the UAO's for response. Contact Packages to be sent Cardno File Share and/or email.
7.4	Exception Processing	LA	0	0	0	Not Applicable for this project.
7.5	Preliminary Utility Meeting	LA	0	0	0	Not Applicable for this project.
7.6	Individual/Field Meetings	LA	2	8	16	Estimated as holding two (2) onsite meetings --- 2 hr prep + 2 hrs travel (Held Onsite) + 2 hr mtg + 2 hr minutes
7.7	Collect and Review Plans and Data from UAO(s)	LA	0	0	0	Not Applicable for this project.
7.8	Subordination of Easements Coordination	LA	0	0	0	Not Applicable for this project.
7.9	Utility Design Meeting	LA	3	9	27	Design Meeting with DB Teams During Procurment - 2 hr prep + 2 hrs travel + 2 hr mtg + 3 hr minutes
7.10	Review Utility Markups & Work Schedules, and Processing of Schedules & Agreements	LA	12	1.5	18	Acquire and review utility markups, contact forms, and assist UAO's with any documentation needed to achieve prepaeration of the final package in timely manor.
7.11	Utility Coordination/Followup	LA	12	1.5	18	Follow-up and finalize all greenline markups and assocaited contact forms.
7.12	Utility Constructability Review	LA	0	0	0	Not Applicable for this project.
7.13	Additional Utility Services	LA	0	0	0	Not Applicable for this project.

Project Activity 7: Utilities

7.14	Processing Utility Work by Highway Contractor (UWHC)	LA	2	8	16	Manholes, Meters, and Valves will most likley be impacted during mill and resurfacing as well as potential WM and FM conflicts requiring relocation. Great Potential for UAO's to enter in to UWHCA. Assist with UWHCAs between UAO and COJ
7.15	Contract Plans to UAO(s)	LA	0	0	0	Not Applicable for this project.
7.16	Certification/Close-Out	LA	14	1	14	Prepare Final Pacakge for passing along to DB Teams
7.17	Other Utilities	LA	1	21	21	Clerical/Admin for monthly financial closeout and invoicing - 1.5 Hr per month (18Hrs) Branch Manager/Director, QA-QC Support - (3Hrs)
				7. Utilities Total	**154**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff (see 7.1)	EA	0	0	0			0
Preliminary Meeting (see 7.5)	EA	0	0	0			0
Individual UAO Meetings (see 7.6)	EA	0	0	0			0
Field Meetings (see 7.6)	EA	0	0	0			0
Design Meeting (see 7.9)	EA	0	0	0			0
Other Meetings *(this is automatically added into Utilities Total (cell F27))*	EA	0	0	0			0
Total Meetings				**0**	**Total Project Manager Meetings (carries to Tab 3)**		**0**

Carries to Tab 3

FOR INFORMATION ONLY - DO NOT SUBMIT WITH YOUR PROPOSAL

Form 1 - SCHEDULE OF PROPOSED PRICES/RATES

NAME OF CONSULTANT CSI Geo, Inc.

Proposal Number P-11-18 Hart Bridge Modification D-B DCP/RFP

1. Average hourly direct labor rates (without Fringe Benefits)

Project Manager (Responsible Professional)	$ 67.23 hr.
Design Engineer or Architect (Registered)	$ 43.35 hr.
Designer or Technician (Non-Registered)	$ 43.32 hr.
Drafter or CADD Operator	$ 32.51 hr.
Field Inspector	$ 25.50 hr.
Clerical (Typist, Word Processor, Document Assembly, etc.)	$ 15.00 hr.

2. Total Overhead Rate (to be applied to Direct Labor:) 175 %

3. Profit Rate (to be applied to Direct Labor plus Overhead) 10 %

4. Cost of 4-man survey crew per 8 hour day (If applicable) $ _____ hr.

4. Other Direct Project Costs per Unit (please specify)

Please see attachments.

6. Estimated percentage of total fee to be performed by subconsultants _____ %

7. Please provide any other relevant rates that may apply to this project including average direct hourly labor rates for other categories of proposed personnel

Please see attachments.

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Hart Bridge Modification D-B DCP/RFP	2. Proposal Number P-11-18
3. Name of Consultant CSI Geo, Inc.	4. Date of Proposal 5/15/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$67.23	20	$1,344.60	
Project Engineer	$43.35	75	$3,251.25	
Staff Engineer	$43.32	99	$4,288.68	
CADD/Computer Tech	$32.51	99	$3,218.49	
Geotechnical Technician	$25.50	75	$1,912.50	
Clerical	$15.00	29	$435.00	
		0	$0.00	
		0	$0.00	
		0	$0.00	
		0	$0.00	
		0	$0.00	
		0	$0.00	
TOTAL DIRECT LABOR		397	Hours	$14,450.52
6. Overhead (Combined Fringe Benefit & Administrative)			175%	$25,288.41
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$39,738.93
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$3,973.89

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs		
	$	
	$	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$0.00
10. SUBCONTRACTS (Lump Sum)		
	$	
	$	
SUB-CONTRACT SUB-TOTAL		$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$43,712.82
11. REIMBURSABLE COSTS (Limiting Amount)		
Geotechnical Investigation	$ 81,866.50	
	$ 0.00	
	$ 0.00	
	$ 0.00	
SUB-TOTAL REIMBURSABLES		$81,866.50

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$125,579.32**

EXHIBIT G

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May 15, 2018

Mr. Keith Jackson, P.E.
STV
5200 Belfort Road, Suite 400
Jacksonville, FL 32256

Re: Hart Bridge Modification D-B DCP/RFP
P-11-18
Duval County, Florida

Dear Mr. Jackson:

Attached please find our geotechnical scope of work, fee estimate, fee summary, staff hour back up, schedule of prices, loaded manhour rates and our published fee schedule. Our geotechnical services are estimated to cost $125,579.32

We appreciate your selection of CSI Geo, Inc. for these services and look forward to serving you as your geotechnical consultant on this and other future projects. If you have any questions, please do not hesitate to call.

Sincerely,

CSI Geo, Inc.

Bruce Khosrozadeh

Bruce Khosrozadeh, P.E.
Senior Vice President

CSI Geo, Inc.
2394 St. Johns Bluff Road S, #200 • Jacksonville, Florida 32246 • (904) 641-1993 • Fax 645-0057

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GEOTECHNICAL PROJECT APPROACH
P-11-18 Harts Expressway Modifications
Duval County, Florida

SCOPE OF PROPOSED GEOTECHNICAL SERVICES

The geotechnical exploration will consist of field exploratory borings, laboratory testing, and a presentation of the collected data.

PROPOSED GEOTECHNICAL EXPLORATION

Field Exploration - The proposed exploration will consist of collection of subsurface data as follows:

Roadway Widening- Auger borings will be performed along the widening areas to a depth of 5 feet on one hundred feet spacing with 20 foot deep auger borings every 500 feet. Pavement cores with base depth checks will also be conducted on the existing pavement at a frequency of two cores per lane. Soil samples for laboratory soil testing will be obtained on a frequency of three samples per stratum per mile. Soil samples for pipe corrosion testing will be obtained on a frequency of one sample per 1,500 feet of alignment. Additionally, sufficient number of samples will be collected from the existing subgrade soils and tested to determine the design LBR value. Work will also include review of the encountered ground water levels and estimation of the seasonal high ground water levels.

Pond - The proposed stormwater management pond will be explored by means of Standard Penetration Test (SPT) borings with continuous sampling which will extend to a depth of 20 feet at a frequency of three borings per one acre of stormwater pond. In addition, the pond will be tested for environmental classification testing. Sufficient testing will be performed on soils recovered from the pond for classification purposes. All borings will be grouted upon completion.

Retaining Walls - SPT borings will be taken at 150 feet intervals in each direction of travel along the proposed walls. These borings will be extended a minimum of twice the wall height or at least 10 feet into competent material. Undisturbed samples of cohesive soils will also be obtained. Representative soil samples from these areas will be tested for consolidation and environmental classification purposes. Sufficient testing will be performed on soils recovered from the wall areas for classification purposes. All borings will be grouted upon completion.

Bridges - The proposed bridges will be explored by means of SPT borings at each bent to approximately 100 feet deep each. All SPT borings will be sampled on 2.5-foot centers. Undisturbed samples of cohesive soils will be obtained. Representative soil samples from the borings will be tested for environmental classification purposes. Sufficient testing will be performed on soils recovered from the borings for classification purposes. All borings will be grouted upon completion.

Soil samples will be classified, containerized, and marked in the field and returned to the laboratory for visual inspection and classification by the geotechnical engineer using the AASHTO and the Unified Soil Classification Systems.

Laboratory Testing - Routine laboratory testing will be conducted on representative soil samples to determine classification, and aggressiveness. Laboratory classification and index soil tests will be performed as necessary on selected soil samples obtained from the exploration. Specific tests to be performed are Moisture Content, Organic Content, Percent Fines, Gradation Tests, Atterberg Limits, Environmental/Corrosion Testing, Unconfined Compressive Strength of Intact Rock Cores, Consolidation, and LBR tests.

Engineering/Support Services - A geotechnical engineer, registered in the State of Florida, will direct the geotechnical exploration and provide a presentation of the site and subsurface conditions with respect to the planned construction. The results of the exploration will be presented in data reports containing the following:

- A brief discussion of the planned construction.
- A graphical representation of the subsurface conditions encountered as well as the existing on-site conditions, such as topography, surface vegetation, encountered and seasonal high-water tables, etc., as they relate to the planned construction.
- Copies of U.S.G.S. and S.C.S. maps with project limits shown.
- A report of tests sheet that summarizes the laboratory test results, and the soil stratification (i.e. soils grouped into layers of similar materials).
- An appendix that contains stratified soil boring profiles, and laboratory test data sheets.
- Design LBR.
- Pavement system thicknesses.
- Written discussion of the subsurface conditions encountered.

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Geotechnical Cost Estimate
Hart Bridge Modification D-B DCP/RFP
P-11-18
Duval County, Florida

2394 St. Johns Bluff Road, Ste 200
Jacksonville, Florida 32246
tel (904) 641-1993
fax (904) 645-0057

Geotechnical Item	Unit	Number of Units	Cost / Unit	Estimated Cost
Field Investigation				
Crew & Equipment Mobilization / Demobilization:				
Mobilization - Truck Rig	ea.	3	$550.00 /ea.	$1,650.00
Pavement Coring Equip Mobilization	ea.	1	$400.00 /ea.	$400.00
Roadway Widening:				
31 Auger Borings @ 5' ea.	lin. ft.	155	$10.50 /lin. ft.	$1,627.50
8 Auger Borings @ 20' ea.	lin. ft.	160	$10.50 /lin. ft.	$1,680.00
10 Pavement Cores with Base Depth Check	ea.	10.0	$125.00 /ea.	$1,250.00
MOT	day	1.0	$1,150.00 /day	$1,150.00
Pond (1 @ 3 acres):				
9 SPT Borings (continuous sampling) @ 20' ea.:	lin. ft.	180	$13.50 /lin. ft.	$2,430.00
Extra Split Spoon Sample	ea.	27	$31.00 /ea.	$837.00
Grouting	lin. ft.	180	$6.00 /lin. ft.	$1,080.00
Walls (1 @ 800', 1 @ 850', 1 @ 450', 1 @ 425'):				
18 SPT Borings (4 @ 60', 2 @ 50', 4 @ 40', 2 @ 30', 4 @ 20', 2 @ 10'):				
0-50'	lin. ft.	620	$13.50 /lin. ft.	$8,370.00
50'-100'	lin. ft.	40	$15.50 /lin. ft.	$620.00
3" Casing to Stabilize Borehole	lin. ft.	320	$9.00 /lin. ft.	$2,880.00
Undisturbed Sample-Thin wall Shelby tube	ea.	9	$140.00 /ea.	$1,260.00
Grout Boreholes				
0-50'	lin. ft.	620	$6.00 /lin. ft.	$3,720.00
50'-100'	lin. ft.	40	$7.00 /lin. ft.	$280.00
MOT	day	0.5	$1,150.00 /day	$575.00
Bridges (6 Bents):				
6 SPT/Rock Cores @ 100' ea.:				
0-50' SPT	lin. ft.	240	$13.50 /lin. ft.	$3,240.00
0-50' Rock Coring	lin. ft.	60	$43.00 /lin. ft.	$2,580.00
50'-100' SPT	lin. ft.	300	$15.50 /lin. ft.	$4,650.00
Extra Split Spoon Sample				
0-50'	ea.	48	$31.00 /ea.	$1,488.00
50'-100'	ea.	60	$34.50 /ea.	$2,070.00
3" Casing to Stabilize Borehole	lin. ft.	240	$9.00 /lin. ft.	$2,160.00
Undisturbed Sample-Thin wall Shelby tube	ea.	4	$140.00 /ea.	$560.00
Grout Boreholes				
0-50'	lin. ft.	300	$6.00 /lin. ft.	$1,800.00
50'-100'	lin. ft.	300	$7.00 /lin. ft.	$2,100.00
MOT	day	1	$1,150.00 /day	$1,150.00
	Subtotal:			**$51,607.50**

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Geotechnical Cost Estimate
Hart Bridge Modification D-B DCP/RFP
P-11-18
Duval County, Florida

2394 St. Johns Bluff Road, Ste 200
Jacksonville, Florida 32246
tel (904) 641-1993
fax (904) 645-0057

Geotechnical Item	Unit	Number of Units	Cost / Unit	Estimated Cost
Laboratory Testing				
Moisture Content of Soils	ea.	97	$21.00 /ea.	$2,037.00
Organic Content in Soils	ea.	97	$37.00 /ea.	$3,589.00
Material Finer Than No. 200 Sieve	ea.	97	$35.00 /ea.	$3,395.00
Grain Size Analysis	ea.	16	$67.00 /ea.	$1,072.00
Plastic limit of soil	ea.	49	$49.00 /ea.	$2,401.00
Liquid limit of soil	ea.	49	$50.00 /ea.	$2,450.00
Corrosion Series Test - (Environmental Corrosion)	ea.	24	$225.00 /ea.	$5,400.00
Unconfined Compressive Strength of Intact Rock Cores	ea.	12	$145.00 /ea.	$1,740.00
Consolidation	ea.	13	$500.00 /ea.	$6,500.00
LBR	ea.	5	$335.00 /ea.	$1,675.00
	Subtotal:			**$30,259.00**
Geotechnical Investigation Total (Field Investigation & Laboratory Testing):				**$81,866.50**
Engineering/Support Services				
Project Manager	hr.	20	$67.23 /hr.	$1,344.60
Project Engineer	hr.	75	$43.35 /hr.	$3,251.25
Staff Engineer	hr.	99	$43.32 /hr.	$4,288.68
CADD/Computer Technician	hr.	99	$32.51 /hr.	$3,218.49
Geotechnical Technician	hr.	75	$25.50 /hr.	$1,912.50
Secretary/Clerical	hr.	29	$15.00 /hr.	$435.00
	TOTAL DIRECT LABOR:			$14,450.52
	OVERHEAD:		175%	$25,288.41
	SUBTOTAL: Labor + Overhead			$39,738.93
	PROFIT: Labor Related Costs:		10%	$3,973.89
Engineering/Support Services (Labor + Overhead + Profit):				**$43,712.82**

GRAND TOTAL ESTIMATED FEE: **$125,579.32**

* See Project Activity 35, for detailed man hours

35. Geotechnical

Estimator:

Hart Bridge Modification D-B DCP/RFP

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/ Unit	Total Hours	Comments
	Roadway					
35.1	Document Collection and Review	LS	1	4	4	
35.2	Develop Detailed Boring Location Plan	LS	1	4	4	Roadway: 31 Auger Borings @ 5' ea., and 8 Auger Borings @ 20' ea. Pond: 9 SPT Borings @ 20' ea. Total: 48 Borings, 495'
35.3	Stake Borings/Utility Clearance	Boring	48	0.5	24	48
35.4	Muck Probing	Crew Day	0	0	0	
35.5	Coordinate and Develop MOT Plans for Field Investigation	EA	1	4	4	
35.6	Drilling Access Permits	Location	0	4	0	
35.7	Property Clearances	EA	1	4	4	
35.8	Groundwater Monitoring	EA	0	0	0	
35.9	LBR Sampling	EA	1	8	8	5 LBR samples will be collected from the existing subgrade, and tested in the laboratory for LBR values
35.10	Coordination of Field Work	100 lf of boring	4.95	1	5	495
35.11	Soil and Rock Classification - Roadway	100 lf of boring	4.95	1	5	
35.12	Design LBR	LS	1	2	2	A Design LBR will be recommended for pavement design in a separate report based on the results of the LBR tests and following FDOT guidelines
35.13	Laboratory Data	100 lf of boring	4.95	1	5	
35.14	Seasonal High Water Table	Boring	48	0.1	5	
35.15	Parameters for Water Retention Areas	EA	0	1	0	NA- Design Build
35.16	Delineate Limits of Unsuitable Material	Cross-section	0	10	0	NA- Design Build
35.17	Electronic Files for Cross-Sections	100 lf of boring	0	1	0	NA- Design Build
35.18	Embankment Settlement and Stability	Embankment Boring	0	2	0	NA- Design Build
35.19	Monitor Existing Structures	LS	0	10	0	NA- Design Build

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.20	Stormwater Volume Recovery and/or Background Seepage Analysis	EA	0	0	0	NA- Design Build
35.21	Geotechnical Recommendations	LS	0	15	0	NA- Design Build
35.22	Pavement Condition Survey and Pavement Evaluation Report	LS	0	0	0	Only Pavement cores will be performed and the thickness of the asphalt and the limerock base will be reported
35.23	Preliminary Roadway Report	LS	1	25	25	Data Report
35.24	Final Report	EA	1	25	25	Data Report
35.25	Auger Boring Drafting	100 lf boring	3.15	3	9	315
35.26	SPT Boring Drafting	100 lf boring	1.8	4	7	180
			Roadway Geotechnical Subtotal		**136**	
	Structures					
35.27	Develop Detailed Boring Location Plan	LS	1	2	2	Walls: 18 SPT Borings, 660' Bridge Bents: 6 SPT/Rock Cores, 600' Total: 24 Borings, 1260'
35.28	Stake Borings/Utility Clearance	Boring	24	0.5	12	24
35.29	Coordinate and Develop MOT Plans for Field Investigation	EA	1	4	4	
35.30	Drilling Access Permits	Location	0	4	0	
35.31	Property Clearances	EA	1	8	8	
35.32	Collection of Corrosion Samples	EA	0	2	0	
35.33	Coordination of Field Work	100 lf of boring	12.6	1	13	1260
35.34	Soil and Rock Classification - Structures	100 lf of boring	12.6	1	13	
35.35	Tabulation of Laboratory Data	100 lf of boring	12.6	1	13	
35.36	Estimate Design Groundwater Level for Structures	EA	24	0.2	5	
35.37	Selection of Foundation Alternatives (BDR)	Bridge boring	0	3	0	NA- Design Build
35.38	Detailed Analysis of Selected Foundation Alternate(s)	Bridge boring	0	3	0	NA- Design Build
35.39	Bridge Construction and Testing Recommendations	Bridge boring	0	2	0	NA- Design Build
35.40	Lateral Load Analysis (Optional)	Bridge boring	0	0	0	NA- Design Build
35.41	Walls	Wall Boring	0	2	0	NA- Design Build
35.42	Sheet Pile Wall Analysis (Optional)	Wall Boring	0	2	0	NA- Design Build

35. Geotechnical

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
35.43	Design Soil Parameters for Signs, Signals, High Mast Lights, and Strain Poles and Geotechnical Recommendations	Boring	0	1	0	NA- Design Build
35.44	Box Culvert Analysis	EA	0	4	0	NA- Design Build
35.45	Preliminary Report	EA	2	35	70	Data Report
35.46	Final Report	EA	1	25	25	Data Report
35.47	Final Reports - Signs, Signals, Box Culvert, Walls and High Mast Lights	EA	0	35	0	
35.48	SPT Boring Drafting	100 lf of boring	12.6	4	50	1260
35.49	Other Geotechnical	LS	0	20	0	
				Structural Geotechnical Subtotal	**215**	
				Geotechnical Technical Subtotal	**351**	
35.50	Technical Special Provisions and Modified Special Provisions	EA	0	0	0	NA- Design Build
35.51	Field Reviews	LS	2	4	8	
35.52	Technical Meetings	LS	1	4	4	Meetings listed below
35.53	Quality Assurance/Quality Control	LS	%	3%	11	
35.54	Supervision	LS	%	3%	11	
				Geotechnical Nontechnical Subtotal	**34**	
35.55	Coordination	LS	%	3%	12	
				35. Geotechnical Total	**397**	

Technical Meetings	Units	No of Units	Hours/ Unit	Total Hours	Comments	PM Attendance at Meeting Required?	Number
Kickoff Meeting with FDOT	EA	0	0	0			0
Boring Layout Approval	EA	0	2	0			0
Attend in BDR Review Meeting	EA	0	0	0			0
30/60/90% Submittal Review	EA	0	2	0			0
Other Meetings	EA	2	2	4			0
Subtotal Technical Meetings				**4**		**Subtotal Project Manager Meetings**	0
Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		- -
Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		- -
Total Meetings				**4**		**Total Project Manager Meetings (carries to Tab 3)**	**0**

Carries to 33.18

Carries to Tab 3

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Hart Bridge Modification D-B DCP/RFP	2. Proposal Number P-11-18
3. Name of Consultant DRMP, Inc.	4. Date of Proposal 7/13/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor Add/Delete Classifications as needed.	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Senior (PSM)	$60.58	28	$1,696.24	
Project (PSM)	$48.08	171	$8,221.68	
Survey Tech	$36.06	356	$12,837.36	
Secretary/Clerical	$22.54	14	$315.56	
3-man Survey Crew	$55.34	750	$41,505.00	
2-Man Designate SUE Crew	$50.91	410	$20,873.10	
3-Man Vacuum SUE Crew	$74.55	40	$2,981.80	
TOTAL DIRECT LABOR		1,769	Hours	$88,430.74
6. Overhead (Combined Fringe Benefit & Administrative)			150%	132646.11
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$221,076.85
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$22,107.69

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs		
	$	
	$	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$0.00
10. SUBCONTRACTS (Lump Sum)		
	$	
	$	
SUB-CONTRACT SUB-TOTAL		$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$243,184.54
11. REIMBURSABLE COSTS (Limiting Amount)		
	$ 0.00	
	$ 0.00	
	$ 0.00	
	$ 0.00	
SUB-TOTAL REIMBURSABLES		$0.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$243,184.54**

EXHIBIT G

FOR INFORMATION ONLY - DO NOT SUBMIT WITH YOUR PROPOSAL

Form 1 - SCHEDULE OF PROPOSED PRICES/RATES

NAME OF CONSULTANT: DRMP, INC.

Proposal Number: _____

1. Average hourly direct labor rates (without Fringe Benefits)

Project Manager (Responsible Professional)	$48.08 hr.
Design Engineer or Architect (Registered)	$_____hr.
Designer or Technician (Non-Registered)	$36.06 hr.
Drafter or CADD Operator	$30.43 hr.
Field Inspector	$_____hr.
Clerical (Typist, Word Processor, Document Assembly, etc.)	$22.54 hr.

2.	Total Overhead Rate (to be applied to Direct Labor:)	150.00%
3.	Profit Rate (to be applied to Direct Labor plus Overhead)	10.00%
4.	Cost of 4-man survey crew per 8 hour day (If applicable)	$68.17 hr.

4. Other Direct Project Costs per Unit (please specify)

Subsurface Utility Engineering - 2 Man Designate $140, 3-Man Vacuum Crew $205, 4-Man Vacuum Crew $240, SUE Project Manager $135.

6. Estimated percentage of total fee to be performed by sub-consultants: 0%

7. Please provide any other relevant rates that may apply to this project including average direct hourly labor rates for other categories of proposed personnel

Party Chief $26.63, Instrument Man $15.88, Rodman $12.83, Field Supervisor $36.06, Principal (Partner or Senior Officer) $60.58.

CITY OF JACKSONVILLE, FLORIDA
Hart Bridge Modification D-B DCP/RFP
DRMP, Inc.

Survey & Subsurface Utility Engineering

Scope of Services

1. **HORIZONTAL CONTROL:** Establish horizontal control for project. Control will be referenced to NAD83/2011 and will be established per FDOT D2 and COJ guidelines utilizing Static and RTK GPS methods. This task includes control on both Gator Bowl level and Hart Expressway level. Additional secondary control for control map support is also need for 8-10 parcels-blocks within the project limits.
2. **VERTICAL CONTROL:** Establish vertical control for project. Control will be referenced to NAVD88 and will be establish per FDOT D2 and COJ guidelines utilizing conventional leveling methods. This task includes control on both Gator Bowl level and Hart Expressway level.
3. **MAINLINE ALIGNMENT & RW LINES:** Establish Right Of Way and Alignment from existing FDOT / JEA R/W maps for Commodore Point Expressway - Bridge (Project No. 72090-3512) and additional City of Jacksonville R/W maps for Gator Bowl Blvd.
4. **SIDE STREETS ALIGNMENT & RW LINES:** Locate and recover R/W for City Side streets to include Bay St, Bryan St, Talleyrand Ave, Adams St. E., Festival Park Ave, Gator Bowl Blvd, Georgia St, A. Philip Randolph Blvd, Lafayette St, Monroe St, Palmetto St, Duval St. E., and Marsh St.
5. **BASELINE REFERENCE POINTS:** Set up to 12 sets of Reference Points for Primary Baseline of Survey for Hart Expressway. Set Primary Baseline of survey for Gator Bowl Blvd. (Up to 7 additional sets of references).
6. **TOPOGRAPHIC 3D DTM:** Provide 3D topographic of the project. Limits are approximately 100' north of the existing back of walk, north side Gator Bowl, to 100' south of the existing back of walk, south side service road south of elevated road. Survey will include elevations and features on the top side of the elevated Hart Expressway and features along route at grade. Survey will also include the location of the buried gantry crane rails in Lot J and across the roadway.

   LIMITS:
   - Gator Blvd from 50' west of Hogans Creek bridge to 200' north of Talleyrand Ave (4,425').
   - Hart Expressway at grade (under elevated roadway to southerly limits) from E. Adams Street to proposed connection at Bryan Street (4,600').
   - Hart Expressway 500' west of proposed connection at A.P. Randolph and 500' east of the proposed connection at Bryan Street (1,000').
   - A.P. Randolph Street, from 150' north of the centerline intersection Bay to 400' south of the centerline intersection (550').
   - Portion at grade along north side of Hart Expressway from Gator Bowl to Bryan Street (1,600').
7. **SUBSURFACE UTILITY ENGINEERING:** Designate underground utilities along project route. One Call list 13 owners. This estimate anticipates we will need to locate 22 utility line for a total of 133,250'. We will also locate the beginning of the JEA directional drill lines and show the portions to deep to locate per JEA records.

LIMITS:

- Gator Blvd from 50' west of Hogans Creek bridge to 200' north of Talleyrand Ave (4,425').
- Hart Expressway at grade (under elevated roadway to southerly limits) from E. Adams Street to proposed connection at Bryan Street (4,600').
- Hart Expressway 500' west of proposed connection at A.P. Randolph and 500' east of the proposed connection at Bryan Street (1,000').
- A.P. Randolph Street, from 150' north of the centerline intersection Bay to 400' south of the centerline intersection (550').
- Portion at grade along north side of Hart Expressway from Gator Bowl to Bryan Street (1,600').

8. **SOFT DIG (VVH'S):** The estimate assumes 16 VVHs to cleared conflicts for new structures locate bridge foundations and verify utility depth to support the design team.
9. **DRAINAGE SURVEY:** Locate and obtain top and invert elevations of storm and sanitary manhole structures. Information to include, invert elevation, pipe size, pipe material. This task includes locating pipe outfalls in to the river.
10. **MOT:** MOT as required, additional time has been included for MOT lane closures on the Hart Expressway (12 days).

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Hart Bridge Modification D-B DCP/RFP	2. Proposal Number P-11-18
3. Name of Consultant Environmental Resouce Solutions, Inc	4. Date of Proposal 5/14/2018

PART II - LABOR RELATED COSTS

5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal / Project Manager	$62.66	8	$501.28	
Sr. Environmental Scientist	$52.00	20	$1,040.00	
Environmental Scientist I	$42.43	0	$0.00	
Environmental Scientist II	$39.00	0	$0.00	
Environmental Scientist III	$33.65	0	$0.00	
Environmental Scientist IV	$31.63	50	$1,581.50	
Environmental Specialist	$25.48	0	$0.00	
GIS Specialist	$28.61	16	$457.76	
Environmental Technician I	$22.88	0	$0.00	
Environmental Technician II	$19.00	0	$0.00	
Environvironmental Technician	$16.35	20	$327.00	
TOTAL DIRECT LABOR		114	Hours	$3,907.54
6. Overhead (Combined Fringe Benefit & Administrative)			175%	$6,838.20
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$10,745.74
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$1,074.57

PART III - OTHER COSTS

9. Miscellaneous Direct Costs		
	$	
	$	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$0.00
10. SUBCONTRACTS (Lump Sum)		
	$	
	$	
SUB-CONTRACT SUB-TOTAL		$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$11,820.31
11. REIMBURSABLE COSTS (Limiting Amount)		
	$ 0.00	
	$ 0.00	
	$ 0.00	
	$ 0.00	
SUB-TOTAL REIMBURSABLES		$0.00

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$11,820.31**

EXHIBIT G

8711 Perimeter Park Blvd, Suite 1
Jacksonville, FL 32216

NAME OF CONSULTANT Environmental Resource Solutions, Inc.

Proposal Number P-11-18 Hart Bridge Modification D-B DCP/RFP

SCHEDULE OF PROPOSED RATES

1. Average hourly direct labor rates (without Fringe Benefits)

Principal/Project Manager (Responsible Professional)	$ 62.66 hr.
Sr. Environmental Scientist	$ 52.00 hr.
Environmental Scientist I	$ 42.43 hr.
Environmental Scientist II	$ 39.00 hr.
Environmental Scientist III	$ 33.65 hr.
Environmental Scientist IV	$ 31.63 hr.
GIS Specialist	$ 28.61 hr.
Environmental Specialist	$ 25.48 hr.
Environmental Technician I	$ 22.88 hr.
Environmental Technician II	$ 19.00 hr.
Environmental Technician III	$ 16.35 hr.
Clerical (Typist, Word Processor, Document Assembly, etc.)	$ 18.60 hr.

2. Total Overhead Rate (to be applied to Direct Labor:) **175** %
3. Profit Rate (to be applied to Direct Labor plus Overhead) **10.00** %
4. Cost of 4-man survey crew per 8 hour day (If applicable) $ **N.A.**
5. Other Direct Costs per Unit (please specify) mileage $0.545 / mile
6. Estimated percentage of total fee to be performed by subconsultants _____ %
7. Please provide any other relevant rates that may apply to this project including average direct hourly labor rates for other categories of proposed personnel

_____

_____

Hart Bridge Modification
P-11-18
Duval County, FL

Scope:

Environmental Resource Solutions, Inc. (ERS) will assist the City of Jacksonville (COJ) and STV in the completion of field surveys and relevant documentation for inclusion in a Natural Resource Evaluation (NRE) that provides an assessment of potential impacts to jurisdictional wetlands and/or surface waters, tidal freshwater essential fish habitat (EFH), and both state and federally-listed plants, fish and wildlife species for the proposed Hart Bridge Modification. All vegetative communities will be mapped within each alternative footprint and impacts to protected resources will be estimated. A draft functional assessment using Uniform Mitigation Assessment Method (UMAM) will be completed for estimated wetland impacts per alternative and per wetland community type.

ERS will perform the following sub-tasks towards the developments of each primary alternative and the final recommended alternative:

1. Conduct full wildlife database search and desktop evaluation of each proposed alternative to determine the approximate extent of wetland and surface water resources.
2. Utilize existing aerial photographs and LIDAR data to estimate the extent of jurisdictional wetlands and surface waters.
3. Conduct preliminary flora and fauna surveys within each alternative to determine whether the habitats support, or have the potential to support federally-listed species.
4. Evaluate the project for potential impacts to tidal freshwater EFH.
5. Prepare a Natural Resource Evaluation report that will include a wetland evaluation [per FDOT PD&E Manual Part 2, Chapter 9 (2017)], listed species evaluation [per FDOT PD&E Manual Part 2, Chapter 16: Protected Species and Habitat (2017)], and evaluation of EFH [per FDOT PD&E Manual Part 2, Chapter 17 (2017)].

Schedule:

The draft NRE will be submitted within 30 days of receipt of final alternatives for evaluation.

Staff Hours/Fee

Total Hours: 114
Total Fee: $11,820.31 (see attached fee sheet for details)

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Hart Bridge Modification D-B DCP/RFP	2. Proposal Number P-11-18
3. Name of Consultant Name Meskel & Associates Engineering	4. Date of Proposal Date 5/15/18

PART II - LABOR RELATED COSTS

5. Direct Labor Add/Delete Classifications as needed.	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$48.00	6	$288.00	
Project Manager	$44.43	16	$710.88	
Senior Geologist	$40.87	24	$980.88	
Project Engineer	$33.50	20	$670.00	
Staff Engineer	$28.50	80	$2,280.00	
Field Technician	$22.00	40	$880.00	
CADD/Computer Tech	$20.00	12	$240.00	
Secretary/Clerical	$17.00	8	$136.00	
Senior Tech Aide		0	$0.00	
Technician Aide		0	$0.00	
TOTAL DIRECT LABOR		206	Hours	$6,185.76
6. Overhead (Combined Fringe Benefit & Administrative)			200%	$12,371.52
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$18,557.28
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$1,855.73

PART III - OTHER COSTS

9. Miscellaneous Direct Costs			
Organic Vapor Analyzer Rental	$	750.00	
Truck	$	1,200.00	
Environmental Data Base Search	$	500.00	
	$		
MISCELLANEOUS DIRECT COSTS SUB-TOTAL			$2,450.00
10. SUBCONTRACTS (Lump Sum)			
Asbestos and Coating Surveys	$	7,000.00	
	$		
SUB-CONTRACT SUB-TOTAL			$7,000.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)			$29,863.01
11. REIMBURSABLE COSTS (Limiting Amount)			
	$		
	$		
	$	0.00	
	$	0.00	
SUB-TOTAL REIMBURSABLES			$0.00

PART IV - SUMMARY

TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$29,863.01**

EXHIBIT G

SCHEDULE OF PROPOSED RATES

NAME OF CONSULTANT Meskel & Associates Engineering

Proposal Number P-11-18

Hourly Billing Rates

Principal Engineer (Registered)	$ 144.00 hr.
Project Manager (Responsible Professional)	$ 133.29 hr.
Senior Geologist (Registered)	$ 122.61 hr.
Project Engineer (Registered)	$ 100.50 hr.
Staff Engineer (Non-Registered)	$ 85.50 hr.
Field Technician	$ 66.00 hr.
Drafter or CADD Operator	$ 60.00 hr.
Clerical (Typist, Word Processor, Document Assembly, etc.)	$ 51.00 hr.

June 21, 2018

Meskel & Associates Engineering
Geotechnical • Environmental • Inspection • Testing

Mr. J. Keith Jackson, P.E.
STV, Inc.
5200 Belfort Road, Suite 400
Jacksonville, Florida

Subject: Scope of Work for Level I
Contamination Screening Evaluation
Hart Bridge Modification
Jacksonville, Florida
MAE Proposal No. 002718

Dear Mr. Jackson:

Meskel & Associates Engineering, PLLC (MAE) is pleased to present this proposed scope of work to provide a contamination screening evaluation, asbestos containing material survey, and metal-based coating survey for the subject project.

Level I Contamination Screening Evaluation

The purpose of a contamination screening evaluation for the proposed modification is to identify and evaluate known or potential contamination problems, present recommendations concerning these problems, and discusses possible impacts to the proposed project.

Land use is an important factor when evaluating historical and current environmental conditions. Evaluating the past use of properties can assist in determining possible chemical constituents that may have been used or associated with a parcel. Current land use records, typically supplied by the local county or municipality, also provide additional information regarding target areas for potential contaminants.

The methodology for this contamination screening evaluation includes the following tasks:

- Document review using Duval County Property Appraiser's website.
- A regulatory review of governmental databases for permits, known contaminated sites and or violations associated with environmental issues.
- Obtaining and evaluating historical aerial photographs, topographic maps and soil to determine potential contamination problem areas.
- Conduct site visits to verify information provided and to identify other potential concerns within the vicinity of the project.
- Contamination screening of soils above and into the water table during the geotechnical subsurface exploration. During the geotechnical drilling MAE will screen soil samples visually, olfactory and with an Organic Vapor Analyzer for indications of contamination.

- Determine the contamination potential and assigning a risk rating for each property within the proposed project limits.

After gathering and reviewing readily available public information and conducting site reconnaissance, contamination risk ratings will be assigned to sites of potential concern. The rating system is divided into four categories of risk as defined by the FDOT. These four degrees of risk are "No", "Low", "Medium" and "High." This system expresses the degree of concern for potential contamination problems.

No Risk Site: A review of all available information finds there is nothing to indicate contamination would be a problem. It is possible that contaminants were handled on the property; however, all information (DEP reports, monitoring wells, water and soil samples, etc.) indicate that contamination problems should not be expected.

Low Risk Site: The former or current operation has a hazardous waste generator identification (ID) number, or deals with hazardous materials; however, based on all available information, there is no reason to believe there would be any involvement with contamination in relation to this project. This is the lowest possible rating a gasoline station operating within current regulations can receive.

Medium Risk Site: After a review of all available information, indications are found (reports, Notice of Violations, consent orders, etc.) that identify known soil and/or water contamination and that the problem does not need remediation, is being remediated (i.e., air stripping of the groundwater, etc.), or that continued monitoring is required. The complete details of remediation requirements are important to determine what must be done if the property were to be acquired. A recommendation should be made on each property falling into this category regarding the potential impacts to the proposed project and the possible alternatives if there is a need to avoid the property.

High Risk Site: After a review of all available information, there is a potential for contamination problems. Further assessment will be required after alignment selection to determine the actual presence and/or levels of contamination and the need for remedial action. The recommendation for this rating should include a listing of the parameters of concern and media to be assessed, and if known, what construction activities will occur within or adjacent to the contaminated media.

After the contamination evaluation screening is completed, properties identified as having a "Medium" or "High" ranking, may require further assessment to verify or determine the extent of contamination concerns depending upon the proposed construction. The contamination evaluation screening may have to be reviewed and revised based on changes during the design phase.

Asbestos Containing Materials (ACM) and Metal Based Coatings (MBC)

If an ACM or MBC survey has not been previously conducted, FDOT requires that a survey be performed on all bridges and other structures prior to demolition and any required abatement performed prior to construction. These surveys are typically performed early in the design phase to allow for an evaluation of the impacts prior to construction.

The survey will include the collection of samples for analyses of metals in paint and asbestos containing materials. The survey is intended to identify the presence of ACMs and MBCs from 'suspected' or likely sources of those items based on the professional judgment of the licensed inspector.

The scope of work for the ACM survey will include the collection of bulk samples of suspect materials for analysis by Polarized Light Microscopy (PLM). Point count analysis is usually completed on friable samples with less than 10 percent asbestos as determined by the PLM analysis. The homogenous sampling areas will be described with detailed descriptions in a summary report which will provide recommendations for asbestos abatement prior to construction renovation activities, if needed.

The scope of work for the MBC survey will include the collection of bulk samples of suspect materials for analysis by AA/ICP methods for the Target Analyte List 23 or the 13 Priority Pollutant depending on the judgement of the inspector. One bulk sample will be collected from each large suspect homogeneous painted area and from areas that display multiple layering of coatings. The sampling areas will be described with detailed descriptions in a summary report which will provide recommendations for MBC management prior to construction activities.

We appreciate this opportunity to provide this proposed scope of work for your project. If you have any questions concerning this proposal, or if we can serve you in any other way, please contact me.

Sincerely,

MESKEL & ASSOCIATES ENGINEERING, LLC

Scott A. Davidson, P.G.
Director of Environmental Services

Distribution: Mr. J. Keith Jackson, P.E., STV, Inc.

8936 Western Way, Suite 12
Jacksonville, Florida 32256
Phone: (904)519-6990 | Fax: (904)519-6992

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Hart Bridge Modification D-B DCP/RFP	2. Proposal Number P-11-18
3. Name of Consultant Peters and Yaffee, Inc.	4. Date of Proposal 5/15/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$83.86	19	$1,593.34	
Project Manager	$67.20	38	$2,553.60	
Senior Engineer	$66.11	57	$3,768.27	
Project Engineer	$42.40	76	$3,222.40	
Engineering Intern	$30.13	95	$2,862.35	
Designer	$26.20	57	$1,493.40	
Designer -Associate	$17.99	30	$539.70	
Secretary/Clerical	$23.31	8	$186.48	
TOTAL DIRECT LABOR		380	Hours	$16,219.54
6. Overhead (Combined Fringe Benefit & Administrative)			175%	$28,384.20
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$44,603.74
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$4,460.37

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs	$ $ $ $	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$0.00
10. SUBCONTRACTS (Lump Sum)	$ $	
SUB-CONTRACT SUB-TOTAL		$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$49,064.11
11. REIMBURSABLE COSTS (Limiting Amount)	$ 0.00 $ 0.00 $ 0.00 $ 0.00	
SUB-TOTAL REIMBURSABLES		$0.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$49,064.11**

EXHIBIT G

FOR INFORMATION ONLY - DO NOT SUBMIT WITH YOUR PROPOSAL

Form 1 - SCHEDULE OF PROPOSED PRICES/RATES

NAME OF CONSULTANT Peters and Yaffee, Inc.

Proposal Number P-11-18

1. Average hourly direct labor rates (without Fringe Benefits)

Project Manager (Responsible Professional)	$ 67.20 hr.
Design Engineer or Architect (Registered)	$ 42.20 hr.
Designer or Technician (Non-Registered)	$ 26.20 hr.
Drafter or CADD Operator	$ n/a hr.
Field Inspector	$ n/a hr.
Clerical (Typist, Word Processor, Document Assembly, etc.)	$ 23.21 hr.

2. Total Overhead Rate (to be applied to Direct Labor:) 175 %

3. Profit Rate (to be applied to Direct Labor plus Overhead) 10 %

4. Cost of 4-man survey crew per 8 hour day (If applicable) $ n/a hr.

4. Other Direct Project Costs per Unit (please specify)

6. Estimated percentage of total fee to be performed by subconsultants 0 %

7. Please provide any other relevant rates that may apply to this project including average direct hourly labor rates for other categories of proposed personnel

Principal ($ 83.86)

Senior Engineer ($ 66.11)

Engineering Intern ($ 30.13)

Designer Associate ($ 17.99)

Project Activity 19: Signing and Pavement Marking Analysis

Estimator:

Harts Bridge Modification D-B DCP/RFP
P-11--18

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	4	4	Review Existing RFP, Plans, Roll Plots, Typical Sections, Etc.
19.2	No Passing Zone Study	LS	1	0	0	n/a
19.3	Reference and Master Design File	LS	1	98	98	Approximately 5,500 (1.04 miles) of Pavement Marking Design. No plans or labeling will be required. 30 hours setup plus 40 hrs per mile + 2 signals at 8 hrs per signal (40 + (1.04 x 40) + 16 = 98 hrs
19.4	Multi-Post Sign Support Calculations	EA	1	0	0	n/a
19.5	Sign Panel Design Analysis	EA	18	4	72	Assume 18 guide sign panels x 4 hours = 72 hrs
19.6	Sign Lighting/Electrical Calculations	EA	1	0	0	n/a
19.7	Quantities	LS	1	0	0	n/a
19.8	Cost Estimate	LS	1	0	0	n/a
19.9	Technical Special Provisions and Modified Special Provisions	LS	1	0	0	n/a
19.10	Other Signing and Pavement Marking	LS	1	96	96	Preparation of Guide Sign Roll Plot, consultation for Signals and SAPM during procurement and review of Technical Proposals
	Signing and Pavement Marking Analysis Technical Subtotal				**270**	
19.11	Field Reviews	LS	1	16	16	1 Field Review x 2 people x 8 hrs (Exsiting Signage)
19.12	Technical Meetings	LS	1	16	16	Meetings are listed below
19.13	Quality Assurance/Quality Control	LS	%	5%	14	
19.14	Independent Peer Review	LS	%	0%	0	
19.15	Supervision	LS	%	5%	14	
	Signing and Pavement Marking Analysis Nontechnical Subtotal				**60**	
19.16	Coordination	LS	%	3%	10	
	19. Signing and Pavement Marking Analysis Total				**340**	

Project Activity 19: Signing and Pavement Marking Analysis

Task No.	Task	Units	No. of Units	Hours/ Units	Total Hours	Comments		
	Technical Meetings	**Units**	**No of Units**	**Hours/ Unit**	**Total Hours**	**Comments**	**PM Attendance at Meeting Required?**	**Number**
	Sign Panel Design	EA	2	4	8	Meeting with COJ, FDOT, Stadium Rep, Etc		0
	Queue Length Analysis	EA	0	0	0			0
	Local Governments (cities, counties)	EA	0	0	0			0
	Other Meetings	EA	2	4	8			0
	Subtotal Technical Meetings				**16**		**Subtotal Project Manager Meetings**	0
	Progress Meetings (if required by FDOT)	EA	0	0	0	PM attendance at Progress Meetings is manually entered on General Task 3		- -
	Phase Review Meetings	EA	0	0	0	PM attendance at Phase Review Meetings is manually entered on General Task 3		- -
	Total Meetings				**16**		**Total Project Manager Meetings (carries to Tab 3)**	**0**

Carries to 19.12

Carries to Tab 3

Project Activity 20: Signing and Pavement Marking Plans

Estimator:

Harts Bridge Modification D-B DCP/RFP
P-11--18

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	0	0	0	0	n/a
20.2	Summary of Pay Items Including TRNS•Port Input		LS	1	0		0	n/a
20.3	Tabulation of Quantities		Sheet	0	0	0	0	n/a
20.4	General Notes/Pay Item Notes		Sheet	0	0	0	0	n/a
20.5	Project Layout		Sheet	0	0	0	0	n/a
20.6	Plan Sheet		Sheet	0	0	0	0	n/a
20.7	Typical Details		EA	0	0		0	n/a
20.8	Guide Sign Worksheet(s)		EA	18	2		36	Prepartion of Guide Sign Worksheets
20.9	Traffic Monitoring Site		EA	0	0		0	n/a
20.10	Cross Sections		EA	0	0		0	n/a
20.11	Special Service Point Details		EA	0	0		0	n/a
20.12	Special Details		LS	1	0		0	n/a
20.13	Interim Standards		LS	1	0		0	n/a
	Signing and Pavement Marking Plans Technical Subtotal					**0**	**36**	
20.14	Quality Assurance/Quality Control		LS	%	5%		2	
20.15	Supervision		LS	%	5%		2	
	20. Signing and Pavement Marking Plans Total					**0**	**40**	

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Hart Bridge Modification D-B DCP/RFP	2. Proposal Number P-11-18
3. Name of Consultant Pond & Company	4. Date of Proposal 6/21/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Principal	$96.15	4	$384.60	
Project Manager	$44.37	60	$2,662.20	
Designer	$26.48	36	$953.28	
TOTAL DIRECT LABOR		100	Hours	$4,000.08
6. Overhead (Combined Fringe Benefit & Administrative)			175%	$7,000.14
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$11,000.22
8. PROFIT: Labor Related Costs (Item 7)			x 10%	$1,100.02

PART III - OTHER COSTS		
9. Miscellaneous Direct Costs		
	$	
	$	
	$	
	$	
MISCELLANEOUS DIRECT COSTS SUB-TOTAL		$0.00
10. SUBCONTRACTS (Lump Sum)		
	$	
	$	
SUB-CONTRACT SUB-TOTAL		$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)		$12,100.24
11. REIMBURSABLE COSTS (Limiting Amount)		
	$ 0.00	
	$ 0.00	
	$ 0.00	
	$ 0.00	
SUB-TOTAL REIMBURSABLES		$0.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	**$12,100.24**
12. PRIOR CONTRACT AMOUNT (Through Amendment #X)	$0.00
TOTAL AMOUNT OF CONTRACT	**$12,100.24**

EXHIBIT G

FOR INFORMATION ONLY - DO NOT SUBMIT WITH YOUR PROPOSAL

Form 1 - SCHEDULE OF PROPOSED PRICES/RATES

NAME OF CONSULTANT Pond & Company

Proposal Number P-11-18

1. Average hourly direct labor rates (without Fringe Benefits)

Project Manager (Responsible Professional)	$ 44.37 hr.
Design Engineer or Architect (Registered)	$ N/A hr.
Designer or Technician (Non-Registered)	$ 26.48 hr.
Drafter or CADD Operator	$ N/A hr.
Field Inspector	$ N/A hr.
Clerical (Typist, Word Processor, Document Assembly, etc.)	$ N/A hr.

2. Total Overhead Rate (to be applied to Direct Labor:) 175 %

3. Profit Rate (to be applied to Direct Labor plus Overhead) 10 %

4. Cost of 4-man survey crew per 8 hour day (If applicable) $ N/A hr.

4. Other Direct Project Costs per Unit (please specify)

6. Estimated percentage of total fee to be performed by subconsultants N/A %

7. Please provide any other relevant rates that may apply to this project including average direct hourly labor rates for other categories of proposed personnel

SCOPE OF SERVICES
HART BRIDGE MODIFICATION D-B DCP/RFP
PROPOSAL NUMBER P-11-18
CITY OF JACJSONVILLE

- SCOPE OF WORK

  Pond & Company (POND) shall prepare a Landscape Opportunity Plan as part of the Hart Bridge Modification Plans Design Criteria Package being prepared by STV. The Project Point-of-Contact for STV is Keith Jackson. Email: keith.jackson@stvinc.com Phone: 904-265-7724. The Project Point-of-Contact for POND is Marty Child. Email: childm@pondco.com Phone: 904-394-8114. POND will provide the following landscape Architectural services in support of STV:

  - Attend kick-off meeting
  - Collect data and review
  - Prepare a Landscape Opportunity Plan to include the Bay Street landscape medians, proposed retention pond area, the interchange area associated with A. Phillip Randolph Street, and interchange area associated with Gator Bowl Boulevard.
  - Coordination with STV
  - Preliminary Cost Estimate for Conceptual Landscape Improvements
  - Provide PDF/Roll Plot to STV

  The Landscape Opportunity Plan will identify landscape planting areas, types and size of plant material, and spacing. Plant material locations will adhere to COJ and FDOT regulations relating to clear zones and sight line requirements.

- ASSUMPTIONS

  - STV will provide cad files/survey required to complete Landscape Opportunity Plan
  - Tree Mitigation Plans are not included as part of this scope
  - Irrigation Plans, Details, and Specifications are not included as part of this scope
  - Final Construction Landscape Plans, Details, and Specifications are not included as part of this scope
  - Final deliverable for this effort will be a PDF Roll Plot identifying landscaped areas described above

CONTRACT FEE SUMMARY FOR ENGINEERING DIVISION
CITY OF JACKSONVILLE, FLORIDA

PART I - GENERAL	
1. Project Hart Bridge Modification D-B DCP/RFP	2. Proposal Number P-11-18
3. Name of Consultant Southeastern Archaeological Research, Inc. (dba SEARCH)	4. Date of Proposal 5/15/2018

PART II - LABOR RELATED COSTS				
5. Direct Labor	Hourly Rate	Estimated Hours	Estimated Cost	TOTAL
Project Manager	$53.43	15	$801.45	
Chief Archaeologist	$42.68	7	$298.76	
Senior Scientist	$35.63	242	$8,622.46	
Scientist	$34.14	32	$1,092.48	
Senior Archaeologist	$35.20	42	$1,478.40	
Archaeologist	$22.47	0	$0.00	
GIS Specialist	$23.86	32	$763.52	
Secretary/Clerical	$27.81	24	$667.44	
TOTAL DIRECT LABOR		394	Hours	$13,724.51
6. Overhead (Combined Fringe Benefit & Administrative)			114.54%	$15,720.05
7. SUBTOTAL: Labor + Overhead (Items 5 & 6)				$29,444.56
8. PROFIT: Labor Related Costs (Item 7)			0.00%	$0.00

PART III - OTHER COSTS			
9. Miscellaneous Direct Costs		57.31%	$7,865.52
	FCCM	0.315%	$43.23
	Op Margin	28.00%	$3,842.86
MISCELLANEOUS DIRECT COSTS SUB-TOTAL			$11,751.61
10. SUBCONTRACTS (Lump Sum)	$	0.00	
SUB-CONTRACT SUB-TOTAL	$	0.00	$0.00
TOTAL LUMP SUM AMOUNT (Items 5, 6, 8, 9 and 10)			$41,196.17
11. REIMBURSABLE COSTS (Limiting Amount)	$	0.00	
SUB-TOTAL REIMBURSABLES	$	0.00	0.00

PART IV - SUMMARY	
TOTAL AMOUNT OF CONTRACT (Lump Sum Plus Reimbursables) (Items 5, 6, 8, 9, 10 and 11)	$41,196.17
12. PRIOR CONTRACT AMOUNT (Through Amendment #X)	$0.00
TOTAL AMOUNT OF CONTRACT	**$41,196.17**

EXHIBIT G

FOR INFORMATION ONLY - DO NOT SUBMIT WITH YOUR PROPOSAL

Form 1 - SCHEDULE OF PROPOSED PRICES/RATES

NAME OF CONSULTANT Southeastern Archaeological Research, Inc. (dba SEARCH)

Proposal Number P-11-18 (SEARCH #T018-016)

1. Average hourly direct labor rates (without Fringe Benefits)

Project Manager (Responsible Professional)	$ 53.43 hr.
Design Engineer or Architect (Registered)	$ n/a hr.
Designer or Technician (Non-Registered)	$ n/a hr.
Drafter or CADD Operator	$ 23.86 hr.
Field Inspector	$ n/a hr.
Clerical (Typist, Word Processor, Document Assembly, etc.)	$ 27.81 hr.

2. Total Overhead Rate (to be applied to Direct Labor:) 114.54 %

3. Profit Rate (to be applied to Direct Labor plus Overhead) 00.00 %

4. Cost of 4-man survey crew per 8 hour day (If applicable) $ n/a hr.

4. Other Direct Project Costs per Unit (please specify)

Misc (supplies) captured at 57.31% of Direct Labor

FCCM captured at 0.315% of Direct Labor

Operating Margin captured at 28% of Direct Labor

6. Estimated percentage of total fee to be performed by subconsultants TBD %

7. Please provide any other relevant rates that may apply to this project including average direct hourly labor rates for other categories of proposed personnel

Chief Archaeologist = $42.68/hour Senior Scientist = $35.63/hour Scientist = $34.14/hour

Senior Archaeologist = $35.20/hour Archaeologist = $22.47/hour

SEARCH

Scope of Services

Cultural Resource Assessment Survey
for the Hart Expressway Modifications
City of Jacksonville, Duval County, Florida

May 15, 2018

Project Description

SEARCH will prepare a cultural resources assessment survey in support of the Hart Expressway Modifications in the City of Jacksonville, Duval County, Florida. The proposed project includes the removal of a section of the Hart Expressway from approximately Liberty Street to East of Festival Park Avenue, construction of roadway and intersection improvements on Bay Street from the Hogans Creek Bridge to East of Festival Park Avenue and construction of new ramps connecting Bay Street to the Hart Expressway at the West end and Bay Street to the Hart Bridge approach at the East end.

The Cultural Resource Assessment Survey will consist of archaeological fieldwork and a historic structure survey, the results of which will be presented in a Phase I CRAS report that meets the guidelines of Part 2, Chapter 8 of the FDOT PD&E Manual (revised June 2017) and Chapter 1A-46 of the Florida Administrative Code. The field methods will follow the recommendations presented in Chapter 3 (Site Identification) of the FDOT Cultural Resource Management Handbook and Section 2 (Cultural Resource Assessment Surveys) of the FDHR's Cultural Resource Management Standards & Operations Manual.

A Phase I CRAS is designed to identify and evaluate cultural resources within a project's Area of Potential Effect (APE). Should additional work (Phase II Site Assessment, Determination of Eligibility, Section 106 Case Report, etc.) be requested by the State Historic Preservation Officer (SHPO) or other agency subsequent to the review of the Phase I CRAS results, such work will be conducted under a separate scope and cost agreement.

Area of Potential Effect (APE) Recommendation

For corridors, SEARCH generally recommends that the APE be defined to include parcels adjacent to the corridor, extending to the back or side property lines or a distance no greater than 100 meters (330 feet) to either side of the existing/proposed right-of-way. For proposed ponds, SEARCH generally recommends that the APE be defined to include the proposed pond footprint and a 100-foot buffer.

The archaeological survey will be limited to the project construction area (i.e., the existing and/or proposed right-of-way or pond footprints). The architectural survey will include the entire APE.

Buried Utility Location Law Compliance

In compliance with the "Underground Facility Damage Prevention and Safety Act," Chapter 556, Florida Statutes, SEARCH will use the Sunshine State One Call of Florida, Inc. (SSOCOF) system to coordinate for the location of buried utilities within the proposed project area. This effort will include at minimum the application for one locate ticket per mile of right of way, telephone coordination with the individual locators assigned to the project by SSOCOF, and the marking of proposed testing areas in the field.

Project Duration

The duration of this project will not exceed 15 months from contract execution.

Project Staff

SEARCH key personnel all exceed the qualifications presented in the Secretary of the Interior's *Standards and Guidelines for Archeology and Historic Preservation* (Federal Register V.48 N. 190 Part IV p. 44738-44739, September 30, 1983).

Deliverables

Quantity	Deliverable	Via
1	Certificate of Insurance[1]	Fax
1	End of Fieldwork memo[1]	Email
1	Draft Report PDF	Email
2	Draft Report (bound)[1]	FedEx
1	Final Report PDF	FedEx
5	Final Reports (bound)	FedEx
1	Final Report with SHPO Project Packet	FedEx
1	Recovered cultural material to FDOT	FedEx

[1] Upon Request

Project Tasks

The following tasks and subtasks generally comprise the level of effort required to complete this project. Staffhours associated with each task are shown on the attached Cost Proposal and Staffhour Estimate.

1. **Mobilization/Demobilization**
   - Landowner coordination
   - Buried utility location coordination
   - Buried utility locator field meeting
   - Equipment and vehicle preparation
   - Health and Safety preparation and meeting
   - Transport to and from the project area

2. **Background Research**
   - Florida Master Site File (FMSF) cultural resource database review

- FMSF cultural resource survey database review
- Literature review
- Historic USGS, USDA, GLO, state, county, and roadway map review
- Historic aerial review
- Environmental review
- Local informant interviews
- Certified Local Government representative coordination
- County Property Appraiser database review
- Archaeological site probability model development
- Historic structure probability model development

3. **Fieldwork**
   - Architectural History survey
   - Archaeology survey

4. **Data Analysis**
   - Field data analysis
   - Laboratory analysis
   - Curation preparation
   - Artifact delivery to permanent curation facility

5. **GIS**
   - Field map production
   - GPS data processing
   - Report map production

6. **Report Preparation and Production**
   - Progress reports
   - Draft report
   - Final report
   - FDHR Submission Packet
   - FMSF forms
   - Florida Survey Log form
   - Quality Control

7. **Meetings**
   - Agency coordination via telephone
   - Client teleconference

8. **Project Administration**
   - Project and contract setup
   - Risk management
   - Contract management
   - Project management

Insurance

SEARCH carries insurance for the following policies and will deliver a Certificate of Insurance to the Client upon request.

Policy Type	Limits Each Occurrence	Aggregate
Workers Compensation, including United States Harbor Workers and Longshoremen's Act (USL&H*)	Statutory Limits	Statutory Limits
Employers' Liability	$1,000,000	$1,000,000
General Liability	$1,000,000	$2,000,000
Professional Liability/ Contractors Pollution Liability	$2,000,000	$2,000,000
Automobile Liability	$1,000,000	$1,000,000
Umbrella	$3,000,000	$3,000,000
Maritime Employers Liability (Jones Act)*	$1,000,000	$1,000,000
Valuable Papers	$25,000	$25,000
Defense Base Act Coverage as needed on a project by project basis		

* Jones Act and USL&H polices apply to any work that is conducted in, on, or around navigable waters. Claims resulting from injuries in these areas typically are not covered by conventional Workers Compensation insurance policies, and can expose employers and landowners to certain federal laws in respect to employee injuries. SEARCH's policies protect against these claims.

Change Management Plan

SEARCH will submit a Project Modification Form (attached) to the Client for authorization for project changes that exceed the limitations of this Scope of Services. Project changes may include adjustments to the project description, duration, deliverables, tasks, staffhours estimate (attached), or the assumptions listed below.

Assumptions

Mobilization/Demobilization

- The Client will secure permission from the current landowner(s) allowing SEARCH field team's access to the project area.
- Preparation and distribution of fieldwork notification letters to property owners will not be the responsibility of SEARCH under this Scope of Services. The Client will distribute such letters and provide SEARCH with a copy to carry in the field.
- The Client will notify SEARCH of any environmental or physical hazards that may exist on the project area.

Fieldwork

- Fieldwork will be conducted during one field session; return trips at the request of the client or agency will be considered a project change.

Report Preparation

- Requests for deliverables in addition to those listed in the Deliverables section will be considered a project change. This includes additional report copies, interim reports, report sections, progress reports, technical memoranda, digital media (including GIS data), press releases, or agency or Tribal correspondence.
- SEARCH will receive all comments from all reviewers for the Draft Report as one submittal. Additional comment submittals will be considered a project change.

Meetings

- No meeting or public hearing attendance will be conducted.
- Only one field meeting will be conducted with buried utility location contractors.
- Consultation with federally recognized Native American Tribes will not be the responsibility of SEARCH under this scope of work.

Staffhours and Lump Sum Cost

SEARCH will complete this project with 394 staffhours for a cost of $41,196.17.

PROJECT MODIFICATION #_____

Financial Management #_____

SEARCH Project #_____

Date: _____

Project Title

Modification Description

Modification Staffhours and Cost

Total Contract Value (including Modifications)

Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

MIKE DEW
SECRETARY

June 15, 2017

Anoinette Meskel, President
MESKEL & ASSOCIATES ENGINEERING, PLLC
8936 Western Way, Suite 12
Jacksonville, Florida 32256

Dear Ms. Meskel:

The Florida Department of Transportation has reviewed your application for qualification package and determined that the data submitted is adequate to qualify your firm for the following types of work:

Group 9 - Soil Exploration, Material Testing and Foundations

- 9.1 - Soil Exploration
- 9.2 - Geotechnical Classification Laboratory Testing
- 9.3 - Highway Materials Testing
- 9.4.1 - Standard Foundation Studies

Group 10 - Construction Engineering Inspection

- 10.3 - Construction Materials Inspection

Your overhead audit has been accepted, enabling your firm to compete for Professional Services projects advertised at the unlimited level, with estimated fees of any dollar amount. This status shall be valid until June 30, 2018 for contracting purposes.

	Home/ Branch Office	Field Office	Facilities Capital Cost of Money	Overtime Premium	Direct Expense	Published Fee Schedule
Indirect Cost	266.84%	124.16%	0.322%	Reimbursed	3.11% (Home) 0.00% (Field)*	Yes

*Rent and utilities excluded from field office rate. These costs will be directly reimbursed on contracts that require the consultant to provide field office.

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,

Carliayn Kell

Carliayn Kell
Professional Services
Qualification Administrator

Florida Department of Transportation

RICK SCOTT
GOVERNOR

605 Suwannee Street
Tallahassee, FL 32399-0450

MIKE DEW
SECRETARY

January 18, 2018

Lance Lairscey, Vice President
CARDNO, INC.
380 Park Place Boulevard, Suite 300
Clearwater, Florida 33759

Dear Mr. Lairscey:

The Florida Department of Transportation has reviewed your application for qualification package and determined that the data submitted is adequate to technically qualify your firm for the following types of work:

Group 2 - Project Development and Environmental (PD&E) Studies

Group 3 - Highway Design - Roadway

- 3.1 - Minor Highway Design
- 3.2 - Major Highway Design
- 3.3 - Controlled Access Highway Design

Group 4 - Highway Design - Bridges

- 4.1.1 - Miscellaneous Structures
- 4.1.2 - Minor Bridge Design
- 4.2.2 - Major Bridge Design - Steel

Group 5 - Bridge Inspection

- 5.4 - Bridge Load Rating

Group 6 - Traffic Engineering and Operations Studies

- 6.1 - Traffic Engineering Studies
- 6.2 - Traffic Signal Timing
- 6.3.1 - Intelligent Transportation Systems Analysis and Design
- 6.3.2 - Intelligent Transportation Systems Implementation
- 6.3.3 - Intelligent Transportation Traffic Engineering Systems Communications

Group 7 - Traffic Operations Design

- 7.1 - Signing, Pavement Marking and Channelization
- 7.2 - Lighting
- 7.3 - Signalization

Group 8 - Survey and Mapping

8.1 - Control Surveying
8.2 - Design, Right of Way & Construction Surveying
8.4 - Right of Way Mapping

Group 10 - Construction Engineering Inspection

10.1 - Roadway Construction Engineering Inspection
10.3 - Construction Materials Inspection
10.4 - Minor Bridge & Miscellaneous Structures CEI
10.5.1 - Major Bridge CEI - Concrete
10.5.2 - Major Bridge CEI - Steel
10.5.3 - Major Bridge CEI - Segmental

Group 13 - Planning

13.3 - Policy Planning
13.5 - Subarea/Corridor Planning
13.6 - Land Planning/Engineering

Group 15 - Landscape Architect

Your overhead audit has been accepted, enabling your firm to compete for Professional Services projects advertised at the unlimited level, with estimated fees of any dollar amount. This status shall be valid until December 31, 2018 for contracting purposes.

Approved Rates

Home/ Branch Overhead	Field Overhead	Facilities Capital Cost of Money	Premium Overtime	Home Direct Expense	Field Direct Expense	Published Fee Schedule
193.74%	148.17%	0.388%	Reimbursed	24.29%	20.74%*	Yes

Subsurface Utility Engineering Rates

Vacuum Excavation Equipment	$78 per hour
Designating Equipment	$22 per hour
Survey Equipment	$31 per hour

*Rent and utilities excluded from field office rate. These costs will be directly reimbursed on contracts that require the consultant to provide field office.

Should you have any questions, please feel free to contact me by email at carliayn.kell@dot.state.fl.us or by phone at 850-414-4597.

Sincerely,

Carliayn Kell

Carliayn Kell
Professional Services
Qualification Administrator

Cardno, Inc.
BASIS OF HOURLY LOADED RATES

Based on Payroll Register Dated:		4-May-18 (Pay Date)
Profit	10.00%	
Overhead:	193.74%	
FCCM:		
Direct Expenses		

SUR Chief Surveyor Person	Hourly Rate	Weighting Percentage	Weighted Rate
Daryl Thie	$ 72.60	70%	$ 50.82
Martin Dardis	$ 48.45	30%	$ 14.54
	Average Hourly Rate:		$ 65.36
	Direct Labor:		$ 65.36
	Overhead (on Direct Labor):	193.74%	$ 126.63
			$ 191.99
	Profit (on Direct Labor and Overhead):	10.00%	$ 19.20
	Total Loaded Rate:		**$ 211.19**

Secretary / Clerical Person	Hourly Rate	Weighting Percentage	Weighted Rate
Kim Warner	$ 26.71	30%	$ 8.01
Kelly Bishop	$ 36.54	20%	$ 7.31
Priscilla Buchanan	$ 18.40	50%	$ 9.20
	Average Hourly Rate:		$ 24.52
	Direct Labor:		$ 24.52
	Overhead (on Direct Labor):	193.74%	$ 47.51
			$ 72.03
	Profit (on Direct Labor and Overhead):	10.00%	$ 7.20
	Total Loaded Rate:		**$ 79.23**

Project Manager/Senior Utility Coordinator Person	Hourly Rate	Weighting Percentage	Weighted Rate
Terry Crews	$ 42.79	100%	$ 42.79
	Average Hourly Rate:		$ 42.79
	Direct Labor:		$ 42.79
	Overhead (on Direct Labor):	193.74%	$ 82.90
			$ 125.69
	Profit (on Direct Labor and Overhead):	10.00%	$ 12.57
	Total Loaded Rate:		**$ 138.26**

CARDNO CERTIFIED PAYROLL

Cardno
Shaping the Future

Period End: 04/27/18

PayDate: 5/4/18

Cardno
10004 Park Meadows Drive
Suite 300
Lone Tree, CO 80124
USA

Phone: +1 720 257 5800
Fax: +1 720 257 5801
www.cardno.com

NAME OF CONTRACTOR OR SUBCONTRACTOR: CARDNO

ADDRESS:

PROJECT AND LOCATION:

FINANCIAL PROJECT ID:

(1) EMPLOYEE NAME	INDIVIDUAL IDENTIFYING NUMBER (e.g. EMPLOYEE ID NUMBER) OF	NO. OF WITHHOLDING	(2) WORK CLASSIFICATION	(3) TOTAL HOURS	(4) TYPE OF HOUR	(5) RATE OF PAY	(6) GROSS AMOUNT EARNED	(7) DEDUCTIONS: FICA	WITH-HOLDING TAX	IMPUTED INCOME	PRE-TAX DEDUCTIONS	OTHER	TOTAL DEDUCTIONS	NET WAGES
Warner, Kim	5555		Clerical	50.00	Regular	$ 26.71	$ 2,149.42	$ 155.75	$ 173.55	$ 10.15	$ 305.68	$ 149.17	$ 794.30	$ 1,355.12
				-	Overtime	$ 40.07								
Bishop, Kelly	4820		Clerical	80.00	Regular	$ 36.54	$ 2,942.87	$ 210.33	$ 220.18	$ 13.89	$ 632.00	$ 5.93	$ 1,082.33	$ 1,860.54
				-	Overtime	$ 54.81								
Buchanan, Priscilla	100839		Clerical	65.50	Regular	$ 18.40	$ 1,829.07	$ 124.02	$ 115.74	$ 6.99	$ 350.06	$ 134.46	$ 731.27	$ 1,097.80
				0.75	Overtime	$ 27.60								
Crews, Terry	101623		Project Manager/Senior Utility Coordinator	76.00	Regular	$ 42.79	$ 3,445.70	$ 258.52	$ 455.63	$ 16.26	$ 203.22	$ 34.70	$ 968.33	$ 2,477.37
				-	Overtime	$ 64.19								
Thie, Daryl	5887		Chief Surveyor	80.00	Regular	$ 72.60	$ 5,865.36	$ 448.69	$ 714.19	$ 27.59	$ 755.05	$ 29.70	$ 1,975.22	$ 3,890.14
				-	Overtime	$ 108.90								
Dardis, Martin	5934		Chief Surveyor	80.00	Regular	$ 48.45	$ 3,938.77	$ 301.32	$ 635.70	$ 18.41	$ 232.56	$ 44.36	$ 1,232.35	$ 2,706.42
				-	Overtime	$ 72.68								

I certify that the above rates are true and correct for pay period ending 4/27/18, paid on 5/4/18.

Sheri Kay 5/10/2018

Sheri Kay, Payroll Director, Cardno North Americas