

PORT ST. LUCIE CITY COUNCIL
AGENDA ITEM REQUEST

COUNCIL ITEM 13J
DATE 1/9/12

Meeting Date: January 9, 2012

Public Hearing Ordinance Resolution Motion

Item: #20120005, Design and Permit Sidewalk and Pedestrian Bridge at Savona

Recommended Action:

1) Approve a time and expense contract #20120005 with Captec Engineering Inc. at an estimated amount of \$153,870.80 for the design and permit of the sidewalk and pedestrian bridge at Savona.

Exhibits: Department memo attached yes
Copies of the Contract and CD's of negotiation meetings.

Summary Explanation/Background Information: City staff met with the #1 firm Infrastructure Engineers Inc. several times and was unable to define a scope of work that met the project needs determined by the City. City staff terminated negotiations with the #1 firm and opened negotiations with the #2 firm Captec Egnineering that resulted in the proposed contract for your approval for this project.

The need for the above is:

Purchase is not a replacement

Purchase is budgeted.

Department requests expenditure from the following:

Fund	304	R & B CIP
Cost Center	4105	Road & Street
Object Code	563005	Professional Services
Project	TBA	Savona sidewalk

Director of OMB concurs with award:
_____ minutes to make a presentation.

City Manager concurs with award: Department requests

Submitted by:

Patricia Roebeling
City Engineer

Date Submitted December 29, 2011

RECEIVED

JAN 04 2012

City Manager's Office



"A City for All Ages"

CITY OF PORT ST. LUCIE

Engineering Department

Accredited Agency – American Public Works Association

MEMORANDUM

TO: Cheryl Shanaberger – Deputy Director of OMB
FROM: Roxanne M. Chesser, P.E., Civil Engineer 
DATE: January 4, 2012
RE: Design and Permitting of Savona Boulevard Sidewalk and Pedestrian Bridge from Gatlin Boulevard to North of C-24 Canal Contract No 20120005

The Engineering Department participated in the negotiation of the contract with CAPTEC Engineering, Inc. for the Savona Boulevard Sidewalk and Pedestrian Bridge. Based upon these negotiations, we believe that the scope of work, contract price and contract time provided by CAPTEC, Inc. in their proposed contract are consistent with the needs of the project and City. For this reason, the Engineering Department is recommending that the proposed contract be reviewed and considered by City Council.

The negotiated contract presents a scope of work that will provide the City with the design, permitting, and post services for about 2,500 feet of 6-foot wide sidewalk and an 8-foot wide pedestrian bridge over the C-24 canal. The contract price of \$153,870.80 is within the budgeted amount for the work and will be completed within 730 days from the notice to proceed. The funding source for this work is 304-4105-563005.

If additional documentation is needed, or if you have any questions, please do not hesitate to contact me. Thank you.

c: Jesus Merejo - Utility Systems Director
Patricia Roebing, P.E., - City Engineer
Kim Graham, P.E. - Assistant City Engineer
Sue Walsh – Manager of Engineering Ops
Edie Majewski - Project Coordinator

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**CITY OF PORT SAINT LUCIE
CONTRACT #20120005**

This is a Time and Expense CONTRACT, executed this _____ day of _____, 2011 by and between the CITY OF PORT ST. LUCIE, FLORIDA, a municipal corporation, duly organized under the laws of the State of Florida, hereinafter called "City" party of the first part, CAPTEC Engineering, Inc., a Florida Corporation, , located at 301 NW Flagler Ave., Stuart, FL, 34994 Telephone No.(772) 692.4344; Fax No. (772) 692.4341, hereinafter called "Engineer", party of the second part.

RECITALS

In consideration of the below agreements and covenants set forth herein, the parties agree as follows:

**SECTION I
NOTICES & DESCRIPTION OF SERVICES TO BE PROVIDED**

The scope of work that the Engineer has agreed to perform pursuant to E-bid #20120005 for the design and permitting of the Savona Boulevard sidewalk and pedestrian bridge from Bougainvillea Avenue to north of the C024. All Terms and Conditions of the Master Contract #20100050 will apply.

Notices

All notices or other communications hereunder shall be in writing and shall be deemed duly given if delivered in person, sent by certified mail with return receipt request, email or fax and addressed as follows unless written notice of a change of address is given pursuant to the provisions of this Contract.

Engineer: CAPTEC Engineering, Inc.
Att: Joseph W. Capra, P.E., President
301 NW Flagler Avenue
Stuart, Florida 34994
Tel: 772.692.4344, Fax 772.692.4341
Email: jcapra@goCAPTEC.com

City Contract Administrator: Office of Management & Budget
Att: Cheryl Shanaberger, Deputy Director OMB
City of Port St. Lucie
121 SW Port St. Lucie, Blvd.
Port St. Lucie, FL. 34984
Telephone 772 871 7390 Fax 772 871 7337
Email: cheryls@cityofpsl.com

City Project Manager: Port St. Lucie Engineering Department
Ms. Roxanne Chesser
City of Port St. Lucie
121 SW Port St. Lucie Blvd.
Port St. Lucie, FL., 34985
Telephone 772 871 5186 Fax 772 871 5289
Email rchesser@cityofpsl.com

Description of Services

The project consist of the design and permitting of approximately 2,500 feet of six-foot wide concrete sidewalk on the west side of Savona Boulevard from the existing sidewalk at Bougainvillea Avenue north to the existing sidewalk north of the C-24 canal with an 8-foot wide pedestrian bridge over the C-24. This project is being completed though the FDOT Local Agency Program (LAP) and the Engineer will be responsible for completing the necessary submittals and preparing the design so that the project is in compliance with FDOT LAP requirements.

The engineering services includes all survey, geotechnical, design and permitting work associated with the complete design and permitting of the sidewalk and pedestrian bridge including, but not limited to, intersection improvements; drainage modifications; driveway and culvert replacement; utility relocations; adjustments to the round-a-bout at Abingdon Avenue; permitting of the proposed work with South Florida Water Management and US Coast Guard Bridge Permit (if needed); completion of the requisite FDOT LAP documentation showing the coordination and resolution of environmental issues during the development of the plans; coordination and minor assistance with the public notification of the construction project; and minimal post design services.

The Engineer shall prepare a complete set of construction plans in accordance with FDOT Plans Preparation Manual. The design shall follow the FDOT design criteria set forth in the Standard Specifications, Roadside Design Guide, and the Manual of Uniform Minimum Standards for Design, Construction, and Maintenance of Standard Streets (Florida Green Book). Additional criteria from the AASHTO A Policy on Geometric Design of Highways and Streets and the Institute of Traffic Engineers (ITE) Traffic Engineering Handbook may also be applicable. The construction plans shall include cross sections at a minimum of 200-foot intervals as well as plan and profile views.

The engineer shall coordinate the design plans with and obtain permits from all applicable agencies including, but not limited to, City Engineering Department, City Utility Systems Department, FDOT, private utility owners, SFWMD, and the US Coast Guard.

The Engineer shall submit the applicable components of the LAP submittals to the City and be familiar with FDOT's electronic review process (ERC) for addressing FDOT review comments. Post design services include, but are not limited to, preparation of the construction specifications, answering questions about the bid documents during the bid process, attending the

preconstruction meeting and the progress meetings, as needed, and resolve design issues identified in the field during construction.

In addition to the deliverables to FDOT and the regulatory reviews, deliverables supplied to the City shall include:

- Two (2) hard copies of 30%, 60%, and 90% Construction Drawings
- One (1) PDF copy of 30%, 60%, and 90% Construction Drawings
- Four (4) sets of signed and sealed 100% "Approved for Construction" Drawings
- One (1) PDF copy of 100% "Approved for Construction" Drawings
- One (1) AutoCad copy of 100% "Approved for Construction" Drawings
- One (1) hard copy of permit application submittals
 - All plans will be completed in 11"x17" format.

Task 1 – Preliminary Engineering (30%)

The Engineer will perform the project survey in reference to NAD 83 datum and NAVD 88 datum. The survey will consist of recording topographic information within the project limits along Savona Boulevard from the centerline of the road to 10 feet outside the existing Right-of-Way. The Engineer will provide a Project Network Control Sheet to accurately correlate design information to existing benchmarks. The City will be responsible for providing any title work needed to clarify discrepancies encountered when researching the existing Right-of-Way.

The Engineer will complete the geotechnical investigation of the site. The investigation will include the sampling of two (2) Standard Penetration Test (SPT) borings in the vicinity of the proposed abutments on either side of the C-24 Canal for the pedestrian bridge. Each SPT boring will be excavated to a depth of 70 feet. Ten (10) auger borings will be sampled to a depth of 5 feet along the proposed sidewalk alignment to determine the depth of topsoil and the presence of any subsurface unsuitable soil. Findings will be detailed in a report that will include recommendations for the construction of the proposed pedestrian bridge and sidewalks.

The Engineer will complete an Environmental Assessment of the project limits. The Assessment will be necessary to fulfill SFWMD, ACOE, and FDOT requirements and will include:

- Wetland Delineation for SFWMD and ACOE jurisdictional determination
- Endangered & Threatened Species Survey
- Vegetation (FLUFCS) Map
- Soils Map
- SHPO Review
- EA Report

The Engineer will complete a Bridge Development Report (BDR). The BDR will determine the most cost effective solution to the design and identify the recommended bridge design style and configuration for the project. The BDR will be submitted to the City for approval with the 30% Sidewalk Improvement Plans.

The Engineer will prepare 30% Sidewalk Improvement Plans for the project. The 30% Plan Set will include the following sheets:

- Key Sheet - Preliminary

- Typical Section - Preliminary
- Project Layout - Preliminary
- Sidewalk Plan-Profile - Preliminary
- Intersection Layout/ Detail - Preliminary
- Cross Sections - Preliminary
- Traffic Control Plans – Preliminary

The Engineer will obtain a design ticket through Sunshine One Call (SSOC) for the project. All utility owners identified on the design ticket will be notified of the upcoming project and preliminary plans will be sent to the utility owners with requests for the owners to identify the location of their utilities.

The 30% plans will be submitted upon completion to the City of Port St. Lucie for review. Any comments received will be addressed and 30% Plans resubmitted to the City for FDOT LAP Initial Phase submittal.

The Engineer will prepare a 30% Cost Estimate using FDOT Pay Items and the FDOT approved spreadsheet. The Cost Estimate will be submitted with the 30% Plans for Submittal to FDOT.

Task 2 – Design Development (60%)

The Engineer will attend a Public Involvement Meeting during this task. The Engineer will provide plans and display boards as needed and discuss the project with attendees in an informal setting.

The Engineer will prepare 60% Sidewalk Improvement Plans for the project. The 60% Plan Set will include the following sheets:

- Key Sheet – Complete but Subject to Change
- Summary of Pay Items - Preliminary
- Typical Section - Complete but Subject to Change
- Project Layout - Complete but Subject to Change
- Sidewalk Plan-Profile - Complete but Subject to Change
- Intersection Layout/ Detail - Complete but Subject to Change
- Roadway Soil Survey - Preliminary
- Cross Sections – Preliminary
- Stormwater Pollution Prevention Plan - Preliminary
- Traffic Control Plans – Preliminary
- Utility Adjustment – Preliminary
- Selective Clearing & Grubbing (if needed) – Preliminary
- Bridge Plans – Preliminary
- Signing & Marking Plans – Preliminary

The 60% plans will be submitted upon completion to the City of Port St. Lucie for review. Any comments received will be addressed and incorporated into the 90% Plans.

Task 3 – Final Engineering (90%)

The Engineer will prepare 90% Sidewalk Improvement Plans for the project. The 90% Plan Set will include the following sheets:

- Key Sheet – Complete but Subject to Change
- Summary of Pay Items – Complete but Subject to Change
- Typical Section - Complete but Subject to Change
- Project Layout - Complete but Subject to Change
- Sidewalk Plan-Profile - Complete but Subject to Change
- Intersection Layout/ Detail - Complete but Subject to Change
- Roadway Soil Survey – Complete but Subject to Change
- Cross Sections – Complete but Subject to Change
- Stormwater Pollution Prevention Plan – Complete but Subject to Change
- Traffic Control Plans – Complete but Subject to Change
- Utility Adjustment – Complete but Subject to Change
- Selective Clearing & Grubbing (if needed) – Complete but Subject to Change
- Bridge Plans – Complete but Subject to Change
- Signing & Marking Plans – Complete but Subject to Change

The Engineer will prepare Technical Specifications to be included in the bid documents. The Technical specifications will include the items that FDOT requires for all LAP Projects as well as any technical specifications needed for construction items that are not covered in the construction plans or FDOT Standard Specifications.

The Engineer will prepare a 90% Cost Estimate using FDOT Pay Items and the FDOT approved spreadsheet. The Engineer will prepare plans using hatched areas and labels to provide back-up of all quantities.

The Engineer will send 90% plans to all utility owners for verification of their utility locations. Utility owners will also be instructed to finalize the design of any of their utilities needing adjustment for the construction of this project. No Test Holes to locate existing utilities are included in this contract.

The Engineer will submit the 90% Plans, Technical Specifications, Cost Estimate, Utility Coordination Documentation, and Bridge Design Calculations to the City for review. All comments received will be incorporated into the 100% documents.

Task 4 – Bid Documents (100%)

The Engineer will prepare 100% Sidewalk Improvement Plans for the project. The 100% Plan Set will include the following sheets:

- Key Sheet – FINAL
- Summary of Pay Items – FINAL
- Typical Section – FINAL
- Project Layout – FINAL
- Sidewalk Plan-Profile – FINAL
- Intersection Layout/ Detail – FINAL

- Roadway Soil Survey – FINAL
- Cross Sections – FINAL
- Stormwater Pollution Prevention Plan – FINAL
- Traffic Control Plans – FINAL
- Utility Adjustment – FINAL
- Selective Clearing & Grubbing (if needed) – FINAL
- Bridge Plans – FINAL
- Signing & Marking Plans – FINAL

The Engineer will finalize Technical Specifications to be included in the bid documents.

The Engineer will prepare a 100% Cost Estimate using FDOT Pay Items and the FDOT approved spreadsheet. The Engineer will prepare plans using hatched areas and labels to provide back-up of all quantities.

The Engineer will submit the signed & sealed 100% Plans, Technical Specifications, Cost Estimate, Environmental Checklist and Memorandum, Utility Coordination Documentation, and Bridge Design Calculations to the City for submittal to FDOT

Task 5 – Permitting

The Engineer will prepare permit applications and submit application packages to all permitting agencies anticipated for this project. The Engineer will submit documentation for the following permits:

- SFWMD/ACOE ERP
- SFWMD Right-of-Way Permit Modification
- US Coast Guard (USCG) exemption
- Eastern Indigo Snake Protection Plan

Permitting work will begin following development of the 30% Plans. The City will be required to pay all permitting fees directly to the permitting agencies. The total combined fees paid to permitting agencies are not expected to exceed \$5,250 based on the current fee schedules:

- SFWMD/ ACOE ERP General Permit Fee = \$3,500 or,
- SFWMD/ ACOE ERP General Permit Modification Fee = \$1,5000 and,
- SFWMD Right of Way Permit Modification Fee = \$1,750

No fees are expected for the USCG bridge permit exemption.

Task 6 – LAP coordination

The Engineer will provide specific items required for submittal to FDOT in accordance with the latest FDOT LAP submittal checklists. This Task includes the submittal of the documents required for the Initial, and Constructability Phase Submittals. The Engineer will provide the City with the required hardcopies and electronic files. The City will be responsible for preparing items such as the LAP Certification documents, the Right-of-Way Certification, Environmental Checklist and Backup Memorandum, Front End Documents for the Bid Documents, the Federal Requirements LAP Checklist for Construction Contracts, and the Compact Disks containing all submittal documents. The City, as LAP Administrator, will be required to submit all documents to FDOT.

The Engineer will provide responses to all FDOT comments using the Electronic Review Comments (ERC) system. The LAP Administrator will be responsible for requesting the Engineer's assignment to the ERC system for this project from FDOT.

Task 7-Post Design Services

The Engineer will answer questions about the bid documents during the bid process, attend the preconstruction meeting and the progress meetings, as needed, and resolve design issues identified in the field during construction. The fee provided for this task is estimated and may need to be increased based on the amount of field assistance requested during construction.

Milestone dates:

The Engineer agrees to meet the following milestone dates:

- Task 1 (30% Plans) - March 23, 2012
- Task 2 (60% Plans) – May 25, 2012
- Task 3 (90% Plans) – July 27, 2012
- Task 4 (100% Plans) – September 7, 2012
- Task 4 (Signed & Sealed Documents) – January 11, 2013

**SECTION II
TIME OF PERFORMANCE**

Contract period shall start _____, 201, and end _____, 2012, _____ seven hundred and thirty (730) calendar days. In the event all work required in the proposal specifications has not been completed by the specified date, the Engineer agrees to provide work as authorized by the Contract Supervisor until all work specified in the proposal specifications has been rendered.

**SECTION III
COMPENSATION**

This is a Time and Expense Contract. The total amount to be paid by the City to the Engineer is based on actual time spent on this project with an estimated. All Lump Sum Amounts are Not to Exceed amounts. The City will not pay for out-of-pocket expenses (Office & Utilities), sub-consultant fees or any reimbursable expense.

The Engineering fees for Preliminary Design - Task 1 are:

	Est. hours	Rate	Est. Fee
Principal/ Q/C Manager	16	\$150.00	\$2,400.00
Project Manager	66	\$130.00	\$8,580.00
Design Manager	14	\$110.00	\$1,540.00
Civil Design Technician	86	\$85.00	\$7,310.00
Project Coordinator	40	\$55.00	\$2,200.00
Surveyor			\$8,270.00
Geotechnical			\$7,845.00
Structural			\$11,823.00
Environmental			\$3,472.00
		TASK 1 TOTAL	\$53,440.70

The Engineering fees for Design Development - Task 2 are:

	Est. hours	Rate	Est. Fee
Principal/ Q/C Manager	10	\$150.00	\$1,500.00
Project Manager	62	\$130.00	\$8,060.00
Design Manager	20	\$110.00	\$2,200.00
Civil Design Technician	56	\$85.00	\$4,760.00
Project Coordinator	24	\$55.00	\$1,320.00
Structural			\$11,733.00
		TASK 2 TOTAL	\$29,573.00

The Engineering fees for Final Design - Task 3 are:

	Est. hours	Rate	Est. Fee
Principal/ Q/C Manager	12	\$150.00	\$1,800.00
Project Manager	46	\$130.00	\$5,980.00
Design Manager	12	\$110.00	\$1,320.00
Civil Design Technician	68	\$85.00	\$5,780.00
Project Coordinator	40	\$55.00	\$2,200.00
Structural			\$6,070.00
		TASK 3 TOTAL	\$23,150.00

The Engineering fees for Bid Documents - Task 4 are:

	Est. hours	Rate	Est. Fee
Principal/ Q/C Manager	8	\$150.00	\$1,200.00
Project Manager	36	\$130.00	\$4,680.00
Design Manager	8	\$110.00	\$ 880.00
Civil Design Technician	48	\$85.00	\$4,080.00
Project Coordinator	14	\$55.00	\$ 770.00
Structural			\$3,870.00
		TASK 4 TOTAL	\$15,480.00

The Engineering fees for Permitting - Task 5 are:

	Est. hours	Rate	Est. Fee
Principal/ Q/C Manager	18	\$150.00	\$2,700.00
Project Manager	49	\$130.00	\$6,370.00
Design Manager	8	\$110.00	\$880.00
Civil Design Technician	6	\$85.00	\$510.00
Project Coordinator	39	\$55.00	\$2,145.00
Environmental			\$10,049.10
		TASK 5 TOTAL	\$22,654.10

The Engineering fees for LAP Coordination - Task 6 are:

	Est. hours	Rate	Est. Fee
Principal/ Q/C Manager	0	\$150.00	\$ 0.00
Project Manager	20	\$130.00	\$2,600.00
Design Manager	4	\$110.00	\$ 440.00
Civil Design Technician	4	\$85.00	\$ 340.00
Project Coordinator	8	\$55.00	\$ 440.00
TASK 6 TOTAL			\$3,820.00

The Engineering fees for Post Design - Task 7 are:

	Est. hours	Rate	Est. Fee
Principal/ Q/C Manager	0	\$150.00	\$ 0.00
Project Manager	16	\$130.00	\$2,080.00
Design Manager	0	\$110.00	\$ 0.00
Civil Design Technician	4	\$85.00	\$ 340.00
Project Coordinator	4	\$55.00	\$ 220.00
Structural			\$3,113.00
TASK 7 TOTAL			\$5,753.00

TOTAL = \$153,870.80

Total is a Not to Exceed amount that will be paid at actual time and expense

Engineer VISA Payment Procedures

1. A ghost account with Bank of America (BOA) will be established for the project. The account dollar limit will be established by the City's estimate of monthly expense. The account will also have limits as per the MCC code. Reasonable total invoice amounts will also be established. The ghost account will be entered with the proper expense codes. The Engineer will be provided this ghost account number to process payments.
2. A purchase order to the Engineer for this project will be issued.
3. The Engineer will send the Project Manager by the 1st of each month a detail estimated pay request listing employee title, estimated hours of work, hourly rate and related tasks to be completed that will be accomplished by the 25th of the same month.
4. The City's Project Manager will approve the estimated pay request by the 6th of the same month. The City's Project manager is signing and agreeing that the task estimates are reasonable and feasible as to being completed by the 25th of the same month.
5. The Project Manager (PM) will email the approved pay request estimate (Visa Order Form) to the Contract Specialist, City's P-Card Administrator and the Engineer to proceed with placing the charge on the BOA specified account.

6. The Engineer may not place the charge on the ghost account until the 6th of each month. Under no circumstances will the account be used between the 1st and 5th of the month.
7. The Engineer will send the invoice with all required documents as per the contract to the PM by the 25th of each month. The invoice total must match the previously submitted pay request total for the same work period.
8. The PM will audit to determine that work and materials that are being billed have been completed and installed as per contract specifications. The PM will sign documents that state the payment is correct and payment by the City is authorized. This is the invoice that will authorize the City to pay the bank provider-BOA. The PM will breakout the pay items and assign to purchase order subsections as part of the process.
9. The PM will have the signed invoice and documents to the Contract Specialist and P-Card Administrator no later than the 10th of each month.
10. The PM will mark any pay estimate that should not be paid and provide explanation. All pay estimate approved by the PM that are charged to Visa must equal the invoice. All adjustments must be made on following pay estimate.
11. OMB will balance statement and issue all dispute items.
12. OMB will produce summary sheet and send all documentation to Finance for payment.

Pay Estimate does not Equal Actual Work Completed

The City will allow up to 15% of the estimated work not to be completed by the 25th of the month and still approve the invoice. However, the Engineer on the 6th of the following month must indicate the adjustment amount as a credit on the new pay estimate being submitted. The City cannot pay credits.

Over estimates of 15% for three than (3) consecutive months will be considered abuse. The PM will be responsible for establishing the correct estimated amounts in the following months.

If during the month the PM determines that the estimated pay request amount cannot be reached by more than 15% and it is due to the performance of the Engineer, a credit must be issued on Visa by the Engineer as soon as possible for the entire amount of work and materials that will not be completed. This credit will be issued on the ghost account for the full amount of the original estimate charged no later than the 25th of that month. A transaction for the correct amount that equals the value of the work and material that will be completed will be charged to the account.

Pay request for services shall be submitted by the 5th of the month for that months estimated amount of work. Any work not completed will be adjusted in the next month's payment. Payments shall be made provided the submitted invoice is accompanied by adequate supporting documentation and is approved by PM.

All work compensated for under this Contract, including partial payments, shall become the property of the City of Port St. Lucie without restrictions or limitations. Work under this Contract shall include but not be limited to sketches, tracings, drawings, computations, details, design calculations, plan, electronic files and other related documents. The Engineer shall not be held liable for any reuse of the work and shall not be held liable for any modifications made to the work by others.

All invoices and correspondence relative to this Contract must contain the Purchase Order number, last 4 digits of the BOA ghost account and Contract number.

All work compensated for under this Contract, including partial payments, shall become the property of the City of Port St. Lucie without restrictions or limitations. Work under this Contract shall include but not be limited to sketches, tracings, drawings, computations, details, design calculations, plan, electronic files and other related documents. The Engineer shall not be held liable for any reuse of the work and shall not be held liable for any modifications made to the work by others.

All invoices and correspondence relative to this Contract must contain the Purchase Order number/VISA order # and Contract number.

SECTION IV CONFORMANCE WITH PROPOSAL

It is understood that the materials and/or work required herein are in accordance with the proposal made by the Engineer pursuant to the Request for Proposal and Specifications on file in the Office of Management and Budget of the City. All documents submitted by the Engineer in relation to said proposal, and all documents promulgated by the City for inviting proposals are, by reference, made a part hereof as if set forth herein in full.

SECTION V INDEMNIFICATION/INSURANCE

To the extent permitted under Florida Statutes, the Engineer shall indemnify, defend, and hold harmless the City, its representatives, employees and elected and appointed officials, from and against all claims, cause, demands, legal fees, cost of action, losses, damages or other expenses occasioned by any negligent act, conduct, error or omission by the Engineer, or its agents, employees or sub-consultants, in the performance of this Contract. As consideration for this indemnity provision the Engineer shall be paid the sum of ten dollars (\$10.00), which will be paid at execution of Contract.

The Engineer shall, on a primary basis and at its sole expense, agree to maintain in full force and effect at all times during the life of this Contract, insurance coverage, limits, including endorsements, as described herein.

The Engineer shall agree to maintain Workers' Compensation Insurance & Employers' Liability in accordance with Florida Statutes Chapter 440. Coverage must include Employers' Liability with a minimum limit of \$100,000 each.

The Engineer shall agree to maintain Any Auto, Business Automobile Liability at a limit of liability not less than \$500,000 each occurrence for all owned, non-owned and hired automobiles. In the event the Engineer does not own any automobiles the Business Auto Liability requirement shall be amended allowing Engineer to agree to maintain only Hired & Non-Owned Auto Liability. This amended requirement may be satisfied by way of endorsement to the Commercial General Liability, or separate Business auto Coverage form.

Commercial General Liability for public liability during the lifetime of this Contract shall have minimum limits of \$1,000,000 per occurrence, \$2,000,000 per aggregate, for Personal Injury, Bodily Injury, and Property Damage Liability. Coverage shall include Premises and/or Operations, Independent Contractors, Products and/or Complete Operations, Contractual Liability and Broad Form Property Damage Endorsements. Coverage shall not contain an exclusion or limitation endorsement for Contractual Liability or Cross Liability. All insurance policies shall be issued from a company or companies duly licensed by the State of Florida. All policies shall be on a per-project occurrence made basis; the City shall not accept claims-made policies. Specific endorsements will be requested depending upon the type and scope of work to be performed.

The Engineer shall agree to maintain Professional Liability, or equivalent Errors & Omissions Liability at a limit of liability not less than \$1,000,000 Per Occurrence. When a self-insured retention (SIR) or deductible exceeds \$10,000 the City reserves the right, but not the obligation, to review and request a copy of Engineer's most recent annual report or audited financial statement. For policies written on a "Claims-Made" basis, the Engineer warrants the retroactive date equals or precedes the effective date of this Contract. In the event the policy is canceled, non-renewed, switched to an Occurrence Form, retroactive date advanced, or any other event triggering the right to purchase a Supplemental Extended Reporting Period (SERP) during the life of this Contract, Engineer shall agree to purchase a SERP with a minimum reporting period not less than three (3) years.

Except as to Workers' Compensation and Employers' Liability, said Certificate(s) and Policies shall clearly state that coverage required by the contract has been endorsed to include the City of Port St. Lucie, a political subdivision of the State of Florida, its officers, agents and employees as Additional Insured with a CG 2026-Designated Person or Organization endorsement, or similar endorsement, to its Commercial General Liability and Automobile Liability Policies. The name for the Additional Insured endorsement issued by the insurer shall read "City of Port St. Lucie, political subdivision of the State of Florida, its officers, employees and agents, and Contract #20120005. The Certificate of Insurance and Policy shall unequivocally provide thirty (30) days written notice to the City prior to any adverse changes, cancellation, or non-renewal of coverage thereunder. Said liability insurance must be acceptable by and approved by the City as to form and types of coverage. In the event that the statutory liability of the City is amended during the term of this Contract to exceed the above limits, the Engineer

shall be required, upon thirty (30) days written notice by the City, to provide coverage at least equal to the amended statutory limit of liability of the City.

Engineer shall agree by entering into this Contract to a Waiver of Subrogation for each required policy. When required by the insurer, or should a policy condition not permit an Insured to enter into a pre-loss agreement to waive subrogation without an endorsement then Engineer shall agree to notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy where a condition to the policy specifically prohibits such an endorsement, or voids coverage should Engineer enter into such an agreement on a pre-loss basis.

It shall be the responsibility of the Engineer to insure that all sub-consultants comply with the same insurance requirements referenced above.

All deductible amounts shall be paid for and be the responsibility of the Engineer for any and all claims under this Contract.

The Engineer may satisfy the minimum limits required above for Commercial General Liability, Business Auto Liability, and Employers' Liability coverage under Umbrella or Excess Liability. The Umbrella or Excess Liability shall have an Aggregate limit not less than the highest "Each Occurrence" limit for Commercial General Liability, Business Auto Liability, or Employers' Liability. When required by the insurer, or when Umbrella or Excess Liability Policy is written on "Non-Follow Form," the City shall be endorsed as an "Additional Insured."

The City, by and through its Risk Management Department, reserves the right, but not the obligation, to review and reject any insurer providing coverage.

SECTION VI PROHIBITION AGAINST FILING OR MAINTAINING LIENS AND SUITS

Subject to the laws of the State of Florida and of the United States, neither Engineer nor any subconsultant, supplier of materials, laborer or other person shall file or maintain any lien for labor or materials delivered in the performance of this Contract against the City. The right to maintain such lien for any or all of the above parties is hereby expressly waived.

SECTION VII WORK CHANGES

The City reserves the right to order work changes in the nature of additions, deletions or modifications without invalidating the Contract, and agrees to make corresponding adjustments in the Contract price and time for completion. All changes will be authorized by a written change order signed by the Director of OMB or his designee as representing the City. Work shall be changed and the contract price and completion time shall be modified only as set out in

the written change order. Any adjustment in the contract price resulting in a credit or a charge to the City shall be determined by mutual agreement of the parties.

SECTION VIII COMPLIANCE WITH LAWS

The Engineer shall give all notices required by and shall otherwise comply with all applicable laws, ordinances and codes and shall, at his own expense, secure and pay the fees and charges for all licensing required for the performance of his work. All materials furnished and work done is to comply with all local, state and federal laws and regulations.

SECTION IX ADDITIONAL REQUIREMENTS

In the event of any conflict between the terms and conditions, appearing on any purchase order or work authorization issued relative to this Contract, and those contained in this Contract and the RFP herein referenced, the terms of this Contract and RFP herein referenced shall apply.

SECTION X LICENSING

Engineer warrants that he possesses all licenses and certificates necessary to perform required work and is not in violation of any laws. Engineer warrants that his license and certificates are current and will be maintained throughout the duration of the contract.

SECTION XI SAFETY PRECAUTIONS

Precaution shall be exercised at all times for the protection of persons, including employees, and property. All plans and construction must be ADA compliant. The safety provisions of all applicable laws and building and construction codes shall be observed. The selected Proposer will submit all proposals in compliance with the 28 C.F.R. § 35.151. Where ADA and Florida Building Codes do not agree the most stringent applies.

SECTION XII ASSIGNMENT

Engineer shall not delegate or subcontract any part of the work under this Contract or assign any monies due him hereunder without first obtaining the written consent of the City.

SECTION XIII TERMINATION

If the Engineer refuses or fails to prosecute the work with such diligence as will insure its completion within the time specified in this Contract, or as may be modified in accordance with this Contract, the City by written notice to the Engineer, may terminate Engineer's rights to

proceed. On such termination, the City may take over the work and prosecute the same to completion, by contract or otherwise, and the Engineer and his sureties shall be liable, jointly and severally to the City for any additional cost incurred by it in its completion of the work.

The City may terminate this Contract with or without cause by giving the Engineer a thirty (30) days notice in writing. Upon delivery of said notice and upon expiration of the thirty (30) day period, the Engineer shall discontinue all services in connection with the performance of this Contract and shall proceed to cancel promptly all related existing third party contracts. Termination of the Contract by the City pursuant to this paragraph shall terminate all of the City's obligations hereunder. In the event of termination, the Engineer will be paid for all services rendered to the date of termination, all expenses subject to reimbursement hereunder.

SECTION XIV LAW AND VENUE

This Contract is to be construed as though made in and to be performed in the State of Florida and is to be governed by the laws of Florida in all respects without reference to the laws of any other state or nation. The venue of any action taken pursuant to this Contract shall be in St. Lucie County, Florida.

SECTION XV APPROPRIATION APPROVAL

The Engineer acknowledges that the City of Port Saint Lucie's performance and obligation to pay under this contract is contingent upon an annual appropriation by the City Council. The Engineer agrees that, in the event such appropriation is not forthcoming, this Contract may be terminated by the City and that no charges, penalties or other costs shall be assessed.

SECTION XVI RENEWAL OPTION

Not Applicable

SECTION XVII ENTIRE AGREEMENT

The written terms and provisions of this contract shall supersede all prior verbal statements of any official or other representative of the City. Such statements shall not be effective or be construed as entering into, or forming a part of, or altering in any manner whatsoever, this contract or contract documents.

**SECTION XVIII
TRUTH-IN-NEGOTIATIONS**

In accordance with the provisions of Section 287.055, Florida Statutes, the Engineer agrees to execute a truth-in-negotiations certificate and agrees that the original contract price and any additions may be adjusted to exclude any significant sums by which the contract price was increased due to inaccurate, incomplete or non-current wage rates and other factual unit costs.

**SECTION XIV
CONFLICT OF INTEREST**

The City hereby acknowledges that the Engineer may be performing professional services for private developers within the Treasure Coast area. Should a conflict of interest arise between providing services to the City and/or other clients, the Engineer shall terminate its relationship with the other client to resolve the conflict of interest. The City Manager shall determine whether a conflict of interest exists. At the time of each Project Proposal the Engineers shall disclose all of their Treasure Coast clients and related Scope of Work.

Balance of page left blank

TRUTH-IN-NEGOTIATION CERTIFICATE AND AFFIDAVIT

STATE OF FLORIDA §
COUNTY OF MARTIN §

Before me, the undersigned authority, personally appeared affiant _____ who being first duly sworn, deposes and says:

1. That the undersigned firm is furnishing this Truth in Negotiation Certificate pursuant to Section 287.055(5)(a) of the Florida Statutes for the undersigned firm to receive an agreement for professional services with the City of Port St. Lucie, St. Lucie County, Florida.

2. That the undersigned firm is a corporation which engages in furnishing professional architect and engineering services and is entering into an agreement with the City of Port St. Lucie, St. Lucie County, Florida to provide professional services for a project known as #20120005, Design and Permitting of sidewalk and pedestrian bridge on Savona Blvd.

3. That the undersigned firm has furnished the City of Port St. Lucie, St. Lucie County, Florida a detailed analysis of the cost of the professional services required for the project.

4. That the wage rate information and other factual unit cost, which the undersigned firm furnished, were accurate, complete and current at the time the undersigned firm and the City of Port St. Lucie entered into the agreement for professional services on the project.

5. That the agreement which the undersigned firm and the City of Port St. Lucie entered into on this job contained a provision that the original agreement price and any additions thereto shall be adjusted to include any significant sums by which the City of Port St. Lucie determines the agreement price was increased due to inaccurate, incomplete or non-current wage rates or other factual unit cost and that all such agreement adjustments shall be made within one (1) year following the end of the agreement.

FURTHER AFFIANT SAYETH NAUGHT

Name of Firm

By: President

The foregoing instrument was acknowledged before me by _____ who is personally known to me.

WITNESS my hand and official seal in the State of County last aforesaid this

(SEAL)

Signature

Notary Name (typed or printed)

Title or Rank

IN WITNESS WHEREOF, the parties have executed this contract at Port St. Lucie, Florida, the day and year first above written.

CITY OF PORT ST. LUCIE FLORIDA

By:

City Manager

ATTEST:

By:

City Clerk

By: _____
Authorized Representative of CAPTEC Engineering, Inc.)

State of: FLORIDA

County of: MARTIN

Before me personally appeared: _____
(please print)

Please check one:

Personally known _____

Produced Identification: _____
(type of identification)

Identification No. _____

and known to me to be the person described in and who executed the foregoing instrument, and acknowledged to and before me that he executed said instrument for the purposes therein expressed.

WITNESS my hand and official seal, this

Notary Signature

Notary Public-State of Florida at Large.

My Commission Expires
(*seal*)

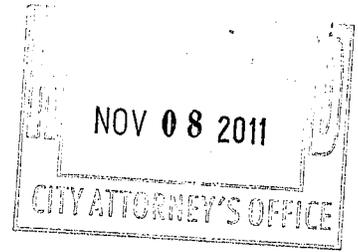
MEMORANDUM

DATE: 10/10/11

TO: Department Directors

FROM: Cheryl Shanaberger, Deputy Director of OMB

SUBJECT: 20120005 Design & permit sidewalk & pedestrian Bridge Savona
Date Needed by: 10/20/11



Attached for your review are the "draft" documents that have been prepared for the above bid. If you desire any additions, changes, or deletions, please mark where appropriate.

Next, sign, date, and return this form. If there are any changes to the attached documents, OMB will incorporate them into the bid documents.

Thank you.

DEPARTMENT has reviewed standard specifications and standard contract documents and approved:
(With Changes Without Changes)

(Pending Changes Listed)

(Date)

LEGAL has reviewed standard specifications and standard contract documents and approved:
(With Changes Without Changes)

I do not see any reference that the sidewalks be ADA compliant. That should be in the documents.

Pam E. Bates

(Pending Changes Listed)

11-9-11

(Date)

RISK MANAGEMENT has reviewed standard specifications and standard contract documents and approved:
(With Changes Without Changes)

(Pending Changes Listed)

(Date)

FINANCE has reviewed standard specifications and standard contract documents and approved:
(With Changes Without Changes)

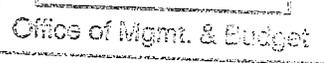
(Pending Changes Listed)

(Date)

OFFICE OF MANAGEMENT AND BUDGET has received and completed all requested changes.

OMB Confirmation: _____

(Date)



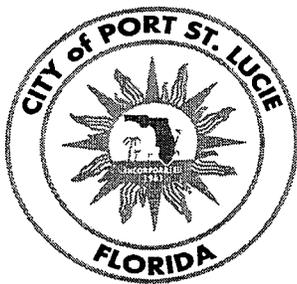
Neg ATTENDANCE

RFP #20120005

Design & Permit Sidewalk & Ped Bridge Savona

December 14, 2011 @ 2:00:00 PM

	Name (Please PRINT Legibly)	Company Name Or Entity
1	Cheryl Shanaberger	City of PSL-OMB
2	Cecilia Majewski	CITY of PSL-ENGINEERING
3	ETIENNE BOURGEOIS	CAPTEC
4	JOE CAIRA	CAPTEC
5	Royanne Chesser	City of PSL-Engineering
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CITY OF PORT ST. LUCIE
Office of Management & Budget

A CITY FOR ALL AGES

December 2, 2011

Captec Engineering, Inc.
301 NW Flagler Avenue
Stuart, Florida 34994

Re: Contract 20120005 Design & permit sidewalk and pedestrian bridge at Savona

Dear Mr. Capra:

The City is requesting to begin negotiations with Captec Engineering, Inc., as the second ranked firm for Contract #20120005 Design & permit of the sidewalk and pedestrian bridge at Savona. I have attached the contract to use for your initial proposal and would like to request that you email it to Roxanne Chesser and me by noon Friday, December 11. Please let me know what date and times from the 13th to the 14th that your firm will be available to start negotiations.

The City is looking forward to working with your firm.

Sincerely,

Cheryl Shanaberger

Cheryl Shanaberger, MPA, CPPO
Deputy Director of the
Office of Management & Budget



CITY OF PORT ST. LUCIE
Office of Management & Budget

A CITY FOR ALL AGES

December 2, 2011

Infrastructure Engineers, Inc.
The Main Street Professional Building
1069 Main Street Suite 112
Sebastian, FL 32958

Re: Contract 20120005 Design & permit sidewalk and pedestrian bridge at Savona

Mr. Hickson,

The City is in receipt of your last proposal submitted today, December 2nd. We appreciate your interest in working with the City on the Savona Boulevard Sidewalk Project. However, the scope of work presented in the proposal does not represent the needs of the project.

Therefore, at this time the City is terminating negotiations with Infrastructure Engineers, Inc. and will begin negotiations with the second ranked firm for this project.

Thank you for your time and effort.

Sincerely,

Cheryl Shanaberger

Cheryl Shanaberger, MPA, CPPO
Deputy Director of the
Office of Management & Budget

Neg ATTENDANCE
RFP #20120005
Design & Permit Sidewalk & Ped Bridge Savona
November 30, 2011 @ 2:30:00 PM

	Name (Please PRINT Legibly)	Company Name Or Entity
1	Cheryl Shanaberger	City of PSL-OMB
2	<i>Roxanne Chesser</i>	<i>City of PSL-Engineering</i>
3	<i>Brian Majewski</i>	<i>City of PSL-Engineering</i>
4	Frank Hickson	Infrastructure Engineers
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Neg ATTENDANCE

RFP #20120005

col

Design & Permit Sidewalk & Ped Bridge Savona

November 17, 2011 @ 9:00:00 AM

	Name (Please PRINT Legibly)	Company Name Or Entity
1	Cheryl Shanaberger	City of PSL-OMB
2	JOHN HOWLE	CIVILSURV DESIGN GROUP
3	Frank Mickson	Infrastructure Engineers
4	CAROL MAJEWSKI	CITY OF PSL ENGINEERING
5	Roxanne Chesser	" " " "
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1/2/11

City of Port St. Lucie
 Savona Blvd. Sidewalk and Pedestrian Bridge
 Design Services - Staff Hour Estimate
 December 9, 2011

Task: 1 Preliminary Engineering

Task	Principal (UWC)	Project Manager (EBB)	Design Mgr (RKK/HJT)	Civil Design Tech. (RH/DS)	Project Coordinator (GC)	Lump Sum/ Subconsultant Fee
Initial Utility Coordination Meetings	0	4	0	8	8	\$0.00
Project Survey	0	2	0	8	2	\$8,270.00
Geotechnical Investigation	0	2	0	4	2	\$7,845.00
Bridge Design Study	2	4	0	0	4	\$4,433.00
30% Plans / Cost Estimate	4	40	8	60	12	\$7,390.00
Environmental Assessment	2	2	0	4	4	\$3,472.70
Coordination Meetings	8	12	6	2	8	\$0.00
Totals	16	66	14	86	40	\$31,410.70
Task Total						\$53,440.70

Task: 2 Design Development

Task	Principal (UWC)	Project Manager (EBB)	Design Mgr (RKK/HJT)	Civil Design Tech. (RH/DS)	Project Coordinator (GC)	Lump Sum/ Subconsultant Fee
60% Plans	4	32	8	48	12	\$11,733.00
Bridge Hydraulics Report	2	24	8	4	4	\$220.00
Coordination Meetings	4	6	4	4	8	\$0.00
Totals	10	62	20	56	24	\$11,733.00
Task Total						\$29,573.00

Task: 3 Final Engineering

Task	Principal (UWC)	Project Manager (EBB)	Design Mgr (RKK/HJT)	Civil Design Tech. (RH/DS)	Project Coordinator (GC)	Lump Sum/ Subconsultant Fee
90% Plans	4	24	8	48	12	\$6,070.00
Tech Specs	4	12	0	8	12	\$660.00
Environmental Checklist/ Memo	2	4	0	0	2	\$110.00
Utility Coordination	0	4	0	8	8	\$440.00
Coordination Meetings	4	6	4	4	8	\$0.00
Totals	14	50	12	68	42	\$6,556.88
Task Total						\$24,566.88

9/17/11

\$500.00

submital date

2 hours meet. for public

March 30/11

City of Port St. Lucie
Savona Blvd. Sidewalk and Pedestrian Bridge
 Design Services - Staff Hour Estimate
 December 9, 2011

Task: 4 Bid Documents

	Principal (UVC)		Project Manager (EBB)		Design Mgr (RKK/HLT)		Civil Design Tech. (RH/DS)		Project Coordinator (GC)		Lump Sum/ Subconsultant Fee
	hours	fee	hours	fee	hours	fee	hours	fee	hours	fee	
100% Plan/ Estimate	4	\$600.00	24	\$3,120.00	8	\$880.00	40	\$3,400.00	8	\$440.00	\$3,870.00
Address Comments	2	\$300.00	8	\$1,040.00	0	\$0.00	4	\$340.00	4	\$220.00	\$0.00
Coordination/ Meetings	2	\$300.00	4	\$520.00	0	\$0.00	4	\$340.00	2	\$110.00	\$0.00
Totals	8	\$1,200.00	36	\$4,580.00	8	\$880.00	48	\$4,080.00	14	\$770.00	\$3,870.00
Task Total											\$15,480.00

Task: 5 Permitting

	Principal (UVC)		Project Manager (EBB)		Design Mgr (RKK/HLT)		Civil Design Tech. (RH/DS)		Project Coordinator (GC)		Lump Sum/ Subconsultant Fee
	hours	fee	hours	fee	hours	fee	hours	fee	hours	fee	
SF/WMD RW	4	\$600.00	12	\$1,560.00	0	\$0.00	4	\$340.00	12	\$660.00	\$0.00
SF/WMD ERP	4	\$600.00	12	\$1,560.00	8	\$880.00	0	\$0.00	12	\$660.00	\$5,805.60
Coast Guard Exemption	1	\$160.00	4	\$520.00	0	\$0.00	0	\$0.00	4	\$220.00	\$0.00
Indge Snake Protection Plan	0	\$0.00	1	\$130.00	0	\$0.00	0	\$0.00	1	\$65.00	\$348.50
RA/ Responses to Comments	1	\$150.00	8	\$1,040.00	0	\$0.00	2	\$170.00	2	\$110.00	\$2,255.00
Coordination/ Meetings	8	\$1,200.00	12	\$1,560.00	0	\$0.00	0	\$0.00	8	\$440.00	\$1,640.00
Totals	18	\$2,700.00	49	\$6,370.00	8	\$880.00	6	\$510.00	39	\$2,145.00	\$10,048.10
Task Total											\$22,654.10

Task: 6 LAP Coordination

	Principal (UVC)		Project Manager (EBB)		Design Mgr (RKK/HLT)		Civil Design Tech. (RH/DS)		Project Coordinator (GC)		Lump Sum/ Subconsultant Fee
	hours	fee	hours	fee	hours	fee	hours	fee	hours	fee	
Submittal Packages to City	0	\$0.00	8	\$1,040.00	0	\$0.00	4	\$340.00	0	\$0.00	\$0.00
ERC Comment Responses	0	\$0.00	8	\$1,040.00	4	\$440.00	0	\$0.00	0	\$0.00	\$0.00
Coordination/ Meetings	0	\$0.00	4	\$520.00	0	\$0.00	0	\$0.00	8	\$440.00	\$0.00
Totals	0	\$0.00	20	\$2,600.00	4	\$440.00	4	\$340.00	8	\$440.00	\$0.00
Task Total											\$3,820.00

Project Activity 7: Utilities

Technical Meetings	
Kickoff	EA 0
Preliminary Meeting	EA 0
Individual UAO Meetings	EA 0
Field Meetings	EA 0
Design Meeting	EA 0
Other Meetings	EA 0

Total Technical Meetings 0

Project Activity 7: Utilities

Estimator:

Design & Permitting of Savona Blvd Sidewalk & Pedestrian Bridge

20120005

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Kickoff Meeting	LS	1	3	3	
7.2	Identify Existing UAO(s)	LS	1	0	0	
7.3	Make Utility Contacts	LS	1	0	0	
7.4	Exception Coordination	LS	1	0	0	
7.5	Preliminary Utility Meeting	LS	1	0	0	
7.6	Individual/Field Meetings	LS	1	2	2	
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	0	0	
7.8	Subordination of Easements Coordination	LS	1	0	0	
7.9	Utility Design Meeting	LS	1	3	3	
7.10	Review Utility Markups and Work Schedules, and Processing of Schedules and Agreements	LS	1	0	0	
7.11	Utility Coordination/Followup	LS	1	0	0	
7.12	Utility Constructability Review	LS	1	0	0	
7.13	Additional Utility Services	LS	1	0	0	
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	
7.15	Contract Plans to UAO(s)	LS	1	0	0	
7.16	Certification/Close-Out	LS	1	0	0	
7.17	Other Utilities	LS	1	0	0	
7. Utilities Total					8	

*Tomorrow
morning -
Friday numbers by*

*Civil Sew \$67,000
no utility design needed*

IEI Savona Final Staff hour Estimate 11292011 (2)
7. Utilities

159,948

**CITY OF PORT SAINT LUCIE
CONTRACT #20120005**

This is a Time and Expense CONTRACT, executed this _____ day of _____, 2011 by and between the CITY OF PORT ST. LUCIE, FLORIDA, a municipal corporation, duly organized under the laws of the State of Florida, hereinafter called "City" party of the first part, Infrastructure Engineers, Inc., a Florida Corporation, located at The Main Street Professional Building, 1069 Main Street, Suite 112, Sebastian, Florida 32958, Telephone (772) 388-1661 Fax: (772) 388-1623, hereinafter called "Engineer", party of the second part.

RECITALS

In consideration of the below agreements and covenants set forth herein, the parties agree as follows:

**SECTION I
NOTICES & DESCRIPTION OF SERVICES TO BE PROVIDED**

The scope of work that the Engineer has agreed to perform pursuant to E-bid #20120005 for the design and permitting of the Savona Boulevard sidewalk and pedestrian bridge from Bougainvillea Avenue to north of the C024. All Terms and Conditions of the Master Contract #20100050 will apply.

Notices

All notices or other communications hereunder shall be in writing and shall be deemed duly given if delivered in person, sent by certified mail with return receipt request, email or fax and addressed as follows unless written notice of a change of address is given pursuant to the provisions of this Contract.

Engineer: Infrastructure Engineers, Inc.
 The Main Street Professional Building
 1069 Main Street, Suite 112
 Sebastian, Florida 32958
 Telephone (772) 388-1661 Fax: (772) 388-1623
 Frank Hickson, PE
 fhickson@infrastructureengineers.com

City Contract Administrator: Office of Management & Budget
 Att: Cheryl Shanaberger, Deputy Director OMB
 City of Port St. Lucie
 121 SW Port St. Lucie, Blvd.

Port St. Lucie, FL. 34984
Telephone 772 871 7390 Fax 772 871 7337
Email: cheryls@cityofpsl.com

City Project Manager:

Port St. Lucie Engineering Department
Ms. Roxanne Chesser
City of Port St. Lucie
121 SW Port St. Lucie Blvd.
Port St. Lucie, FL., 34985
Telephone 772 871 5186 Fax 772 871 5289
Email rchesser@cityofpsl.com

Description of Services

The project consist of the design and permitting of approximately 2,500 feet of six-foot wide concrete sidewalk on the west side of Savona Boulevard from the existing sidewalk at Bougainvillea Avenue north to the existing sidewalk north of the C-24 canal with an 8-foot wide pedestrian bridge over the C-24. This project is being completed through the FDOT Local Agency Program (LAP) and the engineer will be responsible for completing the necessary submittals and preparing the design so that the project is in compliance with FDOT LAP requirements.

The engineering services includes all survey, geotechnical, design and permitting work associated with the complete design and permitting of the sidewalk and pedestrian bridge including, but not limited to, intersection improvements; drainage modifications; driveway and culvert replacement; utility relocations; adjustments to the round-a-bout at Abingdon Avenue; permitting of the proposed work with South Florida Water Management and US Coast Guard Bridge Permit (if needed); completion of the requisite FDOT LAP documentation showing the coordination and resolution of environmental issues during the development of the plans; coordination and minor assistance with the public notification of the construction project; and minimal post design services.

The engineer shall prepare a complete set of construction plans in accordance with FDOT Plans Preparation Manual. The design shall follow the FDOT design criteria set forth in the Standard Specifications, Roadside Design Guide, and the Manual of Uniform Minimum Standards for Design, Construction, and Maintenance of Standard Streets (Florida Green Book). Additional criteria from the AASHTO A Policy on Geometric Design of Highways and Streets and the Institute of Traffic Engineers (ITE) Traffic Engineering Handbook may also be applicable. The construction plans shall include cross sections at a minimum of 200-foot intervals as well as plan and profile views.

The engineer shall coordinate the design plans with and obtain permits from all applicable agencies including, but not limited to, City Engineering Department, City Utility Systems Department, FDOT, private utility owners, SFWMD, and the US Coast Guard.

The engineer shall submit the applicable components of the LAP submittals to the City and be familiar with FDOT's electronic review process (ERC) for addressing FDOT review comments. Post design services include, but are not limited to, preparation of the construction specifications, answering questions about the bid documents during the bid process, attending the preconstruction meeting and the progress meetings, as needed, and resolve design issues identified in the field during construction.

In addition to the deliverables to FDOT and the regulatory reviews, deliverables supplied to the City shall include:

- Two (2) hard copies of 30%, 60%, and 90% Construction Drawings
- One (1) PDF copy of 30%, 60%, and 90% Construction Drawings
- Four (4) sets of signed and sealed 100% "Approved for Construction" Drawings
- One (1) PDF copy of 100% "Approved for Construction" Drawings
- One (1) AutoCad copy of 100% "Approved for Construction" Drawings
- One (1) hard copy of permit application submittals

DESIGN SERVICES BY TASKS:

Phase 1: PRELIMINARY DESIGN SERVICES

Task 1.1 Design Survey

ENG

~~Consultant~~ shall provide survey data collection for the entire route of the project. The survey shall include Right-of-Way determination and topographic data collection, both horizontal and vertical for the project. The data collection shall be performed from a minimum of 15' outside of each side of the subject roadway Right-of-Way. The vertical datum shall be consistent with the City of Port. St. Lucie's 1988 NAVD control network. The work effort shall include the following components:

- Set Horizontal Control Points along the project route
- Set Vertical Control Points along the project route
- Control for Right-of-Way resolution
- Roadway cross sections and Locations
- Driveway profiles
- Prepare a map of the survey data.

The survey data collection shall include subsequent survey efforts throughout the design process.

Task 1.2 LAP Preliminary Submittal Documents

Consultant shall assist the City with their LAP Preliminary Submittal documents with the development of the required typical section package and preliminary Engineer's Cost Estimate. The work effort for each document is described as follows:

Typical Section Package

- Engineer shall prepare a Typical Section Package document in accordance with the FDOT Plans Preparation Manual (PPM)

- A separate typical section shall be prepared for the bridge.

Preliminary Engineer's Cost Estimate

- Engineer shall update the original Engineer's Cost Estimate supplied by the City to the FDOT as part of the grant application.

Task 1.3

Subsurface Soils Exploration and Geotechnical Evaluation

- Bridge:
 - Exploration of the subsurface conditions in the area of the bridge with two, 80 foot deep SPT borings positioned one each side of the canal. In accordance with FDOT criteria, samples will be collected at 2-1/2 foot intervals throughout the depth. Boreholes will be tremie backfilled with grout.
 - A sample of the canal surface water will be collected for corrosion series testing in the laboratory along with composite soil sample from SPT borings.
- Sidewalk:
 - Auger borings, each 5-ft depths, will be drilled along the planned alignments of the at grade sidewalk. Borings will be spaced at 250-ft intervals for a total of 10 borings. The purpose of the borings is to confirm suitability of the in-place soils, pursuant to FDOT Standard Index 505. Unsuitable soils requiring removal and replacement will be delineated.
- Laboratory testing:
 - Prepare and submit a Structural Investigation Report according to Chapter 9 of the FDOT Soils and Foundation Handbook.

Phase 2: FINAL DESIGN SERVICES

Task 2.1

Initial Submittal

Engineer shall provide the City with the Initial Roadway submittal documents by March 13, 2012

The Plans shall be prepared on 11" x 17" size format and comply with the City criteria, PPM, and FDOT Design Standards. The Initial Plan submittal requirements shall be in accordance with the PPM, Volume II, Chapter 2.3.2, and include the following components:

- Key Sheet (Preliminary)
- Drainage Map (Preliminary)
- Typical Sections (Preliminary)
- Plan Sheets (Preliminary)
- Profile Sheets (Preliminary)
- Intersection Crossing Detail Sheets (Preliminary)
- Roundabout reconfiguration Plan Sheets (Preliminary)

- Cross Sections @ 200' intervals (Preliminary)
- General Notes Sheet (Preliminary)
- Traffic Control Plan (Preliminary)

The submittal documents shall also include the following:

- Update to the Engineer's Cost Estimate commensurate with the development of the Initial plan information.
- Preliminary Geotechnical Report (as referenced in Phase 1.3 above)

Task 2.2 Community Awareness/Public Information Plan

Engineer shall attend public meetings and prepare two project rendering or drawings in support of the public involvement effort.

Task 2.3 Constructability Submittal

Engineer shall provide the City with the Constructability submittal documents in accordance with the FDOT PPM and the LAP Agreement by July 17, 2012.

The Plans shall be prepared on 11" x 17" size format and comply with the City criteria, PPM, and FDOT Design Standards. The Constructability Plan submittal requirements shall be in accordance with the PPM, Volume II, Chapter 2.3.2, and include the following components:

- Key Sheet (Complete but subject to change)
- Summary of Pay Items (Complete but subject to change)
- Drainage Map (Complete but subject to change)
- Typical Sections (Complete but subject to change)
- Summary of Quantities (Complete but subject to change)
- Plan Sheets (Complete but subject to change)
- Profile Sheets (Complete but subject to change)
- Intersection Crossing Detail Sheets (Complete but subject to change)
- Drainage Structures (Complete but subject to change)
- Roadway Soils Survey (Complete but subject to change)
- Cross Sections @ 200' intervals (Complete but subject to change)
- Stormwater Pollution Prevention Plan (Complete but subject to change)
- General Notes Sheet (Complete but subject to change)
- Traffic Control Plan (Complete but subject to change)
- Utility Adjustments (Complete but subject to change)
- Signing & Pavement Markings Plans (Complete but subject to change)

The submittal documents shall also include the following:

- Update to the Engineer's Cost Estimate commensurate with the development of the Constructability plan information.
- Stormwater Design Report

Engineer shall prepare a report detailing the impacts of the stormwater improvements required to implement the construction of the proposed sidewalk system. The report shall be prepared in the typical format required by the South Florida Water Management District for permit submittal.

- Draft Specifications and Technical Special Provisions
Engineer shall prepare the standard technical specifications and special provisions required for inclusion in the Bid Documents. The technical specification and special provision shall be prepared in the standard City Bid format of said Bid Documents.
- City Review Response
Engineer shall prepare a written response to the City plan review of the 30% plan submittal.

Task 2.4 **Bidability Submittal**

Engineer shall provide the City with the Bidability plan submittal documents in accordance with the FDOT PPM and the LAP Agreement by October 22, 2012. The Plans shall be prepared on 11" x 17" size format and comply with the City criteria, PPM, and FDOT Design Standards. The Bidability Plan submittal requirements shall be in accordance with the PPM, Volume II, Chapter 2.3.2, and include the following components:

- Key Sheet (Final)
- Summary of Pay Items (Final)
- Drainage Map (Final)
- Typical Sections (Final)
- Summary of Quantities (Final)
- Plan Sheets @ 40 Scale (Final)
- Profile Sheets (Final)
- Intersection Crossing Detail Sheets (Final)
- Drainage Structures (Final)
- Roadway Soils Survey (Final)
- Cross Sections @ 200' intervals (Final)
- Stormwater Pollution Prevention Plan (Final)
- General Notes Sheet (Final)
- Traffic Control Plan (Final)
- Utility Adjustments (Final)
- Signing & Pavement Markings Plans (Final)

The submittal documents shall also include the following:

- Update to the Engineer's Cost Estimate commensurate with the development of the Bidability plan information.
- City & FDOT Review Response
Engineer shall prepare a written response to the City's plans review of the Constructability plan submittal. The response shall be in the standard Electronic review format provided by the FDOT,

Task 2.5 **Final Plans Development and Signed and sealed Plans**

Engineer shall provide the City with the Bfinal signed and sealed plans by December 17, 2012.

The submittal documents shall also include the following:

- Update to the Engineer's Cost Estimate to reflect the final plans.
- City & FDOT Review Response
Engineer shall prepare a written response to the City's plans review of the Bidability plan submittal. The response shall be in the standard Electronic review format provided by the FDOT.

Task 2.6 **Project Permitting**

Engineer shall provide permit submittals to the following agencies for the construction of the project:

- SFWMD for an Individual Permit
 - Gopher Tortoise Permitting is Not Included

Task 2.7 **Structures Plans**

Since structure plans are developed along a separate schedule and eventually tied together at the Final plans phase, the engineer shall provide similar submittals as previously described, with information pertinent to structures plans only, along the timeline established in Section II of this scope. Estimate information and efforts are included in the previously described tasks.

Task 2.8 **Post Design Services**

Engineer shall assist the city with any additional requests for information obtained from contractors during the bidding process as well as during the construction of the project.

**SECTION II
TIME OF PERFORMANCE**

Contract period shall commence _____, 2011, and terminate _____, 2012, _____ calendar days. In the event all work required in the proposal specifications has not been completed by the specified date, the Engineer agrees to provide work as authorized by the Contract Supervisor until all work specified in the proposal specifications has been rendered.

Phases 1 and 2 shall commence upon notice to proceed from the City and shall be completed by December 31, 20. Time includes 14 days for City review of each milestone submittal. The project shall be completed in accordance with the following task schedule:

<u>Task</u>	<u>Submittal Date</u>
Task 1.1: Design Survey	April 2012
Task 1.2: LAP Preliminary Submittal	March 2012
Task 1.3: Geotechnical Evaluation	March 2012
Task 2.1: Initial Plans Submittal	March 2012
Task 2.2: Community Awareness Plan	Ongoing
Task 2.3: Constructability Plan Submittal	July 2012
Task 2.4: Bidability Plan Submittal	October 2012
Task 2.5: Final Plans (signed and sealed)	December 2012
Task 2.6: Permits	December 2012
Task 2.7: Structures	
30%	May 2012
60%	August 2012
90%	November 2012
Final	December 2012
Task 2.8: Post Design Services	Construction Complete

*Line up
Schedules*

**SECTION III
COMPENSATION**

This is a Time and Expense Contract. The total amount to be paid by the City to the Engineer is based on actual time spent on this project with an estimated . All Lump Sum Amounts are Not to Exceed amounts. The City will not pay for out-of-pocket expenses (Office & Utilities), sub-consultant fees or any reimbursable expense.

The Engineering fees for Preliminary Design Task 1 are:

	Est. hours	Rate	Est. Fee
TASK 1 TOTAL			

The Engineering fees for Final Design Task 2 are:

TASK 2 TOTAL			
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The Engineering fees for Post Design Task 3 are:

	Est. hours	Rate	Est. Fee
TASK 3 TOTAL			

TOTAL =

Total is a Not to Exceed amount that will be paid at actual time and expense

Engineer VISA Payment Procedures

1. A ghost account with Bank of America (BOA) will be established for the project. The account dollar limit will be established by the City's estimate of monthly expense. The account will also have limits as per the MCC code. Reasonable total invoice amounts will also be established. The ghost account will be entered with the proper expense codes. The Engineer will be provided this ghost account number to process payments.
2. A purchase order to the Engineer for this project will be issued.
3. The Engineer will send the project manager by the 1st of each month a detail estimated pay request listing employee title, estimated hours of work, hourly rate and related tasks to be completed that will be accomplished by the 25th of the same month.

Project Activity 7: Utilities

Estimator: D. Chester

Savona Blvd Sidewalk & Pedestrian Bridge Design - City of Port St. Lucie

N/A

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Kickoff Meeting	LS	1	8	8	1 person x 1 meeting (with travel)
7.2	Identify Existing UAO(s)	LS	5	1	5	5 utilities x 1 hrs ea
7.3	Make Utility Contacts	LS	5	2	10	1 hr per contact x two contacts
7.4	Exception Coordination	LS	1	0	0	
7.5	Preliminary Utility Meeting	LS	1	4	4	
7.6	Individual/Field Meetings	LS	1	8	8	Utility conflicts/field review meeting
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	0	0	
7.8	Subordination of Easements Coordination	LS	1	0	0	
7.9	Utility Design Meeting	LS	1	0	0	
7.10	Review Utility Markups and Work Schedules, and Processing of Schedules and Agreements	LS	1	5	5	
7.11	Utility Coordination/Followup	LS	1	0	0	
7.12	Utility Constructability Review	LS	1	0	0	
7.13	Additional Utility Services	LS	1	0	0	
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	
7.15	Contract Plans to UAO(s)	LS	1	0	0	
7.16	Certification/Close-Out	LS	1	0	0	
7.17	Other Utilities	LS	1	0	0	
7. Utilities Total					40	

ESTIMATE OF WORK EFFORT AND COST - SUBCONSULTANT

Name of Project: Savona Boulevard Sidewalk and Pedestrian Bridge from Bougainvillea Avenue to north of the C-24.
 County: Hendry
 FPN: 0
 Consultant Name: Miller Legg and Associates
 Consultant No.: OH-00012
 Date: 1/15/2011
 Estimator: Christopher Keller

Staff Classification	Total Staff Hours From Firm	Sr	Project Landscape	Landscape Designer	Secretary/ clerical	NA	NA	SH By Activity	Salary Cost By Activity	Average Rate Per Task											
																					\$43.34
3. Project General and Project Common Tasks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
4. Roadway Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
5. Roadway Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
6. Drainage Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
7. Utilities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
8. Environmental Permits, Compliance & Clearances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
9. Structures - Misc. Tasks, Dwg's, Non-Tech.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
11. Structures - Temporary Bridge	0	0	0	0	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	0	0	0	\$0	#DIV/0!	
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
18. Structures - Miscellaneous	0	0	0	0	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	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	0	0	0	\$0	#DIV/0!	
21. Signalization Analysis	0	0	0	0	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	0	0	0	\$0	#DIV/0!	
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
24. Lighting Plans	0	0	0	0	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	0	0	0	\$0	#DIV/0!	
26. Landscape Architecture Plans	48	5	41	0	2	0	0	0	0	0	0	0	0	0	0	0	48	\$1,572	\$32.76	#DIV/0!	
27. Survey (Field & Office Support)	0	0	0	0	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	0	0	0	\$0	#DIV/0!	
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
30. Geotechnical	0	0	0	0	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	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	0	0	0	\$0	#DIV/0!	
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	#DIV/0!	
Total Staff Hours	48	5	41	0	2	0	48	\$1,572.25	\$32.76	#DIV/0!											
Total Staff Cost		\$216.70	\$1,316.51	\$0.00	\$39.04	\$0.00															

Notes:
 1. This sheet to be used by Subconsultant to calculate its fee.

SALARY RELATED COSTS:
 OVERHEAD: 242.97%
 OPERATING MARGIN: 12%
 FCCM (Facilities Capital Cost Money): 0.895%
 EXPENSES: 3.92%
GRAND TOTAL ESTIMATED FEE: \$5,656.69

Check # \$1,572.25

Project Activity 26: Landscape Architecture Plans

Estimator: Christopher Keller

Savona Boulevard Sidewalk and Pedestrian Bridge
from Bougainvillea Avenue to north of the C-24.

Task No.	Task	Scale	Units	No. of Units	Hours/Unit	No. of Sheets	Total Hours	Comments
26.1	Key Sheet		Sheet	0	0	0	0	Part of roadway set
26.2	Tabulation of Quantities		Sheet	1	4	1	4	Tabulation of Quantities
26.3	General Notes		Sheet	1	2	1	2	General Notes
26.4	Tree and Vegetation Inventory, Protection and Relocation Plans		Sheet	0	0	0	0	Not anticipated
26.5	Planting Plans For Linear Roadway Projects		Sheet	1	8	1	8	1 plan
26.6	Planting Plans (Interchanges and Toll Plazas)		Sheet	0	0	0	0	Not applicable
26.7	Planting Details and Notes		Sheet	1	4	1	4	Planting Details and Notes
26.8	Irrigation Plans for Linear Roadway Project		Sheet	1	8	1	8	1 sheet
26.9	Irrigation Plans for Interchange and Toll Plazas		Sheet	0	0	0	0	Not applicable
26.10	Irrigation Details and Notes		Sheet	1	2	1	2	Irrigation Details and Notes
26.11	Hardscape Plans		Sheet	0	0	0	0	Not anticipated
26.12	Hardscape Details and Notes		Sheet	0	0	0	0	Not anticipated
26.13	Maintenance Plan		Sheet	1	8	1	8	8.5 x 11 format
26.14	Cost Estimate		LS	1	8		8	Preliminary and Final estimate
Landscape Architecture Plans Technical Hours Subtotal						7	44	
26.15	Quality Assurance/Quality Control		LS	%	5%		2	Quality Assurance/Quality Control
26.16	Supervision		LS	%	5%		2	Supervision
26. Landscape Architecture Plans Total						7	48	

Client: Infrastructure Engineers
 Site: Savona Sidewalk & Pedestrian Bridge
 Location: City of Port St. Lucie
 Proposal Number: 2-0716-P01

Name of the Task	Wetland Delineation		Gopher Tortoise Survey & Other Listed Species Habitat Assessment and Agency Coordination		Ecological Letter Report		TASK 4		PROPOSAL		
	RATE	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount	Hrs	Amount
LABOR											
Principal	\$190	0	\$0.00	0	\$0.00	2	\$380.00	0	\$0.00	2	\$380.00
Chief Engineer / Director / Associate	\$180	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Senior, Professional II	\$165	3	\$495.00	2	\$330.00	16	\$2,640.00	0	\$0.00	21	\$3,465.00
Senior, Professional I	\$135	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Project Professional II	\$110	0	\$0.00	20	\$2,200.00	0	\$0.00	0	\$0.00	20	\$2,200.00
Project Professional I	\$100	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Staff Professional II	\$90	14	\$1,260.00	0	\$0.00	0	\$0.00	0	\$0.00	14	\$1,260.00
Staff Professional I	\$80	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Technician II	\$70	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Technician I	\$60	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Sr. GIS Analyst	\$110	0	\$0.00	0	\$0.00	8	\$880.00	0	\$0.00	8	\$880.00
CADD/GIS	\$80	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Admin Asst / Clerical	\$50	0	\$0.00	0	\$0.00	2	\$100.00	0	\$0.00	2	\$100.00
TOTAL LABOR		17	\$1,755.00	22	\$2,530.00	28	\$4,000.00	0	\$0.00	67	\$8,285.00
SUBCONTRACTORS	Price	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount
	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
TOTAL SUBCONTRACTORS +	Mark up	0%	\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
Other Direct Costs (ODC)	Price	Units	Amount	Units	Amount	Units	Amount	Units	Amount	Units	Amount
Reports (color copies per page)	\$1.10	0	\$0.00	6	\$6.60	24	\$26.40	0	\$0.00	30	\$33.00
	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
	0	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Total Other Direct Costs (ODC) +	Mark up	0%	\$0.00		\$6.60		\$26.40		\$0.00		\$33.00
FIXED COSTS-(In House Direct Expenses)											
Water Level Indicator	\$28.75	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
OVA/FID	\$175.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Peristaltic Pump	\$28.75	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
YSI Multimeter	\$115.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Turbidity Meter	\$28.75	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
ORP Meter	\$23.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
DO Meter	\$28.75	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Measuring Wheel	\$5.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Hand Auger	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Survey Equipment	\$28.75	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Trimble GPS (per day)	\$230.00	1	\$230.00	1	\$230.00	0	\$0.00	0	\$0.00	2	\$460.00
Mileage	\$0.75	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
Vehicle (per day)	\$65.00	1	\$65.00	1	\$65.00	0	\$0.00	0	\$0.00	2	\$130.00
Field Supplies	\$25.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
TOTAL FIXED COSTS			\$295.00		\$295.00		\$0.00		\$0.00		\$590.00
TOTAL LABOR			\$1,755.00		\$2,530.00		\$4,000.00		\$0.00		\$8,285.00
TOTAL SUBCONTRACTORS			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00
TOTAL ODC			\$0.00		\$6.60		\$26.40		\$0.00		\$33.00
TOTAL FIXED COSTS			\$295.00		\$295.00		\$0.00		\$0.00		\$590.00
TOTAL LABOR AND EXPENSES			\$2,050.00		\$2,831.60		\$4,026.40		\$0.00		\$8,908.00

Project Activity 8: Environmental Permits, Compliance and Clearances

Estimator: Savona Sidewalk and Pedestrian Bridge
 Updated on: 12/4/5-1-52-01

Task No.	Task	Units	No of Units	Hours/ Units	Total Hours	Comments
8.1	Preliminary Project Research	LS	1	2	2	
8.2	Complete Permit Involvement Form	LS	1	0	0	Research wetland and wildlife occurrence data
8.3	Establish Wetland Jurisdictional Lines and Assessments	LS	1	11	11	Delineate extents of wetlands and other surface waters within existing and/or proposed right of way
8.4	Agency Verification of Wetland Data	LS	1	4	4	Review wetland line data with SPWMD and provide memo documenting meeting
8.5	Complete And Submit All Required Permit Applications	LS	1	27	27	Prepare technical letter report documenting ERP Section E environmental review criteria including occurrences of wetlands and other surface waters and proposed wetland or surface water impacts; no mitigation requirement is anticipated therefore no function UMAM assessment is included
8.6	Prepare Dredge and Fill Sketches	LS	1	1	1	No USACE PCN & mitigation plan is required w/ less than 0.1 ac impact. Coordinate with design engineer regarding type of Nationwide activity will occur under.
8.7	Prepare USCG Permit Sketches	LS	1	0	0	
8.8	Prepare Water Management District Right-of-Way Occupancy Sketches	LS	1	0	0	
8.9	Prepare Coastal Construction Control Line (CCCL) Permit Application	LS	1	0	0	
8.10	Prepare Tree Permit Information	LS	1	0	0	
8.11	Mitigation Coordination and Meetings	LS	1	0	0	
8.12	Mitigation Design	LS	1	0	0	
8.13	Environmental Clearances and Technical Support	LS	1	22	22	Gopher tortoise survey and USFWS coordination regarding wood storks
8.14	Environmental Clearances and Reevaluations	LS	1	0	0	
8.15	Other Environmental Permits	LS	1	0	0	
Environmental Permits, Compliance and Clearances Technical Subtotal						67
8.16	Technical Meetings	LS	1	0	0	Meetings are listed below
8.17	Quality Assurance/Quality Control	LS	%	0%	0	
8.18	Supervision	LS	%	0%	0	
Environmental Permits, Compliance and Clearances Nontechnical Subtotal						0
8.19	Coordination	LS	%	0%	0	
8. Environmental Permits, Compliance and Clearances Total						67

Technical Meetings

WMD	EA	0	0	0
ACCE	EA	0	0	0
USCG	EA	0	0	0
USFWS	EA	0	0	0
FRMCC	EA	0	0	0
FDOIT	EA	0	0	0
Other Meetings	EA	0	0	0
Subtotal Technical Meetings				
Progress Meetings	EA	0	0	0
Phase Review Meetings	EA	0	0	0
Total Meetings				
0				

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

Subject: Fwd: City of PSL - Miller Legg - SUE price per unit
Date: Wednesday, November 16, 2011 8:15:50 AM Eastern Standard Time
From: Frank Hickson
To: acrews@cfl.rr.com

Sent from my iPhone

Frank Hickson, PE
Infrastructure Engineers, Inc.
Cell 407.973.0133

Begin forwarded message:

From: Kerri Ingham <kingham@infrastructureengineers.com>
Date: November 15, 2011 3:08:17 PM EST
To: Frank Hickson <FHickson@infrastructureengineers.com>
Subject: City of PSL - Miller Legg - SUE price per unit

Frank,

Here is the SUE info...utility coordination and landscape rates should follow shortly.

Kerri

From: David Reyes [mailto:DReyes@millerlegg.com]
Sent: Tuesday, November 15, 2011 2:49 PM
To: Kerri Ingham; Kathie Brennan
Cc: Cara Pasquale; Dana Chester; Adam Swaney
Subject: RE: Congratulations on ranking #1 for PSL!

Kerri congratulations on your win!!
Below you will find our rates for SUE services.

Please review and get back to me with any questions or concerns.

Sub Surface Utility Engineering

Rate

Designation (Utility Location)	\$1,240/Day
Test Holes (Minimum of 6)	
Soft Surface (A)	\$ 250/ea.
Hard Surface (A)	\$ 450/ea.
(A) If less than 6 test holes, a \$500 mobilization fee will apply.	

Thanks
David Reyes
Associate, Surveying and Mapping
Miller Legg

Locates

2005 Vista Parkway, Suite 100
West Palm Beach, Florida 33411
Cell: (772) 453-6157

Direct: (561) 537-4615

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Infrastructure Engineers, Inc.
1069 Main Street, Suite 112
Sebastian, Florida 32958

November 15, 2011
Project No. PSL-11-3400

Attention: Mr. Frank Hickson, P.E ...*via email* (fhickson@infrastructureengineers.com)
Project Manager

Subject: ***Geotechnical Engineering Services Proposal***
Design and Permitting of Savona Boulevard Sidewalk and Pedestrian Bridge
from Bougainvillea Avenue to North of the SFWMD C-24 Canal
Port St. Lucie, Florida

Dear Mr. Hickson:

INTRODUCTION

Pursuant to your request, Dunkelberger Engineering & Testing, Inc. (Dunkelberger) is pleased to submit this proposal to provide geotechnical engineering services for the subject project. In summary, our work will involve completing a geotechnical study, pursuant to Florida Department of Transportation guidelines, in support of your design of the project.

PROJECT INFORMATION

The project involves the design and construction of about 2,500 lineal feet of at-grade sidewalk along the west side of Savona Boulevard from Bougainvillea Avenue north to the South Florida Water Management District's C-24 Canal. A pedestrian bridge is to be designed and constructed across the C-24 Canal connecting the new sidewalk to existing sidewalk.

Based on our reconnaissance of the project alignment, we anticipate minimal cutting and/or filling will be needed for the sidewalk or bridge abutments. Given the width of the C-24 Canal (i.e., bridge/span length) we anticipate that the pedestrian bridge will have three spans each supported by driven, precast, prestressed (PPC) concrete piles with sizes on the order of 14 to 18-inches square.

SCOPE OF SERVICES

Our geotechnical study will be conducted to characterize the surface conditions along the alignment of the new sidewalk and within the area of the new bridge foundations. More specifically, our geotechnical work for this project will consist of the following components:

Field Exploration

Structure (Bridge) Exploration

1. Exploration of the subsurface conditions in the area of the bridge with two, 80-foot deep SPT borings positioned on each side of the canal. Based on prior work in the area, we have assumed the vertical distance from the top-of-bank ground surface to the canal bottom to be on the order of 30 feet for establishing our boring depths. In accordance with FDOT criteria, SPT samples will be collected at 2½-foot intervals throughout the depth of the bridge borings. The boreholes will be tremie backfilled in a bottom-to-top fashion with grout upon completion.
2. A sample of the C-24 Canal's surface water will be collected for corrosion series testing in our laboratory along with a composite soil sample from the SPT borings.

Sidewalk Exploration

1. Auger borings, each 5 feet in depth, will be drilled along the planned alignment of the at-grade sidewalk. The auger borings will be spaced at approximate 250-foot horizontal centers providing for a total of 10, 5-foot deep borings. The purpose of these borings is to confirm the suitability of the in-place soils, pursuant to FDOT Standard Index 505, for direct support of the sidewalk. Unsuitable soils requiring removal and replacement will be delineated.

Laboratory Testing

1. Laboratory examination (classification) of the material samples and physical property tests of same to establish their plasticity, gradation, organic content, moisture content, and corrosivity.

Reporting

1. Preparation and submittal of a Structure Investigation Report in general accordance with the guidelines detailed in Chapter 9 of FDOT's *Soils and Foundation Handbook (2010)*. This will include:
 - a. estimating seasonal high water levels for the auger borings, delineation of identified unsuitable soils, and providing construction recommendations.
 - b. evaluating shallow and deep foundation alternatives for support of the bridge abutments.
 - c. developing axial capacity versus depth plots for 14 and 18-inch square PPC piles.
 - d. establishing soil parameters for lateral pile analysis.
 - e. preparing foundation construction recommendations, including the need for pre-drilling or other such installation considerations if driven pilings are required.

SCHEDULE AND DELIVERABLES

We are prepared to begin providing the required services immediately upon your notice to proceed. We estimate that our schedule for the geotechnical work will be as follows:

- Project start-up, boring layout and utility clearance – 5 days
- Field exploration – 1 week
- Laboratory testing – 1 week
- Engineering analysis, preparation and submittal of draft report – 2 weeks

Three copies of the final report bearing the signature and seal of a State of Florida registered professional engineer will be provided.

Soil samples retrieved from the field drilling operations will be retained for a period of 90 days following issuance of the final report unless other storage requirements are agreed to in advance.

COMPENSATION, PAYMENT AND OTHER TERMS

Based upon our understanding of the project requirements, we propose to provide our services for a fixed fee of **\$13,354**. A breakdown of the work scope and corresponding fee is presented on Attachment A this proposal.

Invoices are due and payable upon receipt. Invoices not paid within 30 days of date rendered will be assessed a finance charge of one percent per month, or fraction thereof, for each month beyond 30 days past due. Invoices not paid within 60 days will result in Dunkelberger stopping work until such invoices rendered are paid in full. Invoices not paid within 90 days of the date rendered will be referred for collection. Client will be responsible for all expenses incurred by Dunkelberger in the collection of any unpaid invoice, including the actual attorneys' fees and costs charged by our legal counsel.

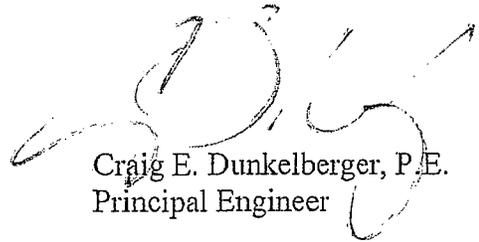
Other terms and conditions pertaining to the engagement of our services are discussed in the General Conditions, Attachment B. The General Conditions are hereby incorporated into and made a part of this proposal.

_____oOo_____

We trust that this information is clear and understandable. To acknowledge acceptance of the terms and conditions of this agreement, kindly sign the provided acceptance copy and return it, intact, to our Port St. Lucie office. Please feel free to call if you need any clarification regarding this matter, or if you need any additional information.

Very truly yours,

DUNKELBERGER ENGINEERING & TESTING, INC.



Craig E. Dunkelberger, P.E.
Principal Engineer

Kevin E. Aubry, P.E.
Geotechnical Services Manager

Attachments: A - Fee Breakdown
B - General Conditions

Accepted this _____ day of _____, 2011.

Company

Signature

Name and Title

GENERAL CONDITIONS

"Dunkelberger Engineering & Testing, Inc. (Dunkelberger) and Client Agreement"

1. **Payment Terms:** Invoices are due and payable upon receipt. Invoices not paid within 30 days of date rendered will be assessed a finance charge of one percent per month, or fraction thereof, for each month beyond 30 days past due. Invoices not paid within 60 days will result in Dunkelberger stopping work until such invoices rendered are paid in full. Invoices not paid within 90 days of the date rendered will be referred for collection. Client will be responsible for all expenses incurred by Dunkelberger in the collection of any unpaid invoice, including the actual attorneys' fees and costs charged by our legal counsel.
2. **Insurance:** Dunkelberger maintains Workers' Compensation and Employer's Liability Insurance in conformance with applicable State law. In addition, Dunkelberger maintains Professional Liability Insurance with Limits of \$2,000,000 each claim, \$3,000,000 aggregate; General Liability Insurance with Limits of \$1,000,000 each occurrence, \$2,000,000 aggregate; Automobile Liability Insurance with a Limit of \$1,000,000 each occurrence and Commercial Umbrella Excess Liability Insurance with Limits of \$4,000,000 each occurrence, \$4,000,000 aggregate. A certificate of insurance can be supplied evidencing such coverage, upon request.
3. **Access to Site:** Client will arrange and provide such access to the site as is necessary for Dunkelberger to perform the work. Dunkelberger shall take reasonable measures and precautions to minimize damage to the site and any improvements located thereon as the result of its work or the use of its equipment; however, Dunkelberger has not included in its fee the cost of restoration of damage which may occur. If Client desires or requires Dunkelberger to restore the site to its former condition, upon written request Dunkelberger will perform such additional work as is necessary to do so and Client agrees to pay to Dunkelberger the cost thereof.
4. **Damage to existing man-made objects:** Unless Dunkelberger has assumed in writing the responsibility of locating subsurface or latent conditions, Client agrees to indemnify and save Dunkelberger harmless from all claims, suits, losses, costs and expenses, including reasonable attorneys' fees as a result of personal injury, death or property damage occurring with respect to Dunkelberger's performance of its work and arising from subsurface or latent conditions or damage to subsurface or latent objects, structures, lines or conduits where the actual or potential presence and location thereof was not revealed to Dunkelberger by Client.
- 5a. **Warranty:** Dunkelberger's services will be performed, its findings obtained, and its reports prepared in accordance with its proposal, Client's acceptance thereof, these General Conditions, and with generally accepted principles and practices. In performing its professional services, Dunkelberger will use that degree of care and skill ordinarily exercised under similar circumstances by members of its profession. This warranty is in lieu of all other warranties or representations, either expressed or implied.
- 5b. **Risk Allocation:** Should Dunkelberger or any of its professional employees be found to have been negligent in the performing of professional services or work or to have made and breached any expressed or implied warranty, representation or contract, Client, all parties claiming through Client, and all parties claiming to have in any way relied upon Dunkelberger's services or work agree that the maximum aggregate amount of the liability of Dunkelberger, its officers, employees, and agents shall be limited to \$50,000 or the total amount of the fee paid to Dunkelberger for its work performed with respect to the project, whichever amount is greater. Client expressly agrees that it has received consideration for this agreement to limit liability in the form of a lower contract price.

Client may, upon written request received within five days of Client's acceptance hereof, increase the limit of Dunkelberger's liability to \$500,000 or the amount of Dunkelberger's fee, whichever is the greater, by agreeing to pay Dunkelberger a sum equivalent to an additional amount of 5% of the total fee, or \$400, whichever is greater. This charge is not to be construed as being a charge for insurance of any type but is increased consideration for the greater liability involved.
6. **Indemnity:** Subject to the above limitations, Dunkelberger agrees to indemnify and hold Client harmless from and against any and all claims, suits, costs and expenses including reasonable attorney's fees and court costs arising out of Dunkelberger's negligence to the extent of Dunkelberger's negligence. Client shall provide the same protection to the extent of its negligence. In the event that Client shall bring any suit or claim against Dunkelberger, the Client shall pay to Dunkelberger the costs and expenses incurred by Dunkelberger to answer and defend it, including reasonable attorneys' fees and court costs, to the extent that Dunkelberger shall prevail in such suit.
7. **Governing Law:** This agreement shall be governed in all respects by the laws of the State of Florida.

Project Name:		Design and Permitting of Savona Boulevard Sidewalk and Pedestrian Bridge		Dunkelberger Engineering & Testing, Inc.		607 NW Commodory Cove		Port St. Lucie, Florida 34986		Contact: Craig Dunkelberger, P.E.	
Client:		Infrastructure Engineers, Inc.		PSL-11-3400		November 15, 2011		(772) 343-9787		FAX (772) 343-9404	
Date:		November 15, 2011									
Geotechnical Services		Qty	Unit	Contract Amount	Progress-Invoice-Qty	Progress-Invoice-Amount	Total-To-Date-Qty	Total-To-Date-Amount	Remaining on Contract-Qty	Remaining on Contract-Amount	
I. Field Exploration											
Drill Rig Mobil/Demob utilize truck mounted drilling rig to drill a boring on each side of the canal along the top-of-bank.											
SPT boring - 2 endbent borings at 80 feet deep each (160 total feet) with samples collected at 2'-1/2' centers											
0' to 50'	100	LF	\$13.25	\$1,325.00	0	\$0.00	0	\$0.00	100	\$1,325.00	
50' to 100'	60	LF	\$14.50	\$870.00	0	\$0.00	0	\$0.00	60	\$870.00	
Additional SPT Samples	28	EA	\$25.00	\$700.00	0	\$0.00	0	\$0.00	28	\$700.00	
Casing allowance											
0' to 50'	0	LF	\$5.50	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	
50' to 100'	0	LF	\$6.60	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	
100' to 125'	0	LF	\$11.00	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	
Grout Borehole											
0' to 50'	100	LF	\$5.50	\$550.00	0	\$0.00	0	\$0.00	100	\$550.00	
50' to 100'	60	LF	\$6.60	\$396.00	0	\$0.00	0	\$0.00	60	\$396.00	
100' to 125'	0	LF	\$8.80	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	
Auger Borings for Sidewalk - 1 boring for every 250 ft each 5 ft deep (2500 ft total)											
Auger Boring	50	LF	\$10.00	\$500.00	0	\$0.00	0	\$0.00	50	\$500.00	
Sr. Engineering Tech.											
Field mark test borings, coordinate utility clearance, and collect sample of C-24 canal water for laboratory corrosion series testing.											
8	HR		\$62.00	\$496.00	0	\$0.00	0	\$0.00	8	\$496.00	
Subtotal \$5,112.00											
II. Laboratory Testing											
Staff Scientist (classification)											
4	HR		\$75.00	\$300.00	0	\$0.00	0	\$0.00	4	\$300.00	
Particle-size Analysis											
6	EA		\$330.00	\$1,980.00	0	\$0.00	0	\$0.00	6	\$1,980.00	
Percent Finer than No. 200											
5	EA		\$33.00	\$165.00	0	\$0.00	0	\$0.00	5	\$165.00	
Organic Content											
5	EA		\$33.00	\$165.00	0	\$0.00	0	\$0.00	5	\$165.00	
Liquid Limit											
3	EA		\$50.00	\$150.00	0	\$0.00	0	\$0.00	3	\$150.00	
Plastic Limit											
3	EA		\$50.00	\$150.00	0	\$0.00	0	\$0.00	3	\$150.00	
Corrosivity Testing											
2	EA		\$160.00	\$320.00	0	\$0.00	0	\$0.00	2	\$320.00	
1 corrosion series (pH, chlorides, sulfates, resistivity) each on a soil and surface water sample.											
Subtotal \$1,580.00											
III. Engineering & Reporting											
Sr. Geotechnical Engineer											
8	HR		\$165.00	\$1,240.00	0	\$0.00	0	\$0.00	8	\$1,240.00	
Project Engineer											
40	HR		\$121.00	\$4,840.00	0	\$0.00	0	\$0.00	40	\$4,840.00	
CADD											
6	HR		\$57.00	\$342.00	0	\$0.00	0	\$0.00	6	\$342.00	
Admin/Clerical											
4	HR		\$60.00	\$240.00	0	\$0.00	0	\$0.00	4	\$240.00	
Subtotal \$6,662.00											
Estimated Total \$13,354.00											
MAXIMUM LIMITING AMOUNT: \$13,354											
NOTE: 1) Unit fees presented herein are in accordance with Dunkelberger's current City of Port St. Lucie Contract #200700116 Fee Schedule											

ESTIMATE OF WORK EFFORT AND COST - PRIME CONSULTANT

Name of Project: Design & Permitting of Savona Blvd Sidewalk & Pedestrian Bridge
 County: Port St. Lucie
 FPN: 20120005
 NA

Consultant Name: Infrastructure Engineers, Inc.
 Consultant No.: 10289F100.01
 Date: 11/16/11
 Estimator: Christopher Howard, PE
 Per: Frank Hickson, PE

Staff Classification	Total Staff Hours From FPM Summary	Chief Engineer	Senior Engineer	Project Engineer	Engineer Intern	CADD Tech	Clerical	Project Manager	Staff Classification 8	Staff Classification 9	Staff Classification 10	Staff Classification 11	Staff Classification 12	SH Activity	Salary Cost By Activity	Average
																Rate Per Task
3. Project General and Project Common Tasks	401	40	60	59	60	60	60	60	0	0	0	0	0	389	\$50,258	\$126,568
4. Roadway Analysis	84	0	21	0	59	0	0	4	0	0	0	0	0	84	\$9,659	\$114,998
5. Roadway Plans	141	7	14	14	42	56	0	7	0	0	0	0	0	140	\$14,848	\$1,066,055
6. Drainage Analysis	63	0	44	16	0	0	0	3	0	0	0	0	0	63	\$9,383	\$1,489,944
7. Utilities	10	0	5	0	0	0	0	0	0	0	0	0	0	10	\$1,834	\$183,433
8. Environmental Permits, Compliance & Clearances	4	0	0	0	0	0	0	0	0	0	0	0	0	4	\$0	\$0
9. Structures - Misc. Tasks, Dvgs, Non-Tech.	101	20	15	26	25	15	0	0	0	0	0	0	0	101	\$12,289	\$1,277,700
10. Structures - Bridge Development Report	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
11. Structures - Pedestrian Bridge	166	8	25	58	42	33	0	0	0	0	0	0	0	166	\$10,471	\$1,111,270
12. Structures - Short Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
13. Structures - Medium Span Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
14. Structures - Structural Steel Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
15. Structures - Segmental Concrete Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
16. Structures - Movable Span	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
17. Structures - Retaining Walls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
18. Structures - Miscellaneous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
19. Signing & Pavement Marking Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
20. Signing & Pavement Marking Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
21. Signalization Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
22. Signalization Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
23. Lighting Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
24. Lighting Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
25. Landscape Architecture Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
26. Landscape Architecture Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
27. Survey (Field & Office Support)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
28. Photogrammetry	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
29. Mapping	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
30. Geotechnical	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
31. Architecture Development	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
32. Noise Barriers Impact Design Assessment	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
33. Intelligent Transportation Systems Analysis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
34. Intelligent Transportation Systems Plans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0
Total Staff Hours	970	80	184	173	228	164	60	74	0	0	0	0	0	983	\$117,350.43	\$121,888
Total Staff Cost		\$16,720.00	\$29,044.40	\$19,332.75	\$21,167.52	\$12,285.60	\$2,770.80	\$16,031.38	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$117,350.43	\$121,888

Survey Field Days by Subconsultant
 4 - Prime Consultant
 4 - Prime Consultant

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

\$165,000

SALARY RELATED COSTS: \$117,350.43
 OVERHEAD: \$0.00
 OPERATING MARGIN: 0%
 FCOB (Facilities Capital Cost Money): 0%
 EXPENSES: 10.00%
 Survey (Field - if by Prime) @ 4-man crew days \$ /day
 SUBTOTAL ESTIMATED FEE: \$129,083.47
 Subconsultant: CIVISURV \$105,930.00
 Subconsultant: Dunkel-beyer \$13,354.00
 Subconsultant: E-Science \$9,998.00
 Subconsultant: ML-SUE \$6,500.00
 Subconsultant: ML-LS \$25,000.00
 Subconsultant: ML-UC \$0.00
 Subconsultant: Sub 6 \$0.00
 Subconsultant: Sub 8 \$0.00
 Subconsultant: Sub 9 \$0.00
 Subconsultant: Sub 10 \$0.00
 Subconsultant: Sub 11 \$0.00
 Subconsultant: Sub 12 \$0.00
 SUBTOTAL ESTIMATED FEE: \$294,434.16
 Geotechnical Field and Lab Testing \$0.00
 SUBTOTAL ESTIMATED FEE: \$294,434.16
 Optional Services \$0.00
 GRAND TOTAL ESTIMATED FEE: \$294,434.16

\$5,000

Project Activity 4: Roadway Analysis

Estimator:

Design & Permitting of Savona Blvd Sidewalk & Pedestrian Bridge
20120005

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
4.1	Typical Section Package	LS	1	4	4	sign and seal typical package
4.2	Pavement Design Package	LS	1	0	0	
4.3	Access Management	LS	1	0	0	
4.4	Horizontal/Vertical Master Design Files	LS	1	8	8	provided by civil Surv
4.5	Cross Section Design Files	LS	1	8	8	provided by civil Surv
4.6	Traffic Control Analysis	LS	1	0	0	provided by civil Surv
4.7	Master TCP Design Files	LS	1	0	0	provided by civil Surv
4.8	Design Variations and Exceptions	LS	1	0	0	none anticipated
4.9	Design Report	LS	1	0	0	
4.10	Computation Book & Quantities	LS	1	20	20	
4.11	Cost Estimate	LS	4	8	32	4 estimates
4.12	Technical Special Provisions	LS	1	0	0	
4.13	Other Roadway Analysis	LS	1	0	0	
Roadway Analysis Technical Subtotal					72	
4.14	Field Reviews	LS	1	4	4	
4.15	Technical Meetings	LS	1	0	0	Meetings are listed below
4.16	Quality Assurance/Quality Control	LS	%	5%	4	
4.17	Independent Peer Review	LS	%	0%	0	
4.18	Supervision	LS	%	3%	2	
Roadway Analysis Nontechnical Subtotal					10	
4.19	Coordination	LS	%	3%	2	
4. Roadway Analysis Total					84	

Project Activity 4: Roadway Analysis

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
Technical Meetings						
	Typical Section	EA	0	0	0	
	Pavement	EA	0	0	0	
	Access Management	EA	0	0	0	
	15% Line and Grade	EA	0	0	0	
	Driveways	EA	0	0	0	
	Local Governments (cities, counties, MPO)	EA	0	0	0	
	Work Zone Traffic Control	EA	0	0	0	
	30/60/90/100% Comment Review Meetings	EA	0	0	0	
	Other Meetings	EA	0	0	0	
	Subtotal Technical Meetings				0	
	Progress Meetings (if required by FDOT)	EA	0	0	0	
	Phase Review Meetings	EA	0	0	0	
	Total Meetings				0	

Carries to 4.15

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

Project Activity 5: Roadway Plans

Estimator:

Design & Permitting of Savona Blvd Sidewalk & Pedestrian Bridge

20120005

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments
5.1	Key Sheet		Sheet	1	4	1	4	
5.2	Summary of Pay Items Including Quantity Input		Sheet	1	12	1	12	
5.3	Drainage Map		Sheet	2	16	2	32	required for permit
5.4	Interchange Drainage Map		Sheet	0	0	0	0	
5.5	Typical Section Sheets		Sheet	0	0	0	0	Civil Surv
5.6	General Notes/Pay Item Notes		Sheet	0	0	0	0	Civil Surv
5.7	Summary of Quantities		Sheet	0	0	0	0	Civil Surv
5.8	Box Culvert Data Sheet		Sheet	0	0	0	0	N/A
5.9	Bridge Hydraulics Recommendation Sheets		Sheet	1	24	1	24	Ped Bridge
5.10	Summary of Drainage Structures		Sheet	0	0	0	0	N/A
5.11	Optional Pipe/Culvert Material		Sheet	0	0	0	0	N/A
5.12	Project Layout		Sheet	0	0	0	0	N/A
5.13	Plan/Profile Sheet		Sheet	0	0	0	0	Civil Surv
5.14	Profile Sheet		Sheet	0	0	0	0	Civil Surv
5.15	Plan Sheet		Sheet	0	0	0	0	Civil Surv
5.16	Special Profile		Sheet	0	0	0	0	N/A
5.17	Back of Sidewalk Profile Sheet		Sheet	0	0	0	0	Civil Surv
5.18	Interchange Layout Sheet		Sheet	0	0	0	0	N/A
5.19	Ramp Terminal Details (Plan View)		Sheet	0	0	0	0	N/A
5.20	Intersection Layout Details		Sheet	0	0	0	0	N/A
5.21	Miscellaneous Detail Sheets		Sheet	0	0	0	0	Civil Surv
5.22	Drainage Structure Sheet (Per Structure)		EA	2	2	1	4	possibly for rebuild of Roundabout

Project Activity 5: Roadway Plans

Task No.	Task	Scale	Units	No. of Units	Hours/ Unit	No. of Sheets	Total Hours	Comments	
5.23	Miscellaneous Drainage Detail Sheets		Sheet	1	8	1	8	assumed	
5.24	Lateral Ditch Plan/Profile		Sheet	0	0	0	0	N/A	
5.25	Lateral Ditch Cross Sections		EA	0	0		0	N/A	
5.26	Retention/Detention Ponds Detail Sheet		Sheet	0	0	0	0	N/A	
5.27	Retention Pond Cross Sections		EA	0	0		0	N/A	
5.28	Cross-Section Pattern Sheet		Sheet	0	0	0	0	Civil Surv	
5.29	Roadway Soil Survey Sheet		Sheet	0	0	0	0	Dunkelberger	
5.30	Cross Sections		EA	0	0		0	Civil Surv	
5.31	Traffic Control Plan Sheets		Sheet	0	0	0	0	Civil Surv	
5.32	Traffic Control Cross Section Sheets		EA	0	0		0	Civil Surv	
5.33	Traffic Control Detail Sheets		Sheet	0	0	0	0	Civil Surv	
5.34	Utility Adjustment Sheets		Sheet	5	5	5	25	utility adjustments	
5.35	Selective Clearing and Grubbing		Sheet	0	0	0	0	N/A	
5.36	Erosion Control Plan		Sheet	0	0	0	0	Included in MOT	
5.37	SWPPP		Sheet	1	3	1	3		
5.38	Project Control Network Sheet		Sheet	0	0	0	0	N/A	
5.39	Environmental Detail Sheets		LS	0	0		0	N/A	
5.40	Utility Verification Sheet (SUE Data)		Sheet	1	3	1	3	max of 10 SUE in tables	
Roadway Plans Technical Subtotal							14	115	
5.41	Quality Assurance/Quality Control		LS	%	20%		23	QC Civil Surv plans as well as ours	
5.42	Supervision		LS	%	3%		3		
5. Roadway Plans Total							14	141	

Project Activity 6: Drainage Analysis

Estimator:

Design & Permitting of Savona Blvd Sidewalk & Pedestrian Bridge
20120005

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
6.1	Determine Base Clearance Water Elevation	Per Location	0	0	0	
6.2	Pond Siting Analysis and Report	Per Basin	0	0	0	
6.3	Design of Cross Drains	EA	0	0	0	
6.4	Design of Roadway Ditches	Per Ditch Mile	0.5	14	7	
6.5	Design of Outfalls	EA	0	0	0	
6.6	Design of Stormwater Management Facility (Offsite Pond)	EA	0	0	0	
6.7	Design of Stormwater Management Facility (Roadside Ditch as Linear Pond or Infield Pond)	Per System	0	0	0	
6.8	Design of Flood Plain Compensation Area	Per Encroachment	0	0	0	
6.9	Design of Storm Drains	EA	2	3	6	roundabout redesign
6.10	Optional Culvert Material	LS	0	0	0	
6.11	French Drain Systems	Per 1000 Feet of French Drain	0	0	0	
6.12	Drainage Wells	EA	0	0	0	
6.13	Drainage Design Documentation Report	LS	1	0	0	
6.14	Bridge Hydraulic Report	EA	1	40	40	one alternative (3 span option)
6.15	Temporary Drainage Analysis	LS	1	0	0	
6.16	Cost Estimate	LS	1	0	0	
6.17	Technical Special Provisions	LS	1	0	0	

Project Activity 6: Drainage Analysis

Task No.	Task	Units	No of Units	Hours/Unit	Total Hours	Comments
6.18	Other Drainage Analysis	LS	1	0	0	
Drainage Analysis Technical Subtotal						
6.19	Field Reviews	LS	1	3	3	
6.20	Technical Meetings	LS	1	0	0	Meetings are listed below
6.21	Quality Assurance/Quality Control	LS	%	5%	3	
6.22	Independent Peer Review	LS	%	0%	0	to be performed by CivilSurv
6.23	Supervision	LS	%	3%	2	
Drainage Analysis Nontechnical Subtotal						
6.24	Coordination	LS	%	3%	2	
6. Drainage Analysis Total						
					63	<i>city provided for</i>

Technical Meetings

Base Clearance Water Elevation	EA	0	0	0	0
Pond Siting	EA	0	0	0	0
Agency	EA	0	0	0	0
Local Governments (cities, counties)	EA	0	0	0	0
FDOT Drainage	EA	0	0	0	0
Other Meetings	EA	0	0	0	0
Subtotal Technical Meetings					
0					
Progress Meetings (if required by FDOT)	EA	0	0	0	0
Phase Review Meetings	EA	0	0	0	0

Total Meetings

0
Carries to 6.20

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

Project Activity 7: Utilities

Estimator:

Design & Permitting of Savona Blvd Sidewalk & Pedestrian Bridge
20120005

Task No.	Task	Units	No of Units	Hours/ Unit	Total Hours	Comments
7.1	Kickoff Meeting	LS	1	4	4	
7.2	Identify Existing UAO(s)	LS	1	0	0	
7.3	Make Utility Contacts	LS	1	0	0	
7.4	Exception Coordination	LS	1	0	0	
7.5	Preliminary Utility Meeting	LS	1	0	0	
7.6	Individual/Field Meetings	LS	1	2	2	
7.7	Collect and Review Plans and Data from UAO(s)	LS	1	0	0	
7.8	Subordination of Easements Coordination	LS	1	0	0	
7.9	Utility Design Meeting	LS	1	4	4	
7.10	Review Utility Markups and Work Schedules, and Processing of Schedules and Agreements	LS	1	0	0	
7.11	Utility Coordination/Followup	LS	1	0	0	
7.12	Utility Constructability Review	LS	1	0	0	
7.13	Additional Utility Services	LS	1	0	0	
7.14	Processing Utility Work by Highway Contractor (UWHC)	LS	1	0	0	
7.15	Contract Plans to UAO(s)	LS	1	0	0	
7.16	Certification/Close-Out	LS	1	0	0	
7.17	Other Utilities	LS	1	0	0	
7. Utilities Total					10	

FEE SCHEDULE

Labor	Rate	Description	Survey & Mapping		30% Design		60% Design		90% Design		100% Design		Cost Estimates		Utility Coord		Const. Bidding		Const. Services		OA/QC		Totals		
			48	\$0	4	\$240	4	\$240	4	\$240	4	\$240	4	\$240	4	\$240	20	\$1,200	20	\$1,200	20	\$1,200	2	\$120	82
72	\$60	Administrative Assistant	48	\$3,840																					
73	\$80	Associate 1		\$0																					
74	\$90	Associate 2		\$0																					
75	\$115	Sr. Associate		\$0																					
76	\$125	Project Manager	16	\$2,000	24	\$3,000	30	\$3,750	6	\$750	24	\$3,000	8	\$1,000	10	\$1,250	10	\$1,250	64	\$8,000	20	\$2,300	222	\$25,530	
77	\$150	Sr. Project Manager		\$0																					
78	\$175	Director	8	\$1,400	4	\$700	10	\$1,750	4	\$700	4	\$700	4	\$700	2	\$350	2	\$350	32	\$5,600	16	\$2,800	86	\$15,050	
79	\$250	Principal		\$0																					
42	\$105	2 Person Survey Crew	98	\$10,290																					
43	\$140	3 Person Survey Crew		\$0																					
44	\$175	Specialty Survey Crew		\$0																					
		TOTAL ESTIMATED COST	170	\$17,530	92	\$9,840	164	\$17,540	84	\$8,240	92	\$9,840	48	\$5,620	72	\$7,400	72	\$7,400	116	\$14,800	58	\$7,720	968	\$105,930	

Savona Boulevard Sidewalk &
 Pedestrian Bridge
 City of Port St. Lucie
 CivilSurv Proj. No.: P157
 M-11/1/16, J.1/1/16, S.1/1/16