
MEMORANDUM

TO: JOSEPH LO BELLO, TOWN MANAGER
FROM: ANDREA DOBBINS, PROJECT COORDINATOR/RISK MANAGER
SUBJECT: ENGINEERING FOR UNIVERSE BLVD STORMWATER PROJECT
DATE: 8/12/2021

AD

BACKGROUND

The Universe Blvd. drainage system consists of a series of inlets and underground drainage pipes running along both sides of the roadway. The system's ultimate discharge is the Intracoastal Waterway via a piped connection through the southern end of the Bay Colony development. Town staff has been addressing structural failures of the stormwater pipe since 2010, when a sink hole was observed adjacent to an intake structure. At that time, staff worked with the Town's engineering firm and a contractor to perform visual inspections of the pipe including a video, a report of their findings and repair recommendations.

In 2013, the Town Council determined that a fair and equitable means to maintain the infrastructure on Universe Blvd. would be shared by the abutting property owners that discharge into the drainage system. The percentage assigned to each stakeholder was determined according to the size of their parcel of land adjacent to the drainage system. The cost associated with all of this work has been distributed between Florida Power and Light (60%), Ocean Trace Condominiums (19.5%), The Waterford (14.3%), the Town (5.2%), and DSS Jupiter LLC (1%).

Staff has been working with a grant consultant since 2017 on multiple grant opportunities to replace the 5,000 LF of 40+ year old corrugated metal pipe that makes up the storm water drainage system. In addition to the grant applications, staff has petitioned Senator Powell and Representative Roth for state appropriations. Unfortunately, we have not yet secured supplemental funding for this project. The infrastructure has continued to fail leading to emergency repairs. To date, the stakeholders have spent approximately \$229,000 to maintain the drainage pipe and fill in the sink holes.

Armed with the certainty that this infrastructure will continue to require repairs, staff believes it is in the best interest of all stakeholders to move forward with the engineering and permitting to make this project "shovel ready".

A

DISCUSSION

In July 2021, staff met with the stakeholders; FPL, The Waterford, DSS, Inc., and Ocean Trace/Uno Lago. It was explained that funding requests have been on-going and unsuccessful and the next proposed step is to make this project “shovel ready”. A “shovel ready” project is in the advanced stage of development with the engineering design completed and permits approved, essentially ready for construction. Many grants look more favorably upon “shovel ready” projects and with a competitive grant application process this is a certain advantage. Staff believes that a shovel ready project positions the stakeholders to make another attempt at securing supplemental funding.

The Town’s engineer, Simmons and White, has *estimated* the cost of replacing this infrastructure to be \$2,010,546. (See attachment “D”. *Please note that the cost of construction has increased considerably in the last year and is likely to cost more than originally estimated.) They have provided staff with a line item break down for the scope of services associated with *engineering and permitting*. (See attachments “A”, “B” & “C”) Although there are some unknown variables, only to be determined upon permit approval by the various agencies and after coordinating with the surveyor and hiring a lighting consultant, the estimated expense for engineering and permitting is \$84,379.17. In order to cover the unknown costs associated with the permitting process an additional 10% is factored in for a total of \$93,000. All of the stakeholders have expressed support to make this project “shovel ready” and the expense will be appropriated as outlined above.

The engineer estimates that this design work can be accomplished in the next few months. The engineering design by Simmons & White would take about 4 weeks and then the permits would be submitted to each agency involved. That time frame is unknown as each agency is different but possibly 2-3 months for all required permits for a total of 3-4 months which would land us around the end of 2021 or the beginning of 2022.

Staff had hoped that some of the appropriations requests or mitigation grants would cover the cost of the engineering and permitting but at this point it may be an expense that the stakeholders must absorb. Staff will continue to work with our grant consultant and pursue funding opportunities to help the stakeholders with this project.

RECOMMENDATIONS:

Staff recommends the Town Council consider a motion to have the Town’s engineering firm, Simmons & White, Inc., provide engineering services and secure the required permits for this project not to exceed \$93,000 from the American Rescue Plan Act funding and to determine that solicitation for surveying, geotechnical and/or electrical engineering quotes is not practical or advantageous and authorize staff to work with the contractors listed as Simmons & White’s preferred subcontractor list.



June 17, 2020

Town of Juno Beach
340 Ocean Drive
Town of Juno Beach, Florida 33408

Attention: Mr. Joseph LoBello

Reference: Universe Boulevard Drainage System Improvements
Town of Juno Beach, Florida

Dear Mr. LoBello:

We are pleased to submit the following proposal for professional services in connection with the roadway drainage system improvements to Universe Boulevard, located between Ellison Wilson Road and US Highway One in the Town of Juno Beach, Florida. Simmons & White, Inc., hereinafter referred to as the Consultant, proposes to furnish professional services for Town of Juno Beach, hereinafter referred to as the Client of the scope outlined below for the fees stipulated herein.

Scope of Services

The Consultant will perform the following:

1. Provide assistance to Town's staff and Town's Grant Consultant regarding phased Grant Application including submittal of application documents and coordination with Grant Agencies.
2. Coordinate with Town's staff and Town's lighting consultant regarding relocation of existing light poles within Universe Boulevard. Provide assistance to lighting consultant regarding pole relocation requirements and permitting.
3. Coordinate with franchise utility service providers (electric, telephone, cable TV, and natural gas) regarding location of existing facilities within Universe Boulevard including coordination with the Client's Contractor/service and Surveyor regarding soft dig location of existing facilities. Coordinate with franchise utilities to relocate utilities that are in conflict with proposed drainage design.

_____ Int.

Scope of Services (Continued)

4. Coordinate with the Palm Beach County Engineering Traffic Division regarding conflict with and relocation of existing traffic signal equipment and its facilities.
5. Upon authorization from the Client, finalize previously prepared 50% On-Site Paving and Drainage Plans, Water Management Calculations and Stormwater Pollution Prevention Basemap for 100% completion.
6. Prepare permit application packages and submit to the following agencies:
 - Florida Department of Transportation – Drainage Connection Permit
 - Palm Beach County Land Development - On-Site Drainage Approval
 - Palm Beach County Land Development – Utilities in Right-of-Way Permit
 - South Florida Water Management District - Environmental Resource Permit Modification
 - Seacoast Utility Authority – For Informational Purposes Only

NOTE: Items 4, 5 and 6 assume that the governing agencies will accept a pre vs. post development discharge analysis with provisions only for water quality. If the governing agencies require the roadway to be improved to current standards with regard to drainage, dedicated water management areas may be required thereby affecting the proposed plan of development. Client or Contractor shall be responsible for all NPDES activities including preparation and maintenance of final NPDES Stormwater Pollution Prevention Plan, filing of required documents (i.e., NOI, NOT and Inspection Reports, etc.) and maintenance of site pollution prevention measures. Client's Contractor responsible for all Maintenance of Traffic Plans (design and installation, and monitoring during duration of project). Items 4, 5 and 6 also assume that Seacoast Utility Authority will not require any permitting or modifications to their existing facilities within Universe Boulevard and includes plan submission to their office as professional courtesy for informational purposes only, and that Palm Beach County Engineering and its facilities may be replaced/supported in their current locations and no new facilities or routes will be required. If Palm Beach County Engineering Traffic Division or Seacoast Utility Authority involvement increases beyond the stated scope, additional fees may be required.

Scope of Services (Continued)

7. Prepare Dewatering Plans and permit application packages and submit to South Florida Water Management District Water Use Division for approval of a Dewatering Permit. This Item includes coordination with Client's prospective contractors and Geotechnical Engineer in order to obtain required information on water table depth and fluctuations as well as any required ground water modeling results and dewatering pump information and procedures.

8. Provide services during construction as required to certify the completed project to the governing agencies, in general accordance with Attachment "A".

NOTE: This Item includes only the Scope outlined in Attachment "A". Additional meetings, failed inspections, requests for additional services, etc., are not included and may cause the provided budget to be exceeded.

9. Revisions to the above based on Site Plan changes or items beyond the control of the Consultant.

10. Additional services requested by the Client and agreed to by the Consultant such as, but not limited to, preparation of preliminary cost estimates, assistance with bidding, assistance with South Florida Water Management District Water Use permitting for irrigation, if required, any permitting or water main modifications required by Seacoast Utility Authority and modifications to County facilities.

Items to be Furnished by the Client
at No Expense to the Consultant

Assist the Consultant by placing at his disposal all available pertinent information relative to the project.

Furnish at no cost to the Consultant:

1. Name and address of property owner and copy of the last recorded Warranty Deed.
2. All permit application and governmental fees and any required bonds/surety.

_____ Int.

Items to be Furnished by the Client
at No Expense to the Consultant (Continued)

3. Soil borings and analysis.
4. Construction testing.
5. Traffic counts, if required.
6. All surveying including, but not limited to, property, boundary (tied to State Plane Coordinates), easement, right of way, topographic, permanent reference monuments, permanent control points, utility surveys, property descriptions and construction staking, As-built surveys of constructed improvements, and existing utility locations on and adjacent to the property including but not limited to FP&L, AT&T, Cable T.V. & Gas. It is highly recommended that the Client's Surveyor contact "No Cuts" prior to performing survey so that all existing franchise utilities can be shown on the survey to avoid field conflicts during construction.
7. Proposed utility routes for FP&L, telephone, Cable T.V., gas, irrigation, lighting, etc. may be required for the proposed development. This coordination effort is assumed to be provided by the Client or their representatives. Consultant will provide coordination as requested or required to insure there are no conflicts with the proposed site infrastructure (paving, drainage, water and wastewater) on an hourly basis. The proposed utility routes need to be provided as soon as possible to allow Consultant to coordinate the infrastructure design.
8. All required easements for proposed (and existing if no easements exist) infrastructure (drainage, water, sewer as applicable) will be provided by the Client's Surveyor.
9. Cost estimates for the proposed infrastructure to be provided by Client's Contractor and provided to Consultant as soon as available.
10. Desired source of irrigation water and projected demand.
11. Lighting Plans for light pole relocations to be provided by Client's Photometric/Electrical Engineer.

_____ Int.

Items to be Furnished by the Client
at No Expense to the Consultant (Continued)

12. “Soft dig” report showing horizontal and vertical location of existing utilities determined to be potential conflict with proposed improvements where no reliable record data is available. It is recommended that the Client contract this work after the Conceptual Engineering Plan phase (or after receipt of preliminary agency comments) so that proposed utility and drainage connection locations are better established. The Client’s Surveyor shall plot this information on the design survey and provide to Consultant in .dwg format.
13. Any groundwater modeling and/or analysis required for water use and/or de-watering permitting with South Florida Water Management District.
14. Complete landscape, berming and irrigation plans, showing landscape and berming details.
15. Details regarding required conduit locations for irrigation and utilities, etc. (if any).
16. Any required right-of-way dedications per the project’s conditions of approval.

In addition to the above, other special data, all of which the Consultant will rely upon in performing services.

It is agreed and understood that the accuracy and veracity of said information and data may be relied upon by the Engineer without independent verification of the same.

Time of Performance

The Scope of Services will be completed within a time frame to be mutually agreed upon except for delays beyond the control of the Consultant.

Fees to be Paid

The Consultant shall be paid the following lump sum fees and hourly fee estimates for the Items in the Scope of Services:

Item 1 – Coordination w/Grant Consultant	=	\$ 2,500.00
Item 2 – Coordination w/Lighting Consultant	=	\$ 2,500.00
Item 3 – Coordination w/Franchise Utilities	=	\$12,500.00
Item 4 – Coordination w/PBC Traffic Division	=	\$ 5,000.00
Items 5 & 6 – Paving and Drainage Plans	=	\$12,500.00
Item 7 – Dewatering Plans	=	\$ 3,500.00
Item 8 – Services During Construction	=	\$20,000.00 (hourly budget)

For Items 8 through 10, the Consultant shall be paid an hourly rate of \$160 for Principal, \$160 for Traffic Principal, \$140 for Senior Engineer, \$115 for Engineer, \$100 for Senior Technician, \$80 for Technician, \$55 for Clerical. In addition to the fees above, the Consultant shall be reimbursed for direct expenses including, but not limited to, automobile travel at \$.575 per mile, printing, postage, courier (flat fee of \$25.00 for distances less than 100 miles) and reproduction.

We estimate the cost of Item 8 to be \$20,000.00. It should be emphasized that this estimate is for budget purposes only and should not be considered a guaranteed amount. The above fees are subject to increase one year from the date of this proposal.

Payments shall be made upon monthly billing, payable within 21 days from the date of invoice. Any billing dispute or discrepancy shall be set forth in writing and delivered to Simmons & White, Inc. prior to the due date for payment. Any matter not set forth in writing and delivered prior to the due date shall be deemed waived and the invoice shall be deemed correct and due in full. Past due payments shall include interest from the date of invoice at a simple interest rate of 1-1/2 percent per month.

In the event any invoice or any portion thereof remains unpaid for more than forty-five (45) days following the invoice date, the Consultant may initiate legal proceedings to collect the same and recover, in addition to all amounts due and payable, including accrued interest, its reasonable attorney's fees and other expenses related to the proceeding. Such expenses shall include, but not be limited to the cost, determined by the Consultant's normal hourly billing rates, of the time devoted to such proceeding by its employees.

Fees to be Paid (Continued)

Pursuant to Section 558.0035 of Florida Statutes, an individual employee or agent of Consultant may not be held individually liable for negligence.

Construction Phase Services

Services during construction will endeavor to provide protection for the Client against defects and deficiencies in the work of the Contractor. However, the furnishing of services during construction does not guarantee the work of the Contractor, nor assume liability on the part of the Contractor for job safety.

Estimates

Consultant's opinions of probable Construction Cost are to be made on the basis of Consultant's experience and qualifications and represent Consultant's best judgment as an experienced and qualified professional generally familiar with the construction industry. However, because the Consultant has no control over the cost of labor, materials, equipment, or services furnished by others, or over contractor's methods of determining prices, or over competitive bidding or market conditions, Consultant cannot and does not guarantee that proposals, bids, or actual Construction Cost will not vary from opinions of probable Construction Cost prepared by Consultant. If Client requires greater assurance as to probable Construction Cost, Client must employ an independent cost estimator.

Termination

This Agreement may be terminated by either party by giving three (3) days advance written notice. The Consultant shall be paid for services rendered to the date of termination on the basis of a reasonable estimate of the portion of services completed prior to termination and shall be paid for all reasonable expenses resulting from such termination and for any unpaid reimbursable expenses.

Mr. Joseph LoBello
June 17, 2020 – Page 8

Acceptance

Acceptance of this proposal may be indicated by the signature of a duly authorized official of the Client in the space provided below. One signed copy of this proposal, along with Item 1 under “Items to be Furnished by the Client,” returned to the Consultant will serve as an Agreement between the two parties and as Notice to Proceed. (By their signature, the Client certifies that they have sufficient funds reserved to pay for these professional services.) Should this proposal not be accepted within a period of 60 days from the above date, it shall become null and void.

Very truly yours,

SIMMONS & WHITE, INC.



Robert F. Rennebaum, P.E.
President

Accepted by:

Town of Juno Beach

Signature: _____

Company/Individual: _____

Title: _____

Date: _____

Please fill in the following information and/or attach a business card when returning your signed proposal.

Client's Telephone: (_____) _____

Client's Facsimile: (_____) _____

Client's E-Mail Address: _____

ATTACHMENT "A"

DESCRIPTION OF SERVICES DURING CONSTRUCTION

1. Review shop drawings.
2. Coordinate, prepare and submit pre-construction meeting submittals to applicable governing agencies and attend pre-construction meeting.
3. Observe water main tie-in and periodic observations of main construction.
4. Observe storm sewer construction, including tie-ins to existing facilities.
5. Observe road subgrade construction.
6. Observe road base construction.
7. Observe sidewalk/curbing/handicap construction.
8. Conduct pre-agency final observation and develop punchlist based on agency requirements.

NOTE: The development of a pre-agency final punchlist is intended to address any known deficiencies prior to agency final but cannot be relied upon as a "complete" list.

9. Conduct semi-final and final inspection with Palm Beach County Construction Coordination/Engineering/Traffic.
10. Conduct semi-final and final inspection with Florida Department of Transportation.
11. Conduct semi-final and final inspection with Town of Juno Beach.
12. Provide additional construction observation: Consultant will make visits to the site at intervals appropriate to the various stages of construction to observe the progress and quality of the executed work and to determine, in general, if the work is proceeding in accordance with the Contract Documents. Consultant will not be required to make exhaustive or continuous on-site inspections to check the quality of the work. Consultant's efforts will be directed toward providing for Client a greater degree of confidence that the completed work will conform to the Contract Documents.

On the basis of such visits and on-site observations as an experienced and qualified design professional, Consultant will keep Client informed of the progress of the work and will endeavor to guard Client against defects and deficiencies in the work. The furnishing of construction observation services does not guarantee the work of the Contractor, nor assume liability on the part of the Contractor for job safety. Consultant will have authority to disapprove or reject work which is defective.

13. Project Certifications: Upon the Contractor's completion of the required site improvements, Client's registered land surveyor will prepare record drawings. Upon approval of the construction, Engineer will review and submit record drawings together with letters of certification to the applicable governing agencies.
14. Review job progress with Client.
15. Review Construction Pay Estimates.
16. At the Client's request, investigate matters which may arise during construction and provide recommendations, observations and other services as required. Additional construction related services that the Consultant is requested to perform that are outside of the scope of work outlined in this attachment may exceed the estimated hourly budget amount provided. Consultant assumes that Client's request to perform work outside of the scope outlined in this attachment authorizes Consultant to perform the requested task(s) and Client shall provide due compensation in accordance with the terms of this contract, should the requested services exceed the estimated hourly budget provided.



June 24, 2020

Town of Juno Beach
c/o Mr. Paul Buri, P.E.
Simmons & White, Inc.
2581 Metrocentre Blvd., Suite 3
West Palm Beach, FL 33407

Re: Town of Juno Beach- Universe Blvd. Street Lighting Modifications
Electrical Engineering Services Proposal

Dear Mr. Buri:

Smith Engineering Consultants, Inc. (SEC) is pleased to provide this proposal for the above referenced project. We propose to provide the following scope of services:

Design Phase:

1. Initial site visit and review of preliminary project plans.
2. Prepare illumination calculations (photometrics) to indicate design illumination levels for permitting.
3. Roadway lighting design in accordance with Illuminating Engineering Society standards, the National Electrical Code, and applicable local codes along Universe Blvd. from Ellison Wilson Road to US Highway No. 1. The design intent is to relocate the existing street lighting installation (light poles/fixtures, pull boxes, conduit and wire, etc.) along the north side of Universe Blvd. as required by the proposed improvements to the existing drainage system.
4. Coordinate with FPL as required for the proposed street lighting modifications.
5. Attend design/coordination meetings at Simmons & White as necessary.
6. Prepare AutoCAD drawings to describe the electrical service point(s), pole/fixture locations, circuitry, and lighting details, suitable for bidding, permitting, and construction.
7. Attend both 60% and 90% review meetings with the project team and the City.

8. Prepare an estimate of construction costs for the electrical service and distribution, and the roadway lighting installations at the 60%, 90%, and final completion levels.
9. Attend the pre-bid meeting, assist in preparing addendums, and respond to questions during the bid process

SEC will prepare contract documents, suitable for bidding, permit, and construction, including plans and specifications. We will submit these documents at the 60%, 90%, and final completion levels. We propose to furnish drawings in AutoCAD format using base plan drawings provided by Simmons & White. Our lump sum fee to provide the design phase services described above is \$10,500.

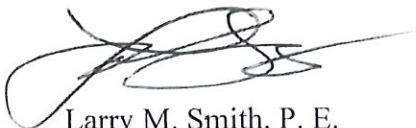
Construction Phase:

1. Attend the pre-construction meeting.
2. Review electrical equipment shop drawings.
3. Respond to contractor requests for information (RFI's) and review change order requests.
4. Attend up to two (2) construction meetings/site visits during construction.
5. Perform substantial completion and final inspections and prepare punch lists.
6. Prepare record drawings based upon contractor "as-built" drawings.

Our lump sum fee to provide the construction phase services described above is \$4,000.

Thank you for using Smith Engineering Consultants as the source for these engineering services. We look forward to working with you on this project.

Sincerely,



Larry M. Smith, P. E.
President

InfraMap

C O R P

Date: July 16, 2020

Presented to: Town of Juno Beach
c/o Simmons & White Inc.
2581 Metrocentre Blvd, Suite 3
West Palm Beach
Phone No.:
Fax No.:

Attn: Paul A. Buri, P.E. Sr. Project Manager

Project name: Universe Blvd, Juno Beach
Test Hole Services

As requested, InfraMap Corporation (IMC) has prepared this proposal for utility infrastructure investigation services for the above referenced project. This proposal is based upon the best information available to InfraMap regarding site conditions at the time of writing. This proposal does not represent a lump sum fee to perform these services. The proposed fee will not be exceeded without the expressed consent of the client.

Project limits and description: Perform up to fifty three (53) test holes as described by client, along Universe Blvd between US 1 & Ellison Wilson Rd. In addition the test holes will be surveyed and cad file will be provided.

Services to be provided: Utility Test Hole Services as described in attachment "A".

Notes: Cad file will be provided to client.

<u>FEE SCHEDULE</u>	<u>ESTIMATED FEE</u>	
<u>Resource</u>	<u># Hours/Units</u>	<u>\$s</u>
<i>Project Manager/PE, LS: \$155.10/hr.</i>	12	\$ 1,861.20
<i>Utility Location Manager: \$101.74/hr.</i>	12	\$ 1,220.88
<i>Party Chief: \$92.60/hr.</i>	16	\$ 1,481.60
<i>Instrument Operator: \$86.92/hr.</i>	16	\$ 1,390.72
<i>Cad Technician: \$80.67/hr.</i>	20	\$ 1,613.40
<i>Administrative: \$60.00/hr.</i>	1	\$ 60.00
<u>Test Hole Services</u>		
<i>0' to 6': \$507.89/ea.</i>	53	\$ 26,918.17
<i>Contingent feet: \$ 112.00/ft. (Test holes beyond 6' in depth)</i>	5	\$ 560.00

Complete Utility Infrastructure Surveying and Mapping Since 1987

Direct Expenses

Arrow Board: \$80.00/DAY] (IF/AS NEEDED)	1	\$ 80.00
Mileage: \$0.575 per mile (IRS rate)	336mi	<u>\$ 193.20</u>

TOTAL ESTIMATED FEE	<u>\$ 35,379.17</u>
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This estimate is not a lump sum fee and is valid for 90 days. This estimate is good for test hole services on utilities within the project limits as herein defined, and will not be exceeded without the expressed consent of the client.


PAYMENT TERMS

Terms of payment are subject to modification by seller (InfraMap). Buyer (client) agrees to make prompt payment of invoices due in accordance with Seller's approved terms, whether for complete or partial services. Terms: Net 30 days from completion of work and receipt of invoice. If payment is contingent upon Buyer being paid by a "Third Party" for services, InfraMap Corp. (InfraMap) must be notified immediately of the name and address of the "Third Party". Buyer will submit invoices to the "Third Party" in a timely manner and InfraMap will receive payments from Buyer within 15 days of Buyer being paid. If this is not the case then InfraMap reserves the right to modify this clause to reflect a revised payment schedule.

Late Charge: A late payment service charge equal to 1.5% per month or the maximum charge allowed by applicable law, whichever is lower, shall be assessed on all amounts not paid when due. All accounts are net 30 days unless specifically agreed upon in writing.

Delinquency Collections: In the event Buyer fails to pay for any services when due, or should Buyer's account become otherwise delinquent, or in the event of Buyer's bankruptcy or insolvency, or in the event of Buyer's breach of this Agreement, then in any such event Seller may, at its option: (i) terminate any or all existing contracts; (ii) refuse to perform services under this or any other order; and/or (iii) avail itself of any other further remedies available to it at law or in equity. Buyer agrees to pay all cost of collection, including reasonable attorney's fees.

This service will be provided with due diligence and in a manner consistent with standards of the professional utility infrastructure mapping profession. InfraMap does not guarantee that all existing utility systems can or will be detected. It may not be possible to detect all utilities, such as but not limited to systems that are not depicted on records available to us, and systems rendered undetectable due to unfavorable site conditions. Use of this service does not relieve interested parties from their responsibility to make required notifications prior to excavation. Use of this service does not relieve utility owners of their responsibility to mark the location of their facilities prior to excavation. InfraMap Corp. will not be responsible for damages to utilities caused by others.

Presented by:  July 16, 2020

Andres Garcia Date
Senior Utility Location Manager
InfraMap Corp.

Accepted: _____

Authorized Signature Date

SIMMONS & WHITE, INC.
2581 METROCENTRE BLVD. WEST #3, WEST PALM BEACH, FLORIDA 33407
CERTIFICATE OF AUTHORIZATION #3452

**PRELIMINARY COST ESTIMATE
OPTION 1
Full System Replacement**

PB
09/13/16
REV 12/2/19
JOB NO 16-004.8

Universe Blvd Drainage System Replacement

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ESTIMATED COST</u>
A.	<u>SITE WORK:</u>				
1.	NPDES Requirements	1	JOB	L.S.	\$10,000.00
2.	Mobilization	1	JOB	L.S.	\$20,000.00
3.	M.O.T.	1	JOB	L.S.	\$30,000.00
4.	Dewatering	90	DAY	\$1,500.00	\$135,000.00
5.	ICW Cofferdam and outfall structure installation	1	JOB	L.S.	\$85,000.00
6.	Restore Right of Way	5,400	S.Y.	\$2.00	\$10,800.00
7.	Restore Outfall Easement area	1,500	S.Y.	\$50.00	\$75,000.00
				<u>SUBTOTAL SITE WORK:</u>	<u>\$365,800.00</u>
B.	<u>PAVING:</u>				
1.	Roadway Restoration	2,500	S.Y.	\$85.00	\$212,500.00
2.	Striping / Signage	1	JOB	L.S.	\$15,000.00
3.	Type "D" Curb	120	L.F.	\$14.00	\$1,680.00
4.	Type "E" Curb	90	L.F.	\$16.00	\$1,440.00
5.	Remove and Replace 5' Existing Concrete Sidewalk	1,400	S.Y.	\$45.00	\$63,000.00
				<u>SUBTOTAL PAVING:</u>	<u>\$293,620.00</u>
C.	<u>DRAINAGE:</u>				
1.	Type 'C' Ditch Bottom Inlet	7	EACH	\$3,000.00	\$21,000.00
2.	4' Diameter Manhole	1	EACH	\$3,600.00	\$3,600.00
3.	5' Diameter Manhole w/ DBI	2	EACH	\$5,300.00	\$10,600.00
4.	6' Diameter Manhole	2	EACH	\$8,000.00	\$16,000.00
5.	7' Diameter Manhole w/ DBI	3	EACH	\$9,500.00	\$28,500.00
6.	7' Diameter Manhole	2	EACH	\$9,000.00	\$18,000.00
7.	8' Diameter Manhole	3	EACH	\$12,000.00	\$36,000.00
8.	ICW outfall structure	1	EACH	\$15,000.00	\$15,000.00
9.	18" R.C.P.	778	L.F.	\$35.00	\$27,230.00
10.	30" R.C.P.	612	L.F.	\$70.00	\$42,840.00

SIMMONS & WHITE, INC.
 2581 METROCENTRE BLVD. WEST #3, WEST PALM BEACH, FLORIDA 33407
 CERTIFICATE OF AUTHORIZATION #3452

**PRELIMINARY COST ESTIMATE
 OPTION 1
 Full System Replacement**

PB
 09/13/16
 REV 12/2/19
 JOB NO 16-004.8

Universe Blvd Drainage System Replacement

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>QUANTITY</u>	<u>UNIT</u>	<u>UNIT COST</u>	<u>ESTIMATED COST</u>
11.	48" R.C.P.	1221	L.F.	\$140.00	\$170,940.00
12.	54" R.C.P.	1505	L.F.	\$180.00	\$270,900.00
13.	Remove Existing Drainage System	3,539	L.F.	\$75.00	\$265,425.00
<u>SUBTOTAL DRAINAGE:</u>					<u>\$926,035.00</u>
D.	<u>MISCELANEOUS:</u>				
1.	Support Existing Watermain	1	JOB	L.S.	\$25,000.00
2.	Support/Replacement of Existing Utilities/Light Pole	1	JOB	L.S.	\$40,000.00
3.	Survey/As builts	1	JOB	L.S.	\$25,000.00
<u>SUBTOTAL MISCELANEOUS:</u>					<u>\$90,000.00</u>
<u>SUBTOTAL SITE WORK:</u>					<u>\$365,800.00</u>
<u>SUBTOTAL PAVING:</u>					<u>\$293,620.00</u>
<u>SUBTOTAL DRAINAGE:</u>					<u>\$926,035.00</u>
<u>SUBTOTAL MISCELANEOUS:</u>					<u>\$90,000.00</u>
<u>Contingency (20%):</u>					<u>\$335,091.00</u>
 <u>GRAND TOTAL:</u>					 <u>\$2,010,546.00</u>
<u>Shared Costs Per Multi-Party Drainage Agreement:</u>					
<u>FPL 60%:</u>					<u>\$1,206,327.60</u>
<u>Uno Lago 19.5%:</u>					<u>\$392,056.47</u>
<u>The Waterford 14.3%:</u>					<u>\$287,508.08</u>
<u>Town of Juno Beach 5.2%:</u>					<u>\$104,548.39</u>
<u>DS Jupiter 1.0%:</u>					<u>\$20,105.46</u>