

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: January 23, 2018

Consent Regular
Public Hearing

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Consultant Services Authorization (CSA) No. 1 for the Priority Aerial Canal Crossing Improvements Phase 2 Project (Project) with Mock, Roos & Associates, Inc., in the amount of \$243,900.

Summary: On June 20, 2017 the Board of County Commissioners (BCC) approved the Water Utilities Department (WUD) Contract with Mock, Roos & Associates, Inc., (R2017-0818). CSA No. 1 provides for engineering services relating to the surveying, design and permitting for the replacement/rehabilitation of nine (9) aerial canal crossings. The Small Business Enterprise (SBE) participation goal established by the SBE Ordinance is 15% overall. The Contract with Mock, Roos & Associates, Inc., provides for SBE participation of 98% overall. CSA No. 1 includes 75.63% overall participation. The cumulative SBE participation, including CSA No. 1 is 75.63% overall. Mock, Roos and Associates, Inc., is a Palm Beach County company. The Project is included in the FY 18 Capital Improvement Plan adopted by the BCC. (WUD Project No. 17-077) District 5 and 6 (MJ)

Background and Justification: WUD is currently implementing projects to rehabilitate the existing water distribution and wastewater collection system that will increase system capacity, improve system pressures, increase hydraulic efficiency and overall system reliability. WUD has identified nine (9) aerial crossing locations that are in need of rehabilitation within the WUD service area. CSA No. 1 provides for the work necessary to undertake the rehabilitations.

Attachments:

- 1. Location Map
- 2. Four (4) Original CSA No. 1

Recommended By: Jim Steleo 12-14-17
 Department Director Date

Approved By: [Signature] 1/8/18
 Deputy County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2018	2019	2020	2021	2022
Capital Expenditures	<u>\$243,900</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Operating Costs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
NET FISCAL IMPACT	<u>\$243,900</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Budget Account No.:	Fund <u>4011</u>	Dept <u>721</u>	Unit <u>W019</u>	Object <u>6547</u>	

Is Item Included in Current Budget? Yes X No

Does this item include the use of federal funds? Yes No X

Reporting Category N/A

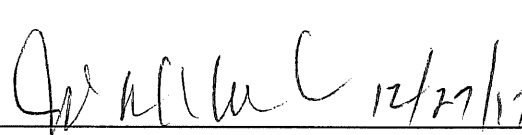

B. Recommended Sources of Funds/Summary of Fiscal Impact:

One (1) time expenditure from user fees, connection fees and balance brought forward.

C. Department Fiscal Review: _____

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

 12/27/17
 OFMB AK
 8/12/17 12/27
 12/28/17
 Contract Development and Control

B. Legal Sufficiency:

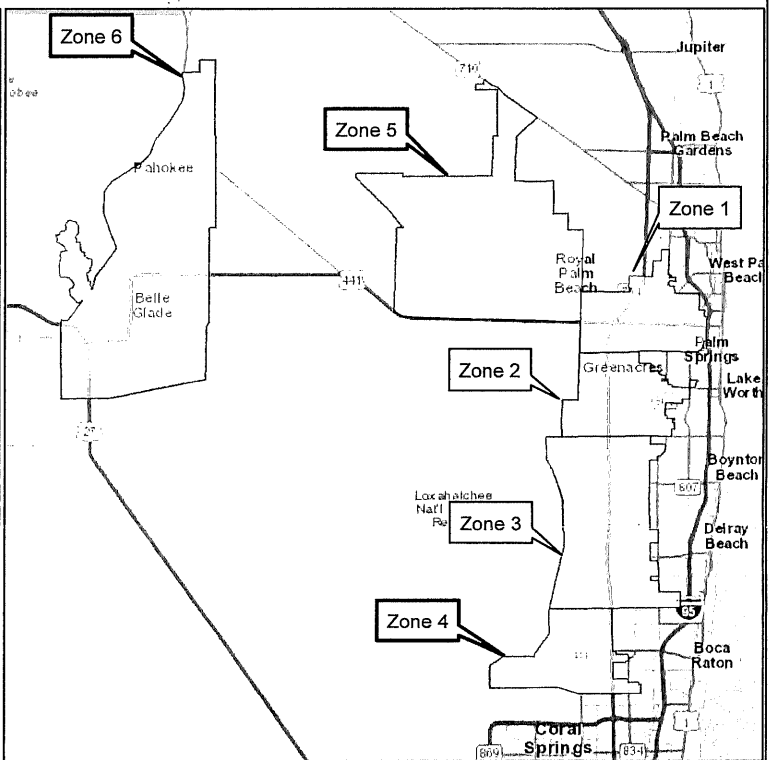
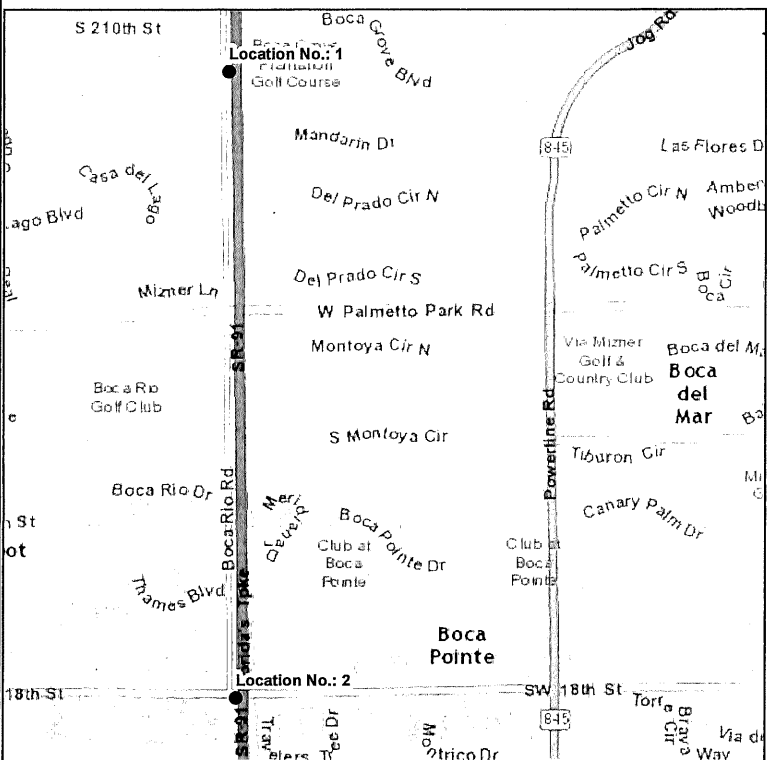

 Assistant County Attorney 1/5/18

C. Other Department Review:

Department Director

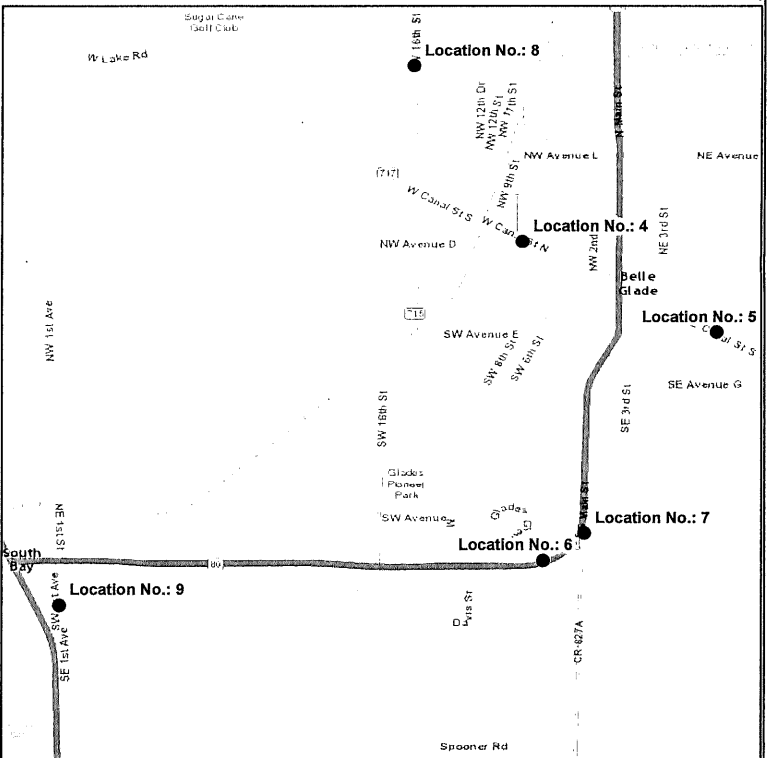
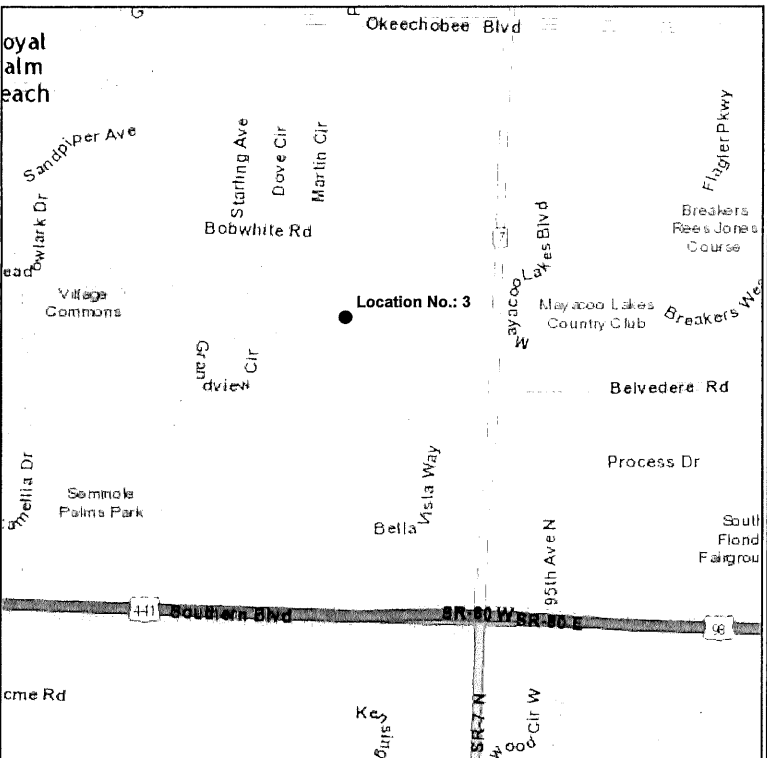
This summary is not to be used as a basis for payment.

ATTACHMENT 1



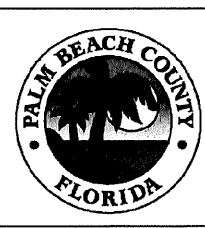
Zone 4 Aerial Canal Crossing Locations

WUD Zone Map

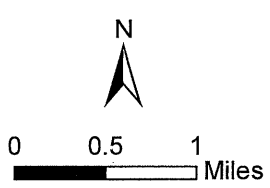


Zone 5 Aerial Canal Crossing Locations

Zone 6 Aerial Canal Crossing Locations



Aerial Canal Crossings Improvements Priority 2
 Project Location Map
 WUD Project No. 17-077
 Attachment G



Legend
 ● Canal Crossings in Project

CONSULTANT SERVICES AUTHORIZATION NO. 1

Project Title: Priority Aerial Canal Crossing Improvements Phase 2

Project No. WUD: 17-077

Budget Line Item No.: 4011-721-W019-6547

District No.: 5 & 6

THIS AUTHORIZATION No. 1 to the Contract for Consulting/Professional Services dated June 20, 2017 (R2017-0818), by and between Palm Beach County and the Consultant identified herein, is for the Consultant Services described in Item 3 of this Authorization. The Contract provides for 98% SBE participation overall. This Consultant Services Authorization includes 75.63% overall participation. The cumulative SBE participation, including this authorization is 75.63% overall. Additional authorizations will be utilized to meet or exceed the stated overall participation goal.

1. CONSULTANT: Mock, Roos & Associates, Inc.
2. ADDRESS: 5720 Corporate Way, West Palm Beach, FL 33407
3. Description of Services to be provided by the Consultant:

Mock, Roos, & Associates will provide engineering services including survey, design, permitting, bidding services, and community outreach support for the replacement/rehabilitation of eight (8) aerial canal crossings and new construction of one (1) aerial canal crossing throughout zones 4, 5, and 6. For a description of these engineering services **see ATTACHMENT A.**
4. Services completed by the Consultant to date (Summary and Status of Authorizations):

See ATTACHMENT E.
5. Consultant shall begin work upon receipt of Notice to Proceed correspondence.
6. The compensation to be paid to the Consultant for providing the requested services shall be:
 - A. Computation of time charges plus expenses, not to exceed \$ _____
 - B. Fixed price of \$243,900.00
7. This Authorization may be terminated by the County without cause or prior notice. In the event of termination not the fault of the Consultant, the Consultant shall be compensated for all services performed through the date of termination, together with reimbursable expenses (if applicable) then due.

Project Title: Priority Aerial Canal Crossing Improvements Phase 2

- 8. SBE participation is included in Attachment D under this Authorization. The attached Schedule 1 defines the SBE applied to this Authorization and Schedule 2 establishes the SBE contribution from each subconsultant (Letter of Intent to perform as an SBE).
- 9. EXCEPT AS HEREBY AMENDED, CHANGED OR MODIFIED, all other terms, conditions and obligations of the Contract dated June 20, 2017 remain in full force and effect.

IN WITNESS WHEREOF, this Authorization is accepted, subject to the terms, conditions and obligations of the aforementioned Contract.

PALM BEACH COUNTY, A POLITICAL SUBDIVISION OF THE STATE OF FLORIDA

Sharon R. Bock, Clerk & Comptroller,
Palm Beach County

Palm Beach County,
Board of County Commissioners

ATTEST:

Signed: _____

Signed: _____

Melissa McKinlay, Mayor

JCS

Typed Name: _____
Deputy Clerk

Date

Approved as to Form and Legal
Sufficiency

Signed: _____

Typed Name: _____
County Attorney

CONSULTANT: Mock, Roos & Associates, Inc.

(Signature)

Thomas A. Biggs, P.E., Executive Vice President
(Name and Title)

Date

10/10/17

LIST OF ATTACHMENTS

WUD Project No.: 17-077

Consultant Services Authorization No.: 1

Project Title: Priority Aerial Canal Crossing Improvements Phase 2

ATTACHMENT - A	Scope of Work
ATTACHMENT - B	Budget Summary
ATTACHMENT - C	Project Schedule
ATTACHMENT - D	SBE Schedule 1
ATTACHMENT - E	Authorization Status Report - Summary and Status of Authorizations
ATTACHMENT - F	Authorization Status Report – Summary of SBE Tracking
ATTACHMENT - G	Location Map

ATTACHMENT A

CONSULTANT SERVICES AUTHORIZATION NO. 1

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
ENGINEERING/PROFESSIONAL SERVICES

SCOPE OF WORK
FOR

Priority Aerial Canal Crossing Improvements Phase 2

WUD Project No.: 17-077

INTRODUCTION

Palm Beach County (COUNTY) entered into an agreement entitled Contract for Engineering/ Professional Services – Utility Distribution & Collection System Engineering Services, Water Utilities Department (WUD) Project No.: 17-005 (CONTRACT) with Mock, Roos & Associates, Inc. (CONSULTANT) to provide engineering services for various general activities on June 20, 2017 (Reference Document R2017-0818). This Consultant Service Authorization will be performed under that CONTRACT.

BACKGROUND

The COUNTY is currently implementing projects to rehabilitate the existing water distribution and wastewater collection system and has identified eight (8) aerial canal crossings which require replacement/rehabilitation and one (1) location for construction of a new aerial canal crossing. **ATTACHMENT G** illustrates the location of each crossing. A summary of the location, description, and proposed improvements for each of the crossings are summarized in **Table 1**:

Table 1: Description of Aerial Canal Crossing Locations

Location No.	Zone No.	Location Description	Aerial Canal Crossing Description	Proposed Improvements
1	4	LWDD E-2W Canal, Boca Rio Rd. between Glades Road and Via Ancho Rd.	An existing 16" ductile iron pipe (DIP) watermain and 12" DIP forcemain on existing piles crossing the LWDD E-2W Canal. The existing pipes have corrosion and the lower elbows are below the water surface.	Proposed improvements discussed include replacing the existing pipes, and installing ARVs and fan guards. Optional designs for the crossing include: A. Structural analysis of the existing piles and pile caps. B. Design of new piles and pile caps.
2	4	LWDD E-2W Canal, Boca Rio Rd. just south of SW 18 th St.	An existing 24" DIP watermain and 16" DIP forcemain on existing piles crossing the LWDD E-2W Canal. The existing pipes have corrosion and the lower elbows are below the water surface.	Proposed improvements discussed include replacing the existing pipes, and installing ARVs and fan guards. Optional designs for the crossing include: A. Structural analysis of the existing piles and pile caps. B. Design of new piles and pile caps.

Location No.	Zone No.	Location Description	Aerial Canal Crossing Description	Proposed Improvements
3	5	Grandview Way and Belvedere Rd.	An existing 12" DIP watermain and 8" DIP forcemain on existing piles crossing a Royal Palm Beach canal. The existing pipes have corrosion.	Proposed improvements discussed include replacing the existing pipes, installing ARVs and fan guards, and minor modifications to the pile caps.
4	6	Pedestrian bridge between NW Avenue D and NW 6 th St. Crossings are attached to bridge from W Canal St. S (SR 717) to W Canal St. N	An existing 12" DIP watermain and 8" DIP forcemain are suspended approximately two feet below a pedestrian bridge. The pedestrian bridge crosses the South Florida Water Management District (SFWMD) Hillsboro Canal. The watermain is on the north side of the bridge and the forcemain is on the south side of the bridge. The existing forcemain is not in service and will be plugged on each side and aerial crossing to be removed.	Proposed improvements discussed include installing new watermain piping to bridge at bridge deck height using supports anchored to the bridge structure, installing ARVs and fan guards. The use of line stops during replacement of the pipe was also discussed.
5	6	Bridge south of SE 7 th St. N between E Canal St. N and E. Canal St. S (SR 717)	The existing 8" DIP watermain is attached to the north side of a bridge crossing the SFWMD Hillsboro Canal.	Proposed improvements discussed were relocating the watermain to the south side of the bridge or installing bypass piping and replacing the watermain in its existing location.
6	6	Cross State Hwy (SR 80) east of Glades Glen Drive	The existing 8" DIP watermain crosses South Florida Conservancy District (SFCD) Canal 2. The watermain appears to be self-supporting as it is not attached to the concrete structure below it.	Proposed improvements discussed were attaching the watermain to the Cross State Hwy (SR 80) retaining wall.
7	6	CR 827A south of the intersection with Cross State Hwy (SR 80)	The existing 8" DIP watermain crosses SFCD Lateral 1-5S Canal. The watermain has shifted to the northern edge of its concrete support. It is not attached to the structure.	Proposed improvements discussed were removing the aerial crossing and relocating the watermain within Cross State Hwy (SR 80) right-of-way to a point of connection near the Medical Access Center.
8	6	West side of NW 16 th St. (SR 715) approximately 1200 feet to the north of NW Avenue P - near Everglades Farm Equipment dealer.	The existing 6" watermain crossing SFCD Lateral 1-2 Canal. There is currently no clearance between the watermain and the existing perpendicular CMP culvert that runs east-west. Existing rocks (rubble) at the culvert are not stable and some have fallen into the canal. Existing valves could not be located.	Proposed improvements discussed were relocation of the aerial crossing west of the culvert to eliminate the crossing at the culvert. A free standing aerial crossing of the canal is anticipated. One new watermain and one saddle for a potential future pipe crossing.

Location No.	Zone No.	Location Description	Aerial Canal Crossing Description	Proposed Improvements
9	6	SE 1 st Ave near the intersection with SE 3 rd St	Future location for an 8" DIP watermain crossing the SFWMD L-20 Canal.	Proposed improvements discussed include construction of concrete piles with a pile cap width capable of supporting two pipes. One new watermain and one saddle for a potential future pipe crossing.

SCOPE OF SERVICES

CONSULTANT shall proceed with the surveying, design, permitting, bidding services, and community outreach support services necessary to prepare detailed drawings for the project in accordance with the COUNTY's Minimum Engineering and Construction Standards and applicable permitting agencies. Further description of the anticipated Scope of Services includes the following:

Task 1 - Surveying Services

1.1. Preparation of a Survey Basemap

CONSULTANT will coordinate surveying services to provide land surveying of existing aerial crossings and surrounding area, vertical and horizontal control and data, inclusive of canal cross section(s) at each of the sites. CONSULTANT shall coordinate the preparation of a Survey Basemap for preparation of CONSULTANT's construction drawings. Topographic survey shall be in the state plane coordinate system of North American Datum 1983, 90 Adjustment (NAD83/90) horizontally and the North American Vertical Datum of 1988 (NAVD88) vertically.

Survey Basemap will include the following:

1. Depiction of property lines and right-of-way lines based on the Palm Beach County Parcel Lines as downloaded from Palm Beach County GIS Department.
2. A minimum of two Horizontal and Vertical Control Points at each aerial crossing site.
3. Topographic survey data depicting canal edges for the top of bank and edge of water, pavement edges, above ground and visible utilities such as water valves, fire hydrants, pipe fittings, top of pipes as visible at aerial crossings, support decks and columns for existing aerial crossings, storm structures (catch basins /manholes / outfall pipes), sanitary manholes, electric hand holes, etc., together with paint marks /flags as established by subsurface scanning methods depicting the approximate location of the said subsurface facilities at ground level and topographical spot elevations within the general limits of the proposed facilities as discussed at the on-site observation of each site.
4. GPS coordinates for all field located water meter and valve box locations.
5. Canal cross sections at pile supported canal crossings.

1.2. Sketch and Legal Descriptions

CONSULTANT will provide Title Search and Legal Sketch and Descriptions for up to four proposed Utility Easements for parcels to be determined during the 60% design phase.

Task 2 – Engineering Services

2.1. Record Drawings Review

The CONSULTANT shall research, review and study record information, GIS database information, and other pertinent information of the existing facilities within the project limits that are provided by the COUNTY.

2.2. Project Meetings and Site Visits

The CONSULTANT shall attend up to four meetings (kick off, 30%, 60%, and 90%) with COUNTY to review design progress. CONSULTANT will lead meetings and provide a meeting agenda. Meeting minutes to be provided within three (3) calendar days of each meeting. These meetings will be exclusive of other meetings identified herein.

CONSULTANT shall perform up to two site visits at each aerial crossing in conjunction with the utility coordination and subsurface exploration.

2.3. Utility Coordination

Produce preliminary Engineering Basemap incorporating the Survey Basemap and other known existing infrastructure identified in the area based on the information provided by the COUNTY. Submit preliminary Engineering Basemap to local utilities for mark-up of their existing utilities. CONSULTANT will coordinate with each utility and provide follow-up communications as necessary. Utilities include, but not limited to, telephone, cable, gas, forcemains, and watermains. Incorporate utility mark-ups into Engineering Basemap and produce preliminary Base Sheets. CONSULTANT will submit preliminary Base Sheets to COUNTY for review and comment. CONSULTANT will incorporate COUNTY comments into Final Base Sheets.

2.4. Subsurface Utility Exploration

CONSULTANT will coordinate geotechnical/testing laboratory services to provide two subsurface soils investigation (SPT boring to 50 feet below grade) at crossing locations where it is determined new pile supports are required. (12 Soil Borings).

CONSULTANT will provide and coordinate the underground location services to confirm existing subsurface utility locations, as necessary to advance engineering design to 60% completion. Utilities will be located by an air/vacuum excavation method (including temporary surface restoration). A total of 54 air/vacuum excavations (six per site) are included.

2.5. Preliminary Design and Review

Develop and submit preliminary construction drawings using Final Base Sheets. These drawings will provide graphic representation of the conceptual design intent of the preliminary (30%) design, alignment, and layout at each of the locations. These drawings will include conceptual layouts on plan sheets only (no profile) and will constitute the 30% completion level submittal for review and comment. Advancement of construction drawings by CONSULTANT beyond 30% completion will be based on concurrence from COUNTY regarding the agreed-to design intent at each of the sites.

CONSULTANT will meet with COUNTY to review the 30% completion level submittal, respond to questions/comments, and incorporate final agreed to comments. CONSULTANT will compile and address all comments on the COUNTY'S Quality Review Form.

2.6. 60 Percent Design and Review

CONSULTANT shall prepare and submit construction drawings at the 60% completion level. CONSULTANT shall provide three (3) full size sets and two (2) half size sets. These drawings will generally consist of a cover sheet, key sheet, plan and profile sheets, structural sheets and detail sheets. CONSULTANT will provide and coordinate structural engineering services relative to all crossings as needed. CONSULTANT shall provide a list of specification sections.

CONSULTANT shall meet with COUNTY to review 60% completion submittal, respond to questions/comments, and incorporate final agreed to comments. CONSULTANT will compile and address all comments in the PBCWUD Quality Review Form.

2.7. 90 Percent Design and Review

CONSULTANT shall prepare and submit construction drawings including structural sheets at the 90%. CONSULTANT shall provide three (3) full size sets and two (2) half size sets. CONSULTANT will also provide two (2) copies of the draft specifications and an Opinion Probable Construction Cost (OPCC) along with the schedule of values.

CONSULTANT shall meet with COUNTY to review 90% completion submittal, respond to questions/comments, and incorporate final agreed to comments. CONSULTANT will compile and address all comments in the PBCWUD Quality Review Form.

2.8. 100 Percent Design and Review

CONSULTANT shall provide final design phase deliverables consisting of construction drawings, specifications, OPCC, and other documents in paper copies, PDF files, and AutoCAD and Microsoft Word files. CONSULTANT shall provide three (3) full size sets and two (2) half size drawing sets. CONSULTANT will also provide two (2) copies of the draft specifications and an Opinion Probable Construction Cost (OPCC) along with the schedule of values.

Task 3 – Permitting Services

3.1 Permitting with Regulatory Agencies

Research and document permitting requirements for each of the locations. Permitting will be on a site-by-site basis as each location may require permitting from several/different agencies, which may include Army Corps of Engineers (ACE), Palm Beach County Health Department (PBCHD), South Florida Water Management District (SFWMD), Lake Worth Drainage District (LWDD), Belle Glade, Royal Palm Beach, Palm Beach County Fire Rescue, Palm Beach County Engineering, Florida Department of Transportation (FDOT), FDOT Turnpike Authority, and South Florida Conservancy District (SFCD). CONSULTANT shall perform preliminary permitting investigation.

In addition to preparing the permit applications for appropriate regulatory agencies, CONSULTANT shall assist the COUNTY in consultations with the appropriate authorities. CONSULTANT services shall include the following:

1. Attend meetings with each of the regulatory agencies during review of the final permit applications as required.
2. Respond to up to two (2) request(s) for additional information from each regulatory agency.
3. Provide COUNTY with one (1) set of approved plans from permitting agencies, as may be applicable.
4. Prepare and submit permit applications (COUNTY to provide hydraulic calculations/data as may be required by Health Department or others).

COUNTY will be responsible for all permit application fees.

Task 4 – Bidding Services

4.1. Bidding Assistance

The CONSULTANT will perform, as required by the COUNTY, the following services during the bidding and negotiating phase:

1. Provide Technical Specifications and Construction Drawings to be included in bid documents
2. Assist with pre-bid meeting agenda, attend pre-bid meeting and site visit, and review and comment on meeting minutes before issuance to plan holders
3. Provide answers to questions bidders may have concerning the bid documents and prepare draft addenda as necessary to clarify the bid documents
4. Attend the bid opening and prepare the bid tabulation form
5. Evaluate bids and prepare a recommendation of award

Task 5 – Community Outreach Services

5.1 Community Outreach Support

The CONSULTANT shall assist the COUNTY and their Community Outreach Consultant towards the acquisition of the easement(s) required for the project, the pre-construction public notices and community outreach meeting. The CONSULTANT services include coordination and correspondence with the COUNTY and their Community Outreach Consultant, preparation of exhibits and attending up to two (2) community outreach meetings.

COMPENSATION

The CONSULTANT shall provide assistance to the County in accordance with the attached budget for a project total of \$243,900.00 .

SBE PARTICIPATION

1. SCHEDULE 3(A) – Professional Services Activity Report

This form shall be submitted by the prime contractor with each payment application when SBE and/or M/WBE sub-consultants are utilized in the performance of the contract. This form shall contain the names of all SBE and M/WBE sub-consultants, specify the sub-consultants dollar amount for each sub-consultants and show amount drawn and payments to date issued to sub-consultants.

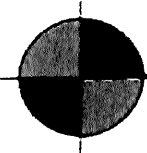
2. SCHEDULE 4 – SBE-M/WBE Payment Certification

A schedule 4 for each SBE and/or M/WBE sub-consultant shall be completed and signed by the proposed SBE and/or M/WBE after receipt of payment from the prime. When applicable, the prime shall submit this form with each application submitted to the county for payment to document payment issued to a sub-consultant in the performance of the contract.

SBE participation is included in the **ATTACHMENT F** under this authorization. The attached Schedule 1 defines the SBE applied to this CSA/Contract and Schedule 2 establishes the SBE contribution from each subcontractor (Letter of Intend to perform as an SBE).

ATTACHMENT B
CSA NO. 1 , Priority Aerial Canal Crossing Improvements Phase 2
BUDGET SUMMARY

		Labor Classification and Hourly Rate										
		Mock•Roos										
Task No.	Task Description	Principal	Senior Project Manager	Senior Project Engineer	Project Engineer II	Project Engineer I	Senior CADD Designer	Senior Field Representative	Senior Admin. Assist.	Mock•Roos Total Labor	Subconsultant	Total
1	SURVEYING SERVICES											
1.1	Surveying Services	2	12	0	18	0	0	0	0	\$4,280.22	\$40,425.00	1 \$44,705.22
1.2	Title Search, Legal Sketch & Description	0	0	0	0	0	0	0	0		\$5,000.00	1 \$5,000.00
2	ENGINEERING SERVICES											
2.1	Record Drawing Review	0	0	0	18	0	0	0	0	\$1,982.52		\$1,982.52
2.2	Project Meetings and Site Visits	6	28	0	40	0	0	0	12	\$10,895.18		\$10,895.18
2.3	Utility Coordination	0	4	0	16	0	48	0	4	\$7,690.48		\$7,690.48
2.4	Subsurface Utility Exploration	0	8	0	0	0	8	0	2	\$2,233.60	\$41,430.00	2,3 \$43,663.60
2.5	Preliminary Design and Review	2	24	0	48	0	32	0	4	\$13,096.02		\$13,096.02
2.6	60% Design and Review	4	36	0	72	0	108	0	4	\$25,979.84	\$39,900.00	3 \$65,879.84
2.7	90% Design and Review	4	24	0	52	0	80	0	4	\$18,967.48		\$18,967.48
2.8	100% Design and Review	2	8	0	8	0	8	0	4	\$3,671.14		\$3,671.14
3	Permitting Services											
3.1	Permitting	8	32	0	60	0	24	0	8	\$16,364.40		\$16,364.40
4	Bidding Services											
4.1	Bidding Assistance	8	12	0	24	0	0	0	8	\$6,752.32		\$6,752.32
5	Community Outreach Services											
5.1	Community Outreach Support	8	12	0	12	0	0	0	4	\$5,146.64		\$5,146.64
	Labor Subtotal Hours	44	200	0	368	0	308	0	54	\$117,059.84	\$126,755.00	
	Raw Labor	\$72.96	\$55.26	\$58.24	\$38.78	\$27.90	\$36.80	\$39.00	\$25.00			
	Multiplier	2.84	2.84	2.84	2.84	2.84	2.84	2.84	2.84			
	Labor Hourly Rate	\$207.21	\$156.94	\$165.40	\$110.14	\$79.24	\$104.51	\$110.76	\$71.00			
	Labor Totals	\$9,117.24	\$31,388.00	\$0.00	\$40,531.52	\$0.00	\$32,189.08	\$0.00	\$3,834.00	\$117,059.84	\$126,755.00	
	Subconsultant Multiplier											
	Subconsultant Total with Markup											
	Reimbursable Expenses (Reproducibles, etc.)	\$85.16										
	Project Totals	\$243,900.00										
Subconsultants												
1. Dennis J. Leavy & Associates, Inc.												
2. Tierra South Florida												
3. WGI, Inc.												



DENNIS J. LEAVY & ASSOC.

LAND SURVEYORS • MAPPERS

Revised: August 11, 2017
April 26, 2016

via Email: Thomas.biggs@mockroos.com

Mr. Thomas A. Biggs, P.E.
Mock-Roos & Associates, Inc.
5720 Corporate Way
West Palm Beach, FL 33407

**RE: PROFESSIONAL LAND SURVEYING SERVICES – PBCWUD AERIAL CROSSING SITES,
(DJLA #16-025-001)**

Mr. Biggs:

In response to your request for professional land surveying services, we are pleased to offer the following tasks and their respective fees. This **proposal** is based upon our review of the information provided in our previous correspondence and our interpretation of the necessary land surveying services required to successfully meet your requirements for this project.

I. TOPOGRAPHIC SURVEY PREPARATION:

Prepare a Topographic Survey as defined in Rule 5J-17.050 (10)(k) of the Standards of Practice adopted by the Board of Professional Surveyors and Mappers.

In particular the survey will depict the following for each of the nine (9) individual aerial crossing sites per the e-mails received from your office on February 2, 2016 and August 8, 2017:

- A. Topography at major ground elevation changes to depict existing ground profile at proposed project area. All topographical surveys shall have stationing established from south to north and west to east. This shall be accomplished by creating a baseline in the field to collect pertinent data which shall include the following:
1. Obtain horizontal and vertical control for this Project using information published by the Palm Beach County Survey Department utilizing State Plane Coordinates for horizontal control and the North American Vertical Datum of 1988 (NAVD 88) for vertical control.
 2. Location of visible fixed improvements within the existing aerial crossing sites, including physical objects, roadway pavement, driveways, sidewalks, walls, curb, railroad tracks, drainage swales, trees, signs, fences, power poles and buildings.



3. Location of above ground existing utilities: FP&L, BellSouth, Cable TV, Natural Gas, Potable Water (valves, fire hydrants, and meters), Force Mains (valves), Sanitary Sewer, Reclaimed Water Mains (valves), Storm Sewers. Including invert elevations, pipe size, type and direction for storm and sanitary infrastructure.
4. Elevations shall be indicated at 50 foot stations, at a minimum, to indicate existing grades. Intermediate grades shall be indicated at all significant grade breaks.
5. Provide and reference site benchmarks. Elevations to be referenced to an existing established City or County Benchmark.

NOTE: Subsurface utility markouts are not a part of this scope of services.

- B. Prepare a Sketch and Description as defined in as defined in Rule 5J-17.052 (5)(a)(b) of the Standards of Practice adopted by the Board of Professional Surveyors and Mappers for four (4) of the proposed nine (9) individual aerial crossing sites.
- C. Provide three (3) blackline signed and sealed sets of the drawing at 1" = 20' scale and a computer disk with survey and drawing information compatible with AutoCAD Civil 3D Version 2018.
- D. Sub-Consultant (Statewide Land Title) will provide an Owner and Encumbrance report for four (4) of the nine (9) individual parcel sites.

TOTAL FEES FOR THE ABOVE SERVICES:.....\$ 45,425.00

It is the client's/owner's responsibility to review the scope of services proposed within this contract to insure that the services required to successfully complete this project will be provided.

The following statement is required by the State of Florida Statutes.

PURSUANT TO SECTION 558.0035 OF THE FLORIDA STATUTES, AS AMENDED, AN INDIVIDUAL EMPLOYEE OR AGENT OF DENNIS J. LEAVY & ASSOCIATES, INC. MAY NOT BE HELD INDIVIDUALLY LIABLE FOR NEGLIGENCE.

The above fees are subject to the following conditions:

1. Orders for construction staking will be requested via email using a Work Order Form which will be provided to you by our office.
2. Orders for construction staking are to go through our office for scheduling, not through field personnel and require a minimum of forty-eight (48) hour notice.
3. The fees shown herein are for the staking of each item one (1) time only.
4. Two (2) sets of approved plans for each item are to be furnished to our office with CAD disc of same along with one (1) copy of the existing survey of the subject property.
5. All information necessary to build this project must be provided to this firm both digitally and in hard format from the design engineering in a timely fashion.
6. All fees stated herein are based on the site being clear and void of all vegetation and debris, if not, a fee of \$1.00 per linear foot of manually cleared line will be applied to the task being performed. In the event the contractor can supply machinery and labor to clear line, a fee of \$0.50, for supervision, per linear foot of cleared line will be applied to the task being performed.
7. This proposal is **valid for ninety (90) calendar days** from the date which first appears on this proposal. After ninety (90) days, Dennis J. Leavy & Associates, Inc. reserves the right to review and modify the fee(s) and/or time schedule(s) stated in this proposal-
8. Any services not included in this Proposal will be considered Additional Services. Additional Services will be provided at the hourly rates in effect at the time the services are requested, plus reimbursable expenses or for an agreed upon lump sum fee.
9. Sub-Consultant Fees (Title Search, Underground Locates, etc.) will be invoiced at Cost plus 10%.

DJLA Current Hourly Rates:

Principal	\$140.00/hr.
Professional Surveyor and Mapper	\$125.00/hr.
Field Survey crew (truck, conventional survey equipment)	\$140.00/hr.
Survey Associate.....	\$100.00/hr.
Computer Draftperson	\$ 85.00/hr.
Office	\$ 75.00/hr.
Prints	\$ 1.00/s.f.

These fees do not include the cost of any governmental agency submittal fee or hard costs for printing, reproductions or fees for full-time construction supervision. Representation before public bodies, review agencies, etc. will be done at applicable hourly rates. This includes, but is not limited to, any administrative processing that may be required for submittal to the various municipal and county agencies. Payment is due upon receipt of the invoice and will be considered delinquent if payment is not received within thirty (30) days of the date of said invoice. A late payment finance charge will be assessed at the rate of 1.5% per month (18% annual percentage) if payment is not received within thirty (30) days of the invoice date.

The obligation to provide services under this agreement may be terminated by either party upon receipt of written notice within seven (7) days in the event of a substantial failure by the other party to perform in accordance with the terms thereof through no fault of the terminating party. In the event of termination, Dennis J. Leavy & Associates, Incorporated shall be paid for all services rendered to the date of termination including all reimbursable expenses and termination expenses. Liability of this contact is limited to not exceed the fees stated herein. Revisions and/or additional services required outside of this agreement will be invoiced as an addendum to this contract. Fees for revisions and/or additional services will be invoiced based on our current hourly/unit rates.

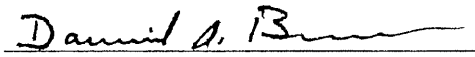
This agreement, consisting of five (05) pages, represents the entire understanding between **Dennis J. Leavy & Associates, Incorporated** and **Mock-Roos & Associates, Inc.**, with respect to the project and may only be modified in writing, signed by all parties.

Thank you in giving us the opportunity to bid this project. We hope to hear from you shortly. If the terms and conditions contained herein are acceptable, please sign and return a copy of this proposal to our office.

Should you have any questions regarding the above, please do not hesitate to contact me.

Sincerely,

DENNIS J. LEAVY & ASSOCIATES, INC.



David A. Bower, P.S.M.
Vice President

Revised : August 11, 2017
April 26, 2016
PBCWUD Aerial Crossing Sites (DJLA #16-025-001)
Page 5 of 5

ACCEPTANCE OF PROPOSAL: The fees, terms and conditions, and specifications contained herein are satisfactory and are hereby accepted. Dennis J. Leavy & Associates, Incorporated is authorized to perform the work as specified.

**RE: PROFESSIONAL LAND SURVEYING SERVICES – PBCWUD AERIAL CROSSING SITES,
(DJLA #16-025-001)**

PROPOSAL ACCEPTED BY:

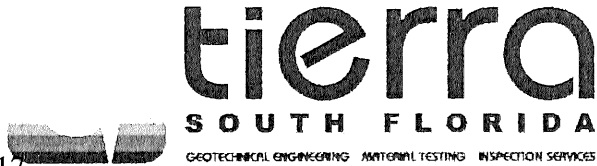
Name and title

Firm name

Date of acceptance

The following statement is required by the State of Florida Statutes.

**PURSUANT TO SECTION 558.0035 OF THE FLORIDA STATUTES,
AS AMENDED, AN INDIVIDUAL EMPLOYEE OR AGENT OF
DENNIS J. LEAVY & ASSOCIATES, INC. MAY NOT BE HELD
INDIVIDUALLY LIABLE FOR NEGLIGENCE.**



Revised August 10, 2017
Revised March 8, 2016
February 5, 2016

Mock Roos & Associates, Inc.
5720 Corporate Way
West Palm Beach, Florida 33407

Attn: Mr. Thomas Biggs, P.E.
Executive Vice President

Re: Geotechnical Engineering Services
PBCWUD CSA 16-Glades Aerial Crossings# 20, 26, and New Aerial Crossings
Belle Glades, Florida
TSF Proposal No. 1602-059_1

Dear Tom:

TIERRA SOUTH FLORIDA, Inc. (TSF) is pleased to submit this proposal for providing a subsurface exploration for proposed new aerial crossing, and replacement of #20, and 26 aerial crossings in Belle Glades, Florida. This proposal includes an outline of our proposed scope of work, an estimate of the total job cost, and our anticipated schedule for completion of the work.

SCOPE OF SERVICE

Our scope of work will consist of drilling twelve (12) Standard Penetration Test (SPT) borings to a depth 50 feet below existing grade. Some adjustments in the boring depths may be necessary depending upon the subsurface conditions encountered. After review by our Geotechnical Engineer and Mock Roos, boring depths may be adjusted as deemed appropriate by the engineers

Within the borings, penetration resistance testing will be performed in general accordance with the requirements of ASTM designation D 1586. Borings will be approximately located in the field by our drilling personnel by measuring distances with a tape from known reference points. Elevations at boring locations can be interpreted from a topographic plan if furnished by others. Prior to drilling at the project site, TSF will notify the local utility companies and request that underground utilities be marked. Our proposal assumes that private utility lines will be located in the field by others prior to mobilization of the drill rig. TSF will recommend a utility line locating service upon request. Upon completion of the field exploration, laboratory testing will be performed on selected samples. A geotechnical engineer will evaluate the results of all drilling and laboratory testing. A report containing subsurface profile and pile capacity curves will be issued.

ESTIMATED COST

It is proposed that the fee for the performance of the initial services outlined above will be **\$21,980** as indicated on the attached fee breakdown.

Our estimate covers the work needed to present our findings. Not included are reviews of foundation drawings, preparation of construction specifications, special conferences and any other work requested after submittal of our report. This proposal assumes that access to the proposed boring locations can be accomplished with a truck mounted drill rig.

Boring, sampling, and testing requirements are a function of the subsurface conditions encountered. Therefore, the estimated cost previously indicated is approximate, and compensation for the exploration will be based on the actual work and tests performed. We will endeavor to keep the exploration cost at a minimum consistent with good engineering practice.


SCHEDULE AND AUTHORIZATION

TSF will proceed with the work after receipt of a signed copy of this proposal. With our present drilling schedule, we can commence work within several days of project approval (weather permitting) and fieldwork is expected to take about 4 working days to complete. The report can be submitted three weeks after completion of the field exploration.

We at TSF appreciate the opportunity to submit this proposal and look forward to working with you on this project. If you should have any questions concerning our proposal, please contact our office.

Respectfully submitted,

TIERRA SOUTH FLORIDA, INC.


Ramkumar Vedula, P.E.
Principal Engineer

KV:
Attachments: 1. Fee Breakdown

AUTHORIZED BY:	INVOICE TO:
Firm:	Firm:
Name:	Name:
Title:	Address:
Date:	Phone #:
	Fax #:

TIERRA SOUTH FLORIDA, INC.
ATTACHMENT - 1
FEE SCHEDULE FOR GEOTECHNICAL SERVICES

TIERRA SOUTH FLORIDA, INC.

	Unit	# of Units	Unit Price	Total
I. FIELD INVESTIGATION				
Mobilization of Men and Equipment Truck-Mounted Equipment	Trip	1	\$ 350.00	\$ 350.00
Support Vehicle	Trip	6	\$ 150.00	\$ 900.00
Standard Penetration Test Borings (By Truck-Mounted Equipment)				
0 - 50 ft depth	L.F.	600	\$ 12.00	\$ 7,200.00
50 - 100 ft depth	L.F.	0	\$ 14.00	\$ 0.00
Grout-Seal Boreholes (By Truck-Mounted Equipment)				
0 - 50 ft depth	L.F.	600	\$ 5.50	\$ 3,300.00
50 - 100 ft depth	L.F.	0	\$ 6.50	\$ 0.00
MOT - Traffic Cones	Day	8	\$ 350.00	\$ 2,800.00
II. LABORATORY TESTING				
Visual Examination by Staff Engineer	Hour	8	\$ 85.00	\$ 680.00
Natural Moisture Content Tests	Test	6	\$ 20.00	\$ 120.00
Full Grain-Size Analysis - (8 sieves)	Test	6	\$ 75.00	\$ 450.00
Grain-Size Analysis - Single Sieve	Test	0	\$ 25.00	\$ 0.00
Organic Content Tests	Test	8	\$ 50.00	\$ 400.00
Atterberg Limit Tests	Test	0	\$ 80.00	\$ 0.00
Environmental Tests (pH, sulfates, chlorides, resistivity)	Set	6	\$ 185.00	\$ 1,110.00
III. FIELD ENGINEERING AND TECHNICAL SERVICES				
Site Recon./Utility Coordination/Traffic Control Sr. Engineering Technician	Hour	16	\$ 65.00	\$ 1,040.00
IIIA. ENGINEERING AND TECHNICAL SERVICES				
Principal Engineer	Hour	1	\$ 150.00	\$ 150.00
Senior Geotechnical Engineer	Hour	6	\$ 130.00	\$ 780.00
Engineer, P.E.	Hour	16	\$ 120.00	\$ 1,920.00
Draftperson	Hour	12	\$ 65.00	\$ 780.00
FEE FOR INITIAL GEOTECHNICAL SERVICES				\$ 21,980.00



August 29, 2017 (Revised)
August 14, 2017

Mock•Roos & Associates
5720 Corporate Way
West Palm Beach Florida 33407

Attn: **Shampale Holland, P.E.**
shampale.holland@mockroos.com

Re: Palm Beach County Water Utility Department Nine (9) Aerial Crossings
Structural and SUE Services

Dear Shampale,

Wantman Group, Inc. (WGI) is pleased to provide this proposal to **Mock•Roos & Associates** (CLIENT) for professional services on the above referenced project. Our scope of services and corresponding fees are detailed below. In addition, it is agreed that WGI's services will be performed pursuant to WGI's "Agreement Provisions" which are enclosed and incorporated into this proposal.

PROJECT UNDERSTANDING

Structural and Subsurface Utility Engineering (SUE) Services for nine (9) aerial crossings at various locations in Palm Beach County for Palm Beach County Water Utility Department (PBCWUD).

SCOPE OF SERVICES

STRUCTURAL ENGINEERING SERVICES

TASK I

\$39,900.00

Structural design and construction documents for crossings 4,5,6,8,and 9. Our design will be based on PBCWUD Standards and site specifically on South Florida Conservancy District (SFCD), South Florida Water Management District (SFWMD) and Lake Worth Drainage District (LWDD) Standards. Structural evaluations of crossings 1, 2 and 3 will be performed and a letter report documenting the evaluation produced for each crossing. **Geotechnical Investigations, Surveying for the crossing and cross sections and permitting are excluded from this proposal.**

A. LOCATION NO. 1 - LWDD E-2W-Boca Rio

\$ 3,000.00

Boca Rio Road (Boca Grove) West of the turnpike.
Proposed improvements include replacing the existing watermain and forcemain using the existing piles and pile caps. *Only structural evaluation of the existing support is requested.*

B. LOCATION NO. 2 - LWDD E-2W-18th

\$ 3,000.00

SW 18th (Boca Grove) West of the turnpike.
Proposed improvements include replacing the existing watermain and forcemain using the existing piles and pile caps. *Only structural evaluation of the existing support is requested.*

- C. **LOCATION NO. 3 - Unnamed Royal Palm Beach Canal Extension of LWDD S-3** \$ 3,000.00
Grand View Way and Belvedere Road.
Proposed improvements include replacing the existing watermain and forcemain using the existing piles and pile caps. *Only structural evaluation of the existing support is requested.*
- D. **LOCATION NO. 4 - L-20 (Hillsboro Canal)** \$ 6,300.00
Pedestrian bridge north of Lake Shore Middle School between W. Lake Road and W. Canal Street S (SR 717).
Proposed improvements include installing new watermain piping to bridge at bridge deck height using supports anchored to the bridge structure, installing ARVs and fan guards.
- E. **LOCATION NO. 5 - L-20 (Hillsboro Canal)** \$ 5,900.00
Bridge south of SE 7th Street N. between E Canal Street N and E Canal Street S (SR 717).
Proposed improvements included relocating the watermain to the south side of the bridge or installing bypass piping and replacing the watermain in its existing location.
- F. **LOCATION NO. 6 – SFCD Canal 2** \$ 5,900.00
Cross State Highway (SR 80) east of Glades Glen Drive.
Proposed improvements included attaching the watermain to the Cross State Highway (SR 80) retaining wall.
- G. **LOCATION NO. 7 – SFCD Lateral 1-5S (No structural Work)** N/A
CR 827A south of the intersection with Cross State Highway (SR 80).
Proposed improvements included removing the aerial crossing and relocating the watermain within Cross State Highway (SR 80) right-of-way to a point of connection near the Medical Access Center.
- H. **LOCATION NO. 8 – SFCD Lateral 1-2** \$ 5,700.00
West side of SR 715 near Everglades Farm Equipment dealer.
Proposed improvements included relocation of the aerial crossing west of the culvert to eliminate the crossing at the culvert. A free-standing aerial crossing of the canal is anticipated.
- I. **LOCATION NO. 9 - L-20 New Crossing** \$ 7,100.00
SE 1st Avenue near the intersection with SE 3rd Street.
Proposed improvements include construction of concrete piles with pile cap width capable of supporting two pipes. One new watermain and one saddle for a potential future pipe crossing.

SUE SERVICES

TASK II

\$19,450.00

1. Mobilize to Project Site and perform electromagnetic and ground penetrating radar investigations throughout the accessible areas of the defined work limits;
2. Designate utilities found in the field and mark with flagging and paint; 100' radius of existing aerial crossings and bridges;
3. Take digital photographs of marked utilities;
4. Provide field sketches of marked utilities;
5. Survey marked utilities;
6. Demobilize from project site and review/analyze field data. Prepare a deliverable for each site; and
7. Provide CAD Drawing of marked/surveyed utilities



- A. **LOCATION NO. 1 LWDD - E-2W-Boca Rio** **\$ 1,850.00**
Boca Rio Road (Boca Grove) West of the turnpike.
Proposed improvements include replacing the existing watermain and forcemain using the existing piles and pile caps.
- B. **LOCATION NO. 2 LWDD - E-2W-18th** **\$ 1,850.00**
SW 18th (Boca Grove) West of the turnpike.
Proposed improvements include replacing the existing watermain and forcemain using the existing piles and pile caps.
- C. **LOCATION NO. 3 - Unnamed Royal Palm Beach Canal Extension of LWDD S-3** **\$ 2,250.00**
Grand View Way and Belvedere Road.
Proposed improvements include replacing the existing watermain and forcemain using the existing piles and pile caps.
- D. **LOCATION NO. 4 - L-20 (Hillsboro Canal)** **\$ 2,250.00**
Pedestrian bridge north of Lake Shore Middle School between W. Lake Road and W. Canal Street S (SR 717).
Proposed improvements include installing new watermain piping to bridge at bridge deck height using supports anchored to the bridge structure, installing ARVs and fan guards.
- E. **LOCATION NO. 5 - L-20 (Hillsboro Canal)** **\$ 2,250.00**
Bridge south of SE 7th Street N. between E Canal Street N and E Canal Street S (SR 717).
Proposed improvements included relocating the watermain to the south side of the bridge or installing bypass piping and replacing the watermain in its existing location.
- F. **LOCATION NO. 6 – SFCD Canal 2** **\$ 2,250.00**
Cross State Highway (SR 80) east of Glades Glen Drive.
Proposed improvements included attaching the watermain to the Cross State Highway (SR 80) retaining wall.
- G. **LOCATION NO. 7 – SFCD Lateral 1-5S (No structural Work)** **\$ 2,250.00**
CR 827A south of the intersection with Cross State Highway (SR 80).
Proposed improvements included removing the aerial crossing and relocating the watermain within Cross State Highway (SR 80) right-of-way to a point of connection near the Medical Access Center.
- H. **LOCATION NO. 8 – SFCD Lateral 1-2** **\$ 2,250.00**
West side of SR 715 near Everglades Farm Equipment dealer.
Proposed improvements included relocation of the aerial crossing west of the culvert to eliminate the crossing at the culvert. A free-standing aerial crossing of the canal is anticipated.
- I. **LOCATION NO. 9 L-20 New Crossing** **\$ 2,250.00**
SE 1st Avenue near the intersection with SE 3rd Street.
Proposed improvements include construction of concrete piles with pile cap width capable of supporting two pipes. One new watermain and one saddle for a potential future pipe crossing.

BASIS OF THIS PROPOSAL

This proposal is based on the following:

1. CLIENT shall provide existing CAD drawings, survey data and record drawings, if available.
2. Utility records research is not included;
3. Permits and Permit fees are not included, and if needed are the responsibility of the CLIENT;
4. Quality Level "A", vacuum excavation, is not included in this proposal, but may be included at a later date once a scope of service is defined and fees are negotiated; and
5. Geophysical designating techniques, although highly reliable, are subject to outside interference which are beyond the control of WGI, and may impede the effectiveness of the subsurface utility investigations. Soil conditions, utility materials, size, depth, salt water, and conductivity may prevent the location of some subsurface utilities. WGI utilizes state of the art equipment and methodology during all phases of utility investigation, but no guarantee is hereby expressed that all utilities will be detected.
6. WGI shall be entitled to rely on the completeness and accuracy of all information provided by CLIENT. Information requested by WGI during the project will include, but may not be limited to utilities and drainage plans, environmental assessments and geotechnical reports;
7. All submittal from WGI to the CLIENT will be delivered electronically in Adobe PDF. Submittal reproductions and copies will be produced by **Mock Roos & Associates**.
8. Civil engineering specifications and details will be included in the construction plans;
9. Significant site plan modifications will require an amendment to this contract. WGI will submit a separate proposal for those services;
10. Additional submittals and coordination with permitting agencies not due to WGI's work will be invoiced on an hourly basis;
11. Coordination and design of proposed electrical, telephone, television and gas utilities shall be completed by others. WGI will exchange drawings with these entities for coordination purposes and to incorporate their existing and proposed features into our plans for conflict resolution and informational purposes;
12. The project will be and designed and permitted under one phase;
13. Services not included: Civil, Landscaping, Architectural, Irrigation, Lighting, Title Search, Traffic, Environmental, Geotechnical Survey, Permitting and Construction Phase Services.

INFORMATION REQUIRED

The following additional information will be required to begin design services on this project:

1. AutoCAD and PDF files of proposed site plans;
2. Geotechnical report including vertical and lateral soil parameters;
3. Site surveys for each of the nine aerial crossings shall be detailed for use as a structural base map. Surveys shall also include cross-sections of the crossings and be tied to right-of-way and/or property lines.

Mock•Roos & Associates

August 29, 2017

Page 5 of 5

Any additional optional services requested by CLIENT will be provided in accordance with WGI's hourly fee schedule in effect at the time of service, or a fixed fee to be negotiated once a scope of service is defined.

We appreciate the opportunity to be of service to **Mock Roos & Associates**

Respectfully submitted,

WGI



Brian Rheault, PE
Structural Project Principal

JRB:kedM:\2017 Proposals\Counties\Palm Beach County\PBCWU 9 Aerial Crossings-MRA\Structural Proposal\PBCWUD 9 Crossings-Proposal MRA.docx

 **WGI**
www.WGIinc.com

ATTACHMENT - C

PROJECT SCHEDULE

The completion dates for this work will be as follows (starting from CONSULTANT'S receipt of Notice-to-Proceed).

<u>Task</u>	<u>Description</u>	<u>Calendar Days</u>
1	Surveying Services	
1.1	Survey Basemap	75 Days
1.2	Sketch and Legal Descriptions	
2	Engineering Services	
2.1	Record Drawing Review	15 Days
2.2	Project Meetings and Site Visits	
2.3	Utility Coordination	110 Days
2.4	Subsurface Utility Exploration	120 Days
2.5	Preliminary Design and Review	150 Days
2.6	60% Design and Review	220 Days
2.7	90% Design and Review	250 Days
2.8	100% Design and Review	300 Days
3	Permitting Services	
3.1	Permitting	270 Days
4	Bidding Services	
4.1	Bidding Assistance	TBD
5	Community Outreach Services	
5.1	Community Outreach Support	TBD

Total anticipated duration for Tasks 1 – 3 of this CSA = 300 calendar days from Notice to Proceed.

OSBA Schedule 3(A)
PROFESSIONAL SERVICES ACTIVITY REPORT

Project No.: WUD 17-077

Task Authorization No: 1

Prime Consultant Address: Mock, Roos & Associates, Inc. , 5720 Corporate Way

City/State: West Palm Beach, FL Zip: 33407

Contact Person: Thomas A. Biggs, P.E. Phone#: 561-683-3113 x 216

Contract Name: (R2017-0818) Utility Distribution & Collection System Engineering Services

Contract Term: _____ Contract Amount \$ 243,900.00

Total Percentage performed by the Prime's Firm: (SBE) 48.03% SBE-M/WBE Firm: 75.67%

Service Type: Architectural _____ Engineering X Surveying X

Other (Specify) _____

Have Sub-Consultants completed work for this application?

Yes _____ No _____

Note: If yes, complete below: _____

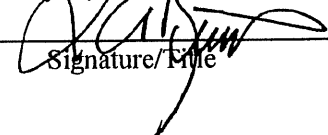
SUB-CONSULTANTS

1. Firms Name: Dennis J. Leavy & Associates, Inc.
Address/Tel: 460 Business Park Way, S-B, Royal Palm Beach, FL 33411/561-753-0650
Estimated Start Date: 02/18 Contract Amount: \$45,425.00
SCOPE OF WORK: Surveying
Percentage/Hrs Completed: 0.0% Amount Paid to Date: \$0.00

2. Firms Name: Tierra South Florida
Address/Tel: 2765 Vista Parkway, S-10, West Palm Beach, FL 33411/561-687-8570
Estimated Start Date: 02/18 Contract Amount: \$21,980.00
SCOPE OF WORK: Soils/Geotechnical Engineering
Percentage/Hrs Completed: 0.0% Amount Paid to Date: \$0.00

3. Firms Name: Wantman Group, Inc.
Address/Tel: 2035 Vista Parkway, West Palm Beach, FL 33411/561-687-2220
Estimated Start Date: 02/18 Contract Amount: \$59,350.00
SCOPE OF WORK: Structural/Utility Locates
Percentage/Hrs Completed: 0.0% Amount Paid to Date: \$0.00

I certify that the above is true to the best of my knowledge



Signature/Title

ATTACHMENT D

SCHEDULE 1

LIST OF PROPOSED SBE-M/WBE CONSULTANT/SUBCONSULTANTS

PROJECT NAME: Priority Aerial Canal Crossing Improvements Phase 2 **PROJECT NO.** 17-077

NAME OF PRIME CONSULTANT: Mock, Roos & Associates, Inc. **ADDRESS:** 5720 Corporate Way

CONTACT PERSON: Thomas A. Biggs, P.E. **PHONE NO.:** (561) 683-3113, x-216 **FAX NO. :** (561) 478-7248

DESCRIPTION OF SERVICES Replacement five existing aerial crossings and one new aerial crossing over the SFWMD L-20 Canal in South Bay, Florida within Zone 6, western Palm Beach County and replacement of two existing aerial crossings within Zone 4 and one existing aerial crossing within Zone 5.

**PLEASE LIST THE DOLLAR AMOUNT AND PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME ON THIS PROJECT.
PLEASE ALSO LIST THE DOLLAR AMOUNT AND PERCENTAGE OF WORK TO BE COMPLETED BY ALL SUB-CONSULTANTS ON THIS PROJECT. IDENTIFY ALL APPLICABLE CATEGORIES OF CONSULTANT/SUBCONSULTANTS**

Name, Address and Phone Number	(Check one or both Categories)		Consultant/Sub-consultant Dollar Amount and Percentage of Services				
	<u>M/WBE</u>	<u>SBE</u>					
	Minority Business	Small Business	Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. Mock, Roos & Associates, Inc. 5720 Corporate Way West Palm Beach, FL 33407 (561) 683-3113	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	\$117,060 -48.00%	_____
2. Dennis J. Leavy & Associates, Inc. 460 Business Park Way, Suite B Royal Palm Beach, FL 33411 (561) 753-0650	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	\$45,425 -18.62%	_____
3. Tierra South Florida 2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411 (561) 687-8539	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	_____	Asian-Pacific \$21,980 -9.01%
4.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
5.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
(Please use additional sheets if necessary)		Total	_____	_____	_____	\$162,485 -66.62%	\$21,980 -9.01%

Total SBE-M/WBE Participation -

- NOTE:**
- The percentages listed on this form must be supported by the sub-consultant included on Schedule 2 in order to be counted toward goal attainment.
 - Firms may be certified by Palm Beach County as an SBE and/or M/WBE

**OSBA SCHEDULE 2
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE CONSULTANT/SUBCONSULTANT**

This document must be completed by ALL SBE-M/WBE's and submitted with this CSA. Specify in detail, the particular consulting services to be performed and the dollar amount and/or percentage for each services. SBE credit will only be given for services which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: 17-077 PROJECT NAME: Priority Aerial Canal Crossing Improvements Phase 2

TO: Mock, Roos & Associates, Inc.
(Name of Prime Consultant)

The undersigned is certified by Palm Beach County as a - (check one or more, as applicable):

Small Business Enterprise Minority Business Enterprise _____
Black _____ Hispanic _____ Women _____ Caucasian Other (Please Specify) _____

Date of Palm Beach County Certification: 10/16/16 – 10/15/19

The undersigned is prepared to perform the following described consulting services in connection with the above project and will enter into a formal agreement for work with you, conditioned upon execution of a contract with Palm Beach County.

Additional Sheets May Be Used As Necessary

(Specify in detail the particular consulting services thereof to be performed)

Civil

Total SBE-M/WBE Participation \$117,060 -48.00%

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE sub-consultant, please list the name of that sub-consultant and the amount below.

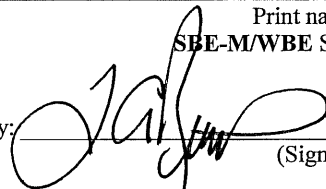
Price or Percentage _____
(Name of Sub-consultant)

The Prime Consultant affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the services with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE sub-consultant affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE sub-consultants except as noted above.

The undersigned sub-consultant understands that the provision of this form to the Prime Consultant does not prevent sub-consultant from providing quotations to other.

Mock, Roos & Associates, Inc.

Print name of
SBE-M/WBE Sub-consultant

By: 
(Signature)

Thomas A. Biggs, P/E., Executive Vice President
Print name/title of person executing on behalf
of SBE-M/WBE

Date: 10/16/17

**OSBA SCHEDULE 2
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE CONSULTANT/SUBCONSULTANT**

This document must be completed by ALL SBE-M/WBE's and submitted with this CSA. Specify in detail, the particular consulting services to be performed and the dollar amount and/or percentage for each services. SBE credit will only be given for services which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: 17-077 PROJECT NAME: Priority Aerial Canal Crossing Improvements Phase 2

TO: Mock, Roos & Associates, Inc.
(Name of Prime Consultant)

The undersigned is certified by Palm Beach County as a - (check one or more, as applicable):

Small Business Enterprise Minority Business Enterprise _____

Black _____ Hispanic _____ Women _____ Caucasian Other (Please Specify) _____

Date of Palm Beach County Certification: 02/25/16 - 02/24/19

The undersigned is prepared to perform the following described consulting services in connection with the above project and will enter into a formal agreement for work with you, conditioned upon execution of a contract with Palm Beach County.

Additional Sheets May Be Used As Necessary

(Specify in detail the particular consulting services thereof to be performed)

Surveying

Total SBE-M/WBE Participation \$45,425 -18.62%

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE sub-consultant, please list the name of that sub-consultant and the amount below.

Price or Percentage _____
(Name of Sub-consultant)

The Prime Consultant affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the services with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE sub-consultant affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE sub-consultants except as noted above.

The undersigned sub-consultant understands that the provision of this form to the Prime Consultant does not prevent sub-consultant from providing quotations to other.

Dennis J. Leavy & Associates, Inc.
Print name of
SBE-M/WBE Sub-consultant

By: David A. Bower
(Signature)

David A. Bower, Vice President
Print name/title of person executing on behalf
of SBE-M/WBE

Date: 10/16/17

**OSBA SCHEDULE 2
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE CONSULTANT/SUBCONSULTANT**

This document must be completed by ALL SBE-M/WBE's and submitted with this CSA. Specify in detail, the particular consulting services to be performed and the dollar amount and/or percentage for each services. SBE credit will only be given for services which the SBE-M/WBE's is certified to perform. Failure to properly complete Schedule 2 will result in your SBE participation not being counted.

PROJECT NUMBER: 17-077 PROJECT NAME: Priority Aerial Canal Crossing Improvements Phase 2

TO: Mock, Roos & Associates, Inc.
(Name of Prime Consultant)

The undersigned is certified by Palm Beach County as a - (check one or more, as applicable):

Small Business Enterprise Minority Business Enterprise

Black _____ Hispanic _____ Women _____ Caucasian _____ Other (Please Specify) X - (Asian-Pacific)

Date of Palm Beach County Certification: 11-30-15 - 11-30-17 - Statewide

The undersigned is prepared to perform the following described consulting services in connection with the above project and will enter into a formal agreement for work with you, conditioned upon execution of a contract with Palm Beach County.

Additional Sheets May Be Used As Necessary

(Specify in detail the particular consulting services thereof to be performed)

Geotechnical

Total SBE-M/WBE Participation \$21,980 -9.01%

If undersigned intends to sub-subcontract any portion of this job to a certified SBE-M/WBE or a non-SBE sub-consultant, please list the name of that sub-consultant and the amount below.

Price or Percentage _____
(Name of Sub-consultant)

The Prime Consultant affirms that it will monitor the SBE-M/WBE listed to ensure the SBE-M/WBE perform the services with their own work force. The undersigned SBE-M/WBE Prime or SBE-M/WBE sub-consultant affirms that it has the resources necessary to perform the work listed without subcontracting to a non-certified SBE or any other certified SBE sub-consultants except as noted above.

The undersigned sub-consultant understands that the provision of this form to the Prime Consultant does not prevent sub-consultant from providing quotations to other.

Tierra South Florida
Print name of
SBE-M/WBE Sub-consultant

By: 
(Signature)

Raj Krishnasamy, P.E., President
Print name/title of person executing on behalf
of SBE-M/WBE

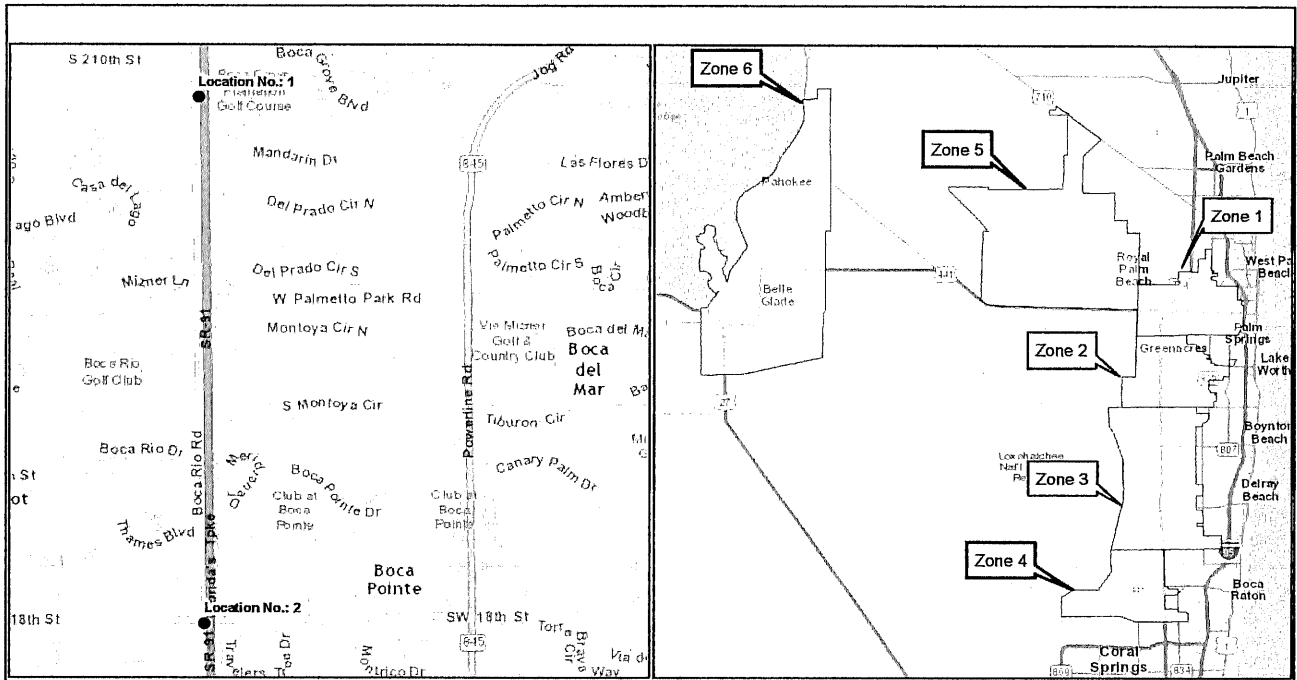
Date: 10/16/2017

ATTACHMENT - F

AUTHORIZATION STATUS REPORT

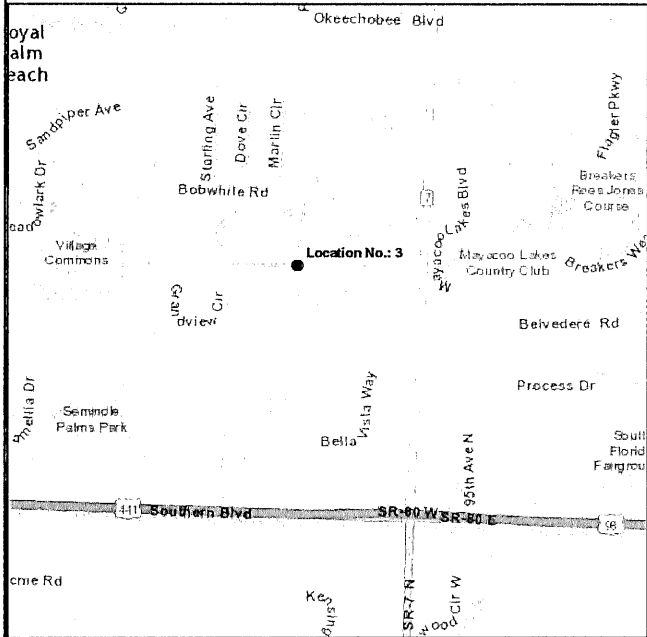
SUMMARY AND STATUS OF REQUESTS FOR AUTHORIZATIONS

	Total	SBE
Current Proposal		
Value of Authorization No. 1	\$243,900.00	
Value of SBE Letters of Intent	\$ 184,464.84	\$ 184,464.84
Actual Percentage	75.63%	75.63%
Signed/Approved Authorizations		
Total Value of Authorizations	\$0.00	
Total Value of SBE Signed Subcontracts	\$0.00	\$0.00
Actual Percentage	-	-
Signed/Approved Authorizations Plus Current Proposal		
Total Value of Authorizations	\$243,900.00	
Total Value of Subcontracts & Letters of Intent	\$184,464.84	\$184,464.84
Actual Percentage	75.63%	75.63%
GOAL	98%	

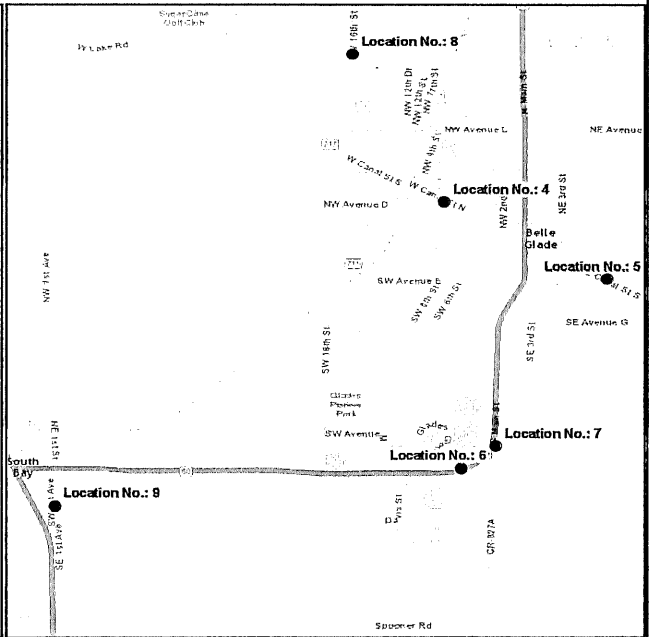


Zone 4 Aerial Canal Crossing Locations

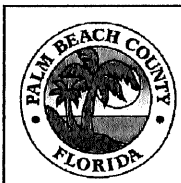
WUD Zone Map



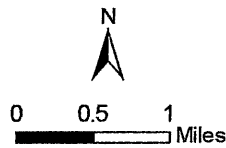
Zone 5 Aerial Canal Crossing Locations



Zone 6 Aerial Canal Crossing Locations



Aerial Canal Crossings Improvements Priority 2
Project Location Map
WUD Project No. 17-077
Attachment G



Legend
 ● Canal Crossings in Project

DESCRIPTIONS (Continued from Page 1)

Rights of Recovery Against Others.

Automobile Liability: Designated Insured, Waiver of Transfer of Rights of Recovery Against Others.

Workers Compensation: Waiver of Our Right to Recover from Others.

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER USI Insurance Services, LLC 1715 N. Westshore Blvd. Suite 700 Tampa, FL 33607	CONTACT NAME: PHONE (A/C, No, Ext): 813 321-7500	FAX (A/C, No):	
	E-MAIL ADDRESS: ADDRESS: INSURER(S) AFFORDING COVERAGE INSURER A : XL Specialty Insurance Company		NAIC # 37885
INSURED Mock, Roos & Associates, Inc. 5720 Corporate Way West Palm Beach, FL 33407-2066	INSURER B :		
	INSURER C :		
	INSURER D :		
	INSURER E :		
	INSURER F :		

COVERAGES CERTIFICATE NUMBER: REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? <input type="checkbox"/> Y/N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N/A				<input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional Liability			DPR9913520	04/26/2017	04/26/2018	\$3,000,000 per claim \$3,000,000 annl aggr.

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Professional Liability coverage is written on a claims-made basis.
For all projects with Palm Beach County
FULL PRIOR ACTS. Deductible is \$25,000 each claim. Should any of the above described policies be cancelled before the expiration date thereof, the issuing company will endeavor to mail 10 days written notice to the certificate holder named, but failure to mail such notice shall impose no obligation or liability of any kind upon the company, its agents or representatives.

CERTIFICATE HOLDER Palm Beach County c/Insurance Tracking Services, Inc. (ITS) PO box 20270 Long Beach, CA 90801	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE 