

**RESOLUTION NO. 09-1883**

**A RESOLUTION OF THE TOWN COMMISSION OF THE TOWN OF SURFSIDE, FLORIDA, APPROVING WORK AUTHORIZATION WITH CALVIN, GIORDANO & ASSOCIATES, INC. FOR A REPLACEMENT PROGRAM FOR THE WATER SUPPLY NETWORK, INCLUDING VALVES AND HYDRANTS; AUTHORIZING THE TOWN MANAGER AND TOWN ATTORNEY TO EXECUTE ALL REQUIRED DOCUMENTATION; PROVIDING FOR AN EFFECTIVE DATE.**

**WHEREAS**, the Town of Surfside's existing water supply system consists of a network of aging iron pipes that are several decades old. A replacement program for the water supply network, including valves and hydrants, is required.

**WHEREAS**, Town Engineers, Calvin, Giordano and Associates, Inc. (CGA) have developed a three-phase proposal for the design, civil engineering and professional surveying services work that precedes the actual construction with Phase I to consist of water main replacement design work for the southerly third of the Town extending from 88<sup>th</sup> Street to the north up to 90<sup>th</sup> Street and from Harding Avenue to Bay Drive.

**WHEREAS**, the total engineering and survey cost of Phase I of this project will not exceed \$83,875.70 with funding from the 2008-2009 budget Water and Sewer Fund (401-9900-536-6320).

**WHEREAS**, the Town Manager has recommended approval of the proposal.

**NOW, THEREFORE, BE IT RESOLVED BY THE TOWN COMMISSION OF THE TOWN OF SURFSIDE, FLORIDA,**

**Section 1. Recitals.** That the above and foregoing recitals are true and correct and are incorporated herein by reference.

**Section 2. Authorization.** The Town Commission hereby authorizes the Town Engineers, Calvin, Giordano and Associates, Inc. (CGA) to develop the design work that precedes the actual construction for Phase I which consists of water main replacement design work for the southerly third of the Town at a cost not to exceed \$83,875.70. The work described

with the Water Main Replacement Design is attached hereto and incorporated herein by reference as Attachment "A".

**Section 3. Implementation.** The Town Manager and the Town Attorney are hereby authorized to take any and all action necessary to implement this Resolution and Agreement in accordance with the terms, conditions and purposes of this Resolution and Agreement.

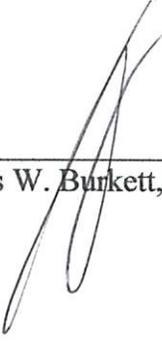
**Section 4. Effective Date.** This Resolution shall become effective immediately upon its adoption.

**PASSED AND ADOPTED** this 14<sup>th</sup> day of April, 2009.

Motion by Commissioner Elizabeth Calderon, second by Commissioner Steven Levine.

FINAL VOTE ON ADOPTION

Commissioner Elizabeth Calderon	yes
Commissioner Steven Levine	yes
Commissioner Howard Weinberg	yes
Vice Mayor Marc Imberman	yes
Mayor Charles Burkett	yes

  
\_\_\_\_\_  
Charles W. Burkett, Mayor

ATTEST:

  
\_\_\_\_\_  
Debra E. Eastman, MMC  
TOWN CLERK

**Approved as to form and legality for the use  
and benefit of the Town of Surfside only:**

  
\_\_\_\_\_  
Lynn M. Dannheisser  
Town Attorney



**Calvin, Giordano & Associates, Inc.**  
EXCEPTIONAL SOLUTIONS

Date: March 3, 2009

Mr. Fernando Rodriguez  
Public Works Director  
**TOWN OF SURFSIDE**  
9293 Harding Avenue  
Surfside, FL 33154

**RE: Work Authorization No. 23**  
**Town of Surfside - Water Main Replacement Design - Phase 1 of 3**  
**CGA Proposal No. 09-2365**

Dear Mr. Rodriguez,

Enclosed for your review and approval is Work Authorization No. 23 for Town of Surfside - Water Main Replacement Design - Phase 1 of 3. The scope of the project includes Water Main Replacement Design - Phase 1 of 3, and a written notice to proceed will be required.

The Scope of Services to be furnished under this Work Authorization includes Civil Engineering and Surveying as shown on the attached Work Authorization.

The Basis of Compensation is hourly based upon the established rates pursuant to the Professional Services Agreement between the Town and CGA, plus reimbursables, for a total not to exceed \$83,825.70.

Sincerely,

**CALVIN, GIORDANO & ASSOCIATES, INC.**

Dennis J. Giordano  
President

- Engineering
- Construction Engineering & Inspection
- Municipal Engineering
- Transportation Planning & Traffic Engineering
- Surveying & Mapping Planning
- Landscape Architecture & Environmental Services
- Construction Services
- Indoor Air Quality
- Data Technologies & Development
- Emergency Management Services
- Building Code Services
- Governmental Services

1800 Eller Drive, Suite 600  
Fort Lauderdale, FL 33316  
Phone: 954.921.7781  
Fax: 954.921.8807

154  
www.calvin-giordano.com

## **TOWN OF SURFSIDE**

### **Town of Surfside - Water Main Replacement Design - Phase 1 of 3**

#### **PROJECT DESCRIPTION**

##### **1. SCOPE OF SERVICES**

Calvin, Giordano & Associates, Inc. will perform the following services based on our understanding of the project requirements:

##### **I. Professional Engineering Services**

###### **A. Civil Engineering**

###### **1. Final Engineering Plans**

- For the purposes of upgrading the Town's potable water distribution system, the water main replacement plan will be broken into three approximately equal phases. Phase One shall include the water main replacement for the southerly third of the Town and shall extend from 88th Street to the south and include up to 90th Avenue. It shall extend from Harding Avenue to the east and Bay Drive to the west. Based upon our analysis we believe that an adequate potable water system currently exists within Collins Avenue and Harding Avenue; therefore, will not need to be replaced. However, water main connections to the east west roadways will require several taps within Harding Avenue, therefore the proposal includes sections of Harding Avenue.
- Prepare Engineering Plans for the replacement of approximately 11,000 linear of water main.
- Prepare Engineering Plans for review by the Town at the 50% and 100% levels.
- Address any comments generated by the Town during their review.
- Attend four - two hour meetings with Town staff to discuss scope, construction schedule and Engineering Plan specifics.
- Attend one - 2 hour community involvement meeting with Town residents.
- Prepare an engineer's estimate of probable costs.

**2. Engineering Permitting**

- Prepare applications for plan review with the Miami-Dade Water and Sewer Department.
- Prepare applications for plan review with the Miami-Dade Health Department.
- Prepare applications for plan review with the Miami-Dade Environmental Resource Management (DERM).
- Prepare submittal for plan review with the Town of Surfside Engineering and Utilities Department.
- Address comments generated by the review agencies. Two sets of comments are anticipated from the agencies.

**3. Construction Services**

- Construction Services are not included in this proposal.

**II. Professional Surveying Services**

A. (Phase I) The Survey department has researched this project and found the most efficient, cost effective way to obtain existing conditions on this project is by aerial photography. This project will be broken into Three (3) phases. Please see Attachment "A" for Phase "T" coverage of this proposal. The cost for the aerial photography will include all three phases in Phase I as this will be flown on a one time basis covering all Three (3) phases.

1. The following is a list of tasks to be performed by the survey department on Phase I:

- Control Surveys:
  - 7 control locations are needed to produce the planimetric mapping. Required are x, y and z (latitude, longitude and vertical positioning) on all points. There should be sufficient photo-identifiable features to select for all points.
- Base Mapping
  - We have coordinated with the Photogrammetrist and found that we could build the base map in Three (3) separate phases. Hours of research has been performed prior to submitting this proposal, it is

our goal to produce a product that is of good quality and cost effective. CGA tried to use the GIS base map from Dade County but found that actual position on the right-of-way lines varied as much as 5 feet in some areas which could be critical to the engineers design. There are approximately 71 blocks on this project which block corners will need to be located. This will be done by having our field crews locate block corners and building the base file by placing the right-of-way lines as occupied.

- Field Editing
- Once the aerial photography is complete it will be sent back to the CGA survey department. CGA will run plots of the line work performed by the Photogrammetrist and have our field crews ground proof the information on Phase "T".

## 2. AERIAL PHOTOGRAPHY

- Digital Mapping
- Using our first order analytical stereo plotting stations, SRM will provide planimetric digital mapping of the project corridors. Map scale will be 1"=50'. Visible planimetric features collected will include but not be limited to the following: Edge of pavement for all paved surfaces including curbs, parking lots, drives and shoulders, dirt roads and drives, trails, sidewalks, concrete pads, tanks, fences and walls, signs, utility poles, manholes, CATV and telephone boxes, storm drainage structures, valves, flagpoles, meters, fire hydrants, and visible indications of other utility systems, trees, bulkheads, bridges and other features including prominent paint stripping such as stop bars and cross walks. Visible gore cuts in the pavement will also be collected for areas where underground utilities may be located. A CAD Edit will be performed to verify and confirm the database contents and layering structure. To assure completeness, our Florida Registered Surveyor and Mapper will perform a final quality control review. Translation and delivery of the database will be on CD ROM in AutoCAD 2000 and delivered to Calvin, Giordano and Associates.
- Accuracy
- The aerial mapping will meet or exceed the requirements of the State of Florida Minimum Technical Standards set forth in Chapter 61G17-6. A final signed and sealed map report will be sent after the

Work Authorization No. 23

March 3, 2009

Calvin, Giordano & Associates, Inc. Proposal No. 09-2365

mapping has been completed.

**2. BASIS OF COMPENSATION:**

Hourly rates with an estimated fee of \$79,834.00 plus reimbursables at \$3,991.70 with a total not to exceed amount of \$83,825.70. Payments to be made monthly.

**3. SUBMITTED**

Submitted by: \_\_\_\_\_

Dennis J. Giordano

Date: \_\_\_\_\_

3-3-09

**4. APPROVAL**

Approved by: \_\_\_\_\_

Fernando Rodriguez, Public Works  
Director

Date: \_\_\_\_\_



**TOWN OF SURFSIDE  
 WORK AUTHORIZATION ESTIMATE DATE**

**WORK AUTHORIZATION NO.** 23  
**PROJECT NAME** Town of Surfside - Water Main Replacement  
 Design - Phase 1 of 3  
 CGA Proposal No. 09-2365  
**DESCRIPTION** Water Main Replacement Design - Phase 1 of 3,  
 and a written notice to proceed will be required

UNIT	RATE	HOURS/UNITS	COST
Associate Engineering VI	\$180.25	5	\$901.25
Director Engineering V	\$154.50	5	\$772.50
Engineer II	\$103.00	161	\$16,583.00
Project Manager IV	\$133.90	108	\$14,461.20
Sr. Registered Surveyor	\$133.90	20	\$2,678.00
Survey Coordinator	\$87.55	55	\$4,815.25
Survey Crew	\$128.75	105.5	\$13,583.13
Unit	\$26,040.00	1	\$26,040.00
			<b>\$79,834.33</b>

**SUB-CONSULTANTS COST**

<b>LABOR SUBTOTAL</b>	<b>\$79,834.33</b>
<b>REIMBURSABLE SUBTOTAL</b>	<b>\$3,991.72</b>
<b>TOTAL</b>	<b>\$83,826.05</b>

Reviewed by: \_\_\_\_\_  
 Fernando Rodriguez, Public Works  
 Director



**TOWN OF SURFSIDE  
PROFESSIONAL FEE SCHEDULE**

Principal 206.00  
Executive Assistant 72.10

**ENGINEERING**

Associate, Engineering 180.25  
Director, Engineering 154.50  
Project Manager 133.90  
Resident Inspector 123.60  
Project Engineer 123.60  
Engineer 103.00  
Jr. Engineer 87.55  
Senior CADD Technician 103.00  
CADD Technician 82.40  
Traffic Technician 77.25  
Permit Administrator 77.25  
Clerical 72.10

**DATA TECH DEVELOPMENT**

Associate, Data Tech Dev. 154.50  
GIS Coordinator 133.90  
GIS Specialist 113.30  
Multi-Media 3D Developer 92.70  
GIS Technician 82.40  
Sr. Applications Developer 164.80  
Applications Developer 123.60  
Network Administration 133.90  
System Support Specialist 113.30  
IT Support Specialist 82.40

**CONSTRUCTION**

Associate, Construction 154.50  
Construction Management Director 123.60  
Senior Inspector 92.70

**EMERGENCY MANAGEMENT**

Director 133.90  
Planner 92.70  
Jr. Planner 77.25

**PLANNING**

Associate, Planning 154.50  
Director of Planning 133.90  
Planning Administrator 123.60  
Assistant Director 113.30  
Planner 92.70  
Jr. Planner 77.25

**EXPERT WITNESS**

Principal/Associate 309.00  
Registered Engineer/Surveyor 257.50  
Project Engineer 206.00

**LANDSCAPE ARCHITECT**

Associate, Landscape 154.50  
Senior Landscape Architect 118.45  
Environmental Administrator 113.30  
Landscape Architect 103.00  
Environmental Specialist 92.70  
Landscape CADD Technician 82.40  
Environmental Assistant 72.10

**SURVEYING**

Associate, Surveying 164.80  
Hydrographic Survey Crew 334.75  
G.P.S. Survey Crew 144.20  
Survey Crew 128.75  
Senior Registered Surveyor 133.90  
Survey Coordinator 87.55  
CADD Technician 82.40  
Submeter G.P.S 66.95

**MICROBIAL/INDOOR AIR  
QUALITY SERVICES**

Sr. Environmental Scientist 103.00  
Environmental Scientist 87.55

Engineering  
Construction Engineering & Inspection  
Municipal Engineering  
Transportation Planning & Traffic Engineering  
Surveying & Mapping  
Planning  
Landscape Architecture & Environmental Services  
Construction Services  
Indoor Air Quality  
Data Technologies & Development  
Emergency Management Services  
Building Code Services  
Governmental Services

*In addition to the hourly rates listed above, charges will include direct out-of-pocket expenses such as reproduction, overnight mail, and other reimbursables billed at a multiplier of 1.25.*

1800 Eller Drive, Suite 600  
Fort Lauderdale, FL 33316  
Phone: 954.921.7781  
Fax: 954.921.8807

160  
www.calvin-giordano.com