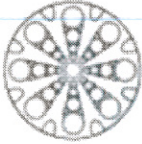


Since 1979



## DeRose Design Consultants, Incorporated

STRUCTURAL • CIVIL • LAND PLANNING • ENVIRONMENTAL • ELECTRICAL • MECHANICAL



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9620 N.E. 2nd Ave. • Suite 203  
Miami Shores, FL 33138  
305-249-3674 • Fax: 305-249-3410

Website: <http://www.derooseconsultants.com>

City Project No.: P10914

City Contact: Frank Snedaker, A.I.A.

City E.P.O. No.: \_\_\_\_\_

Fort Lauderdale, FL

Approved on the \_\_\_\_\_ day of \_\_\_\_\_, 2012

### CITY OF FORT LAUDERDALE FIRE STATION #54

Proposal for

Structural Engineering Services

#### TASK ORDER NO. 5

Scope of Consulting Services

between

**The City of Fort Lauderdale, Florida**

and

**DeRose Design Consultants, Inc.**

Contact: Lawrence DeRose, P.E.

Tel: 954-942-7703

Fax: 954-942-7933

## **TASK ORDER No. 5**

Dated this \_\_\_\_ day of \_\_\_\_\_, 2012

**CITY PROJECT NO. P10914**  
**FIRE STATION #54**  
**STRUCTURAL ENGINEERING SERVICES**

### **PROFESSIONAL SERVICES**

Describing a specific agreement between the City of Fort Lauderdale (CITY) and DeRose Design Consultants. Inc. (CONSULTANT) in accordance with the terms of the Master Agreement for Structural Engineering Consultant Services Continuing Contract dated January 19, 2011 and as amended on June 5, 2012.

### **GENERAL PROJECT DESCRIPTION**

CONSULTANT shall provide structural engineering services, engineering design and documentation services associated with the construction of a new two-story Fire Station #54 located at NE 33<sup>rd</sup> Avenue, Fort Lauderdale, Florida. This project is intended to be a full building replacement of the existing Fire Station at new nearby site as part of a Land Swap with local private developer. The existing Fire Station will be demolished after new fire station is fully operational.

### **SPECIFIC SCOPE OF BASIC SERVICES**

Basic services will be provided under the following three tasks:

- Task 1 – Preliminary Engineering and Design Development Plans
- Task 2 – Final Structural Engineering Design
- Task 3 – Services during Construction including Reinforced Masonry Inspections

#### **Task 1 Preliminary Engineering and Design Development Plans**

This task shall include producing 90% Construction Documents for the Facility based on previously designed and constructed FS#29 and FS#35 that involves the following:

- A. General  
Throughout the preliminary phase, CONSULTANT shall be coordinating with the architect, owner, and the consultants affected by the design decisions being made. There will be progress meetings at a frequency that is suitable to maintain the schedule of progress for the work and to keep the CITY informed.
- B. Structural Geometry  
CONSULTANT shall examine the structural geometry to establish suitability for the space planning proposed. The geometry will also involve the lateral load resisting system and the related

connecting parts. Shear wall or bracing locations and sizing will also be explored.

C. Structural Analysis

CONSULTANT shall proceed with verification of the beam, slab, column sizes and shear wall sizes. This will include the summation of gravity loads in contribution with wind loads for purposes of a closer, more accurate preliminary size of structural components. This will serve to begin confirmation of basic project spaces and layouts.

D. Final Proportioning of Slabs, Beams, Columns.

This final proportioning will result from the information available in the various studies presented above together with finalization of the location of mechanical rooms, chases, openings, and the affects of recesses on the structural design. Gravity loads in combination with wind will be used for final sizing and reinforcement of the structural components.

E. 90% Construction Drawings

The project specifications will be advanced to final form and the detailing or sectional drawings will be developed. During the work described, we will be completing the construction drawings to reflect the analysis, calculations, and coordination with design team members.

Deliverables to be submitted shall be electronic drawing files compatible with current City CAD standards as well as plot files in PDF format & two (2) sets of 24"x36" plan sheets. CONSULTANT shall attend up to three (3) meetings with Owner and revise drawings per agreed upon comments.

## **Task 2 Permit / Construction Documents**

Utilizing the 90% Construction Drawings developed in Task 1, the CONSULTANT shall proceed with Task 2.

During the final design CONSULTANT shall continue to work with the architect, owner, and team consultants to take the design process through to the concluding steps. CONSULTANT shall attend the progress meetings necessary to accomplish this goal and work with everyone involved that will rely upon structural engineering coordination. This will include the arrangements for mechanical loads, utility chases, and openings in the slabs, as well as all the related equipment support loads and locations.

A. Final Construction Drawings

The project specifications will be advanced to final form and the detailing or sectional drawings will be developed. During the work described, CONSULTANT shall be completing the construction drawings to reflect the analysis, calculations, and coordination with design team members. All structural floor plans will be completed. At the end of this phase the drawings will be ready to be submitted to the Building Department.

B. Structural Analysis and Design Calculations

All calculations will be provided in a format presentable to the Building Department with all the appropriate cross-referencing necessary for comparison of analysis results to the design drawings.

This will also facilitate any Building Department inquiries related to the final proportioning of the structure.

Upon final Building Department approval, the CONSULTANT shall produce Final Construction Plans and Documents for the Facility. Deliverables to be submitted shall be electronic drawing files compatible with current City CAD standards as well as plot files in PDF format & two (2) sets of 24"x36" plan. CONSULTANT shall prepare final construction document specifications for the Facility in a CSI format (Masterformat 2004).

### **Task 3 Structural Services during Construction**

Work under this part of the scope of service is to begin at the start of foundation installation. Pile construction installation shall be conducted by a geotechnical engineer with our overview. CONSULTANT shall inspect pile caps and grade beams. Thereafter CONSULTANT shall be involved in the inspection of the erection of the superstructure and structural components of the building, including exterior wall systems. The structure will be reinforced masonry walls with strategically placed beam and column work and shear walls for lateral stability. During construction CONSULTANT shall review design drawings and previously reviewed shop drawings in preparation for on-site observations of the construction of the structure. As a part of CONSULTANT inspection work, CONSULTANT shall also coordinate communication between the Engineer/Architect of Record and the Contractor regarding design issues or construction drawing clarifications. CONSULTANT shall also provide the liaison with the Building Department associated with this portion of the construction. During construction it is expected that there will be routing meetings, which we will attend to participate in the agenda items pertaining to the structural work.

During CONSULTANT work CONSULTANT shall provide field reports for each inspection, which will be circulated, to all the affected parties. CONSULTANT shall also assist when issues of a structural nature are involving architectural design issues. Upon completion of the above referenced building, CONSULTANT shall then provide a Certificate of Compliance for official record on the superstructure construction.

### **Reinforced Masonry Inspections**

The Inspector will be present for those inspections required by the CITY. All inspections will be scheduled by the City's Construction Administrator and will provide at least 24 hours notice to the Inspector. We anticipate no more than 8 trips over the construction period. The Inspector will prepare a report of each field visit. The Inspector will inspect work, and re-inspect falling work, on a per visit basis as requested by the CITY's Construction Administrator.

### **ADDITIONAL SERVICES**

If authorized in writing by the City as an amendment to this Task Order, the Consultant shall furnish, or obtain from others, Additional Services as indicated in Article 8 of the Master Agreement.

### **TASK ASSUMPTIONS**

- a. Plans will be prepared in conformance with the current City CAD standards. The Project will comply with the current April 2008 Cad Standard, Addendum 3 dated February 2009.
- b. The CITY will identify the individuals who will be the points of contact for the project.
- c. The CITY will provide architectural and landscape architectural, demolition, civil, mechanical, electrical, plumbing and geotechnical plans and documents.
- d. Surveying services will be provided under a previous task order by others.
- e. Underground utilities shall be provided to the site/building under a previous project by others.
- f. Pile inspections and installation monitoring shall be provided by a geotechnical engineer, not included in our scope.

**PERFORMANCE SCHEDULE**

1. 90% Construction Development drawings will be delivered to the CITY in (4) weeks after receiving approval of the design memorandum and receipt of the geotechnical recommendations for foundation on piles.
2. Permit / Construction Documents shall be completed within (4) weeks following 90% CD submittal.
3. Final Construction Documents shall be completed within (10) working days of Building Department approval.
4. Construction services will be delivered during the period from the time of commencement of construction to substantial completion. Punch list items are expected to be completed within thirty (30) days after substantial completion.

All documents prepared by CONSULTANT in the performance of this agreement shall become property of the CITY. The CITY can use the documents at any time in the future for information.

**METHOD OF COMPENSATION**

The services performed under this Task Order will be accomplished using the Not To Exceed method of compensation.

**TERMS OF COMPENSATION**

Services to be provided for the following Not To Exceed amounts as itemized on the attached Table A.

<b><u>Task</u></b>	<b><u>Description</u></b>	<b><u>Consultant</u></b>	<b><u>Total</u></b>
1	90% Construction Documents	<b>\$19,012.00</b>	<b>\$19,012.00</b>
2	Permit / Construction Documents	<b>\$10,419.00</b>	<b>\$10,419.00</b>
3	Services during Construction	<b>\$12,060.00</b>	<b>\$12,060.00</b>
<b>Sub-Total:</b>		<b>\$41,492.00</b>	<b>\$41,492.00</b>

The CITY will be billed monthly on a time and material basis. The CITY Project Manager shall provide a standard invoicing format to the CONSULTANT.

**CLOSURE**

IN WITNESS OF THE FOREGOING, the parties have set their hands and seal the day and year first written above.

WITNESSES:

**CITY OF FORT LAUDERDALE**

\_\_\_\_\_  
(Witness print/type name)

\_\_\_\_\_

\_\_\_\_\_  
(Witness print/type name)

(CORPORATE SEAL)

By \_\_\_\_\_  
Lee R. Feldman, City Manager

ATTEST:

\_\_\_\_\_  
Jonda K. Joseph, City Clerk

Approved as to form:

\_\_\_\_\_  
Carrie L. Sarver, City Attorney

WITNESSES:

[Signature]

MILSON KRATOK  
Print Name

[Signature]

MATHEW SOLSKI  
Print Name

DEROSE DESIGN CONSULTANTS, Inc.

By: [Signature]

Name: Lawrence DeRose

Title: V.P.

(CORPORATE SEAL)

ATTEST:

By: [Signature]

Name: Ann Marie DeRue

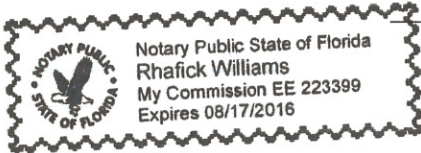
Title: President

STATE OF FLORIDA:  
COUNTY OF BROWARD:

ANN-MARIE DEROSE and LAURENCE DEROSE as PRESIDENT / SECY. and VICE-PRESIDENT respectively, of DeRose Design Consultants, Inc, acknowledged the foregoing instrument before me this 31<sup>st</sup> day of October, 2012, on behalf of the corporation. They are personally known to me and did not take an oath.

(SEAL)

[Signature]



Notary Public, State of Florida  
(Signature of Notary taking Acknowledgement)

Rhafick Williams

Name of Notary Typed, Printed or Stamped

My Commission Expires 8/17/16 Commission No. EE 223399

Exhibit A

CITY OF FORT LAUDERDALE  
STRUCTURAL DESIGN SERVICES

FS#54

TABLE A

City of Fort Lauderdale #P10914

		Field Engineer	Professional Staffing CADD Tech	Project Engineer	Project Manager
Hourly Rate		\$65.00	\$65.00	\$118.84	\$140.07
Consultant		0	100	77	24
	Subtotals	\$0	\$6,500	\$9,151	\$3,362
<b>Task 1 90% Construction Documents</b>		<b>\$19,012</b>			
Consultant		0	60	36	16
	Subtotals	\$0	\$3,900	\$4,278	\$2,241
<b>Task 2 Permit / Construction Documents</b>		<b>\$10,419</b>			
Consultant		68		36	24
	Subtotals	\$4,420	\$0	\$4,278	\$3,362
<b>Task 3 Services During Construction</b>		<b>\$12,060</b>			
<b>Total Budget</b>		<b>\$41,492</b>			