



AGENDA ITEM MEMORADUM

Item No. 118

Town Manager's Office

Connie Hoffmann

Department

Town Manager

COMMISSION MEETING DATE (*) - 7:00 PM	Deadline to Town Clerk
<input type="checkbox"/> Oct 25, 2011	

*Subject to Change

- | | | | |
|---------------------------------------|---|---|---------------------------------------|
| <input type="checkbox"/> Presentation | <input type="checkbox"/> Reports | <input type="checkbox"/> Consent | <input type="checkbox"/> Ordinance |
| <input type="checkbox"/> Resolution | <input type="checkbox"/> Quasi-Judicial | <input checked="" type="checkbox"/> Old Business | <input type="checkbox"/> New Business |

**FY2011 DESIGNATED HIGH PRIORITY ITEM - PRIORITY TOPIC
EAST COMMERCIAL BOULEVARD STREETScape PROJECT**

SUBJECT TITLE: WORK AUTHORIZATION TO JAIME CORREA AND ASSOCIATES FOR THE DESIGN OF THE EAST COMMERCIAL BOULEVARD STREETScape & DRAINAGE PROJECT

EXPLANATION: Staff solicited proposals for the design of the East Commercial Boulevard streetscape and drainage project from two urban design firms that have continuing contracts with the Town - EDSA and Jaime Correa and Associates. Both are South Florida-based firms with international reputations for excellence and are capable of creating a superb design for this most important project. After reviewing their proposals, meeting their respective design teams to discuss their observations and ideas, and evaluating the makeup of their teams, staff recommends that the Work Authorization to design this project be awarded to Jaime Correa and Associates in the sum of \$186,805.

Both teams exhibited creativity in on-site discussions about possible design features of the project. They also provided similar time schedules for designing the project. Both firms submitted reasonable cost proposals. EDSA's fees were lower than Correa's (\$173,543 vs \$186,805), but that is because the Correa team assigned more hours of senior personnel to the project than did EDSA who relied heavily on less-experienced personnel to do the bulk of the design work. (EDSA stressed verbally that they provide senior personnel oversight and guidance beyond what is reflected in their cost proposal.)

Construction costs of the project are projected to be \$1.8 million, possibly higher if the Town selects high-end lighting, paving and landscape features so the design fees are less than the 13-15% of construction costs we are told by other cities are more typical for projects of this scope. The fact that they were constrained by the CCNA statutory provisions that restrict design fees that can be granted to a single firm under a continuing contract on any given project to a maximum of \$200,000 worked in the Town's favor.

With creativity and project schedules being similar, the following factors caused staff to recommend that the design work for this particular project be awarded to Jaime Correa and Associates:

- They are assigning primarily senior personnel to do the design. In addition to Mr. Correa who is the firm's owner and principal and the head of the University of Miami's Urban Design program and Professors Steven Fett who participated in the University's LBTS Community Design Workshop in May will be heavily involved in the design.
- The landscape architects will be Falcon Bueno, a Miami firm Correa & Associates has successfully worked with in the past, and the engineers will be Chen Moore, the Town's current engineers. Changes to those subcontractors can be made only with the approval of the Town Manager.



- The team already has an excellent understanding of and sensitivity to our community. They met with most of the stakeholders in the East Commercial project area during the May workshop. That familiarity of the issues and players should enable them get into the design details more quickly than the EDSA team can. In their response to the Work Authorization, they suggested modifications that would speed the project up, based entirely on the fact that they already went through most of the normal conceptual design phases typical of such a project.
- The Correa team exhibited an excitement and passion about the project area in our meeting. They plan and design traditional towns and town centers, so they understand how critical the design of these three blocks is to the Townspeople and our future. They clearly recognize how unique the site is and how important it is to the character of the community.

The City of Delray Beach gave Jaime Correa a sterling reference, noting how well he works with the stakeholders on a project, the quality of the work he does, and how easy he is to work with. His associate, Steven Fett, has worked extensively with the Gold Coast Regional Planning Council developing community designs in planning charrettes throughout Florida. Chuck Bohl brings to the project the economic perspective of how urban design affect a community's businesses and real estate values.

The Work Authorization detailing the scope of work is attached (**Exhibit 1**). Funding for the design of the project is included in this year's budget.

RECOMMENDATION: We recommend the Commission authorized approval of the attached Work Authorization (Exhibit 1) with Jaime Correa and Associates in the amount of \$186,805 for the design of the East Commercial Streetscape and Drainage Project.

EXHIBIT: 1. Work Authorization for Streetscape and Drainage Services for the East Commercial Boulevard Project.

SOURCE OF FUNDS: CIP Account 300-576.128-500.630 Design (\$600,000 Budget)

Reviewed by Town Attorney

Yes No

Town Manager Initials

Work Authorization Form is approved by the Town Attorney.

JAIIME CORREA AND ASSOCIATES

Town Planning - Regulations - Architectural Design

5735 SW 48th Street, Miami, FL 33155

T.305.740.8226 F.305.740.8979

www.correa-associates.com

Town Manager Connie Hoffman
Assistant Town Manager Bud Bentley,
Town of Lauderdale-By-The-Sea
4501 Ocean Drive
Lauderdale-By-The-Sea, FL 33308

10-21-11

**Subject: East Commercial Boulevard Streetscape and Drainage Improvements
Urban Design, Landscape Architecture, and Civil Engineering Services**

Dear Ms. Hoffman and Mr. Bentley,

We are pleased to present to you the attached agreement for professional services and scope of work to provide utility coordination/base map, roadway, storm water, engineering, government permitting and bidding assistance services for the development of the design of streetscape and storm water improvements to the downtown core and adjacent areas east of Bougainville Drive in the Town of Lauderdale by the Sea.

Our attached agreement takes into account the fact that the consensus building process, fundamental to the community acceptance of the project, has already begun with the efforts of the University of Miami, School of Architecture urban design and real estate analysis charrette. We see this fact as an opportunity to reduce the scope of work, primarily in Task 2: Conceptual Design. The attached agreement makes changes to the scope, and thereby reduces time and expense in professional fees.

Our team is comprised of Jaime Correa, Principal of Correa and Associates, and Director of the Master in Urban Design program at the University of Miami, School of Architecture; Steven Fett, Architect and Adjunct Faculty at the University of Miami, School of Architecture. Falcon Bueno, Landscape Architects with 37 years of design practice in South Florida, and Chen Moore and Associates, Civil Engineers who have first-hand experience working with the Town of Lauderdale-By-The-Sea. We are including supplemental information for these two consultants in this package. We feel that this team is very talented, with a proven ability to create meaningful, lasting, public spaces. We all have a great deal of respect for the leadership in the Town, and hope very much to begin a working relationship with you. We see the enormous potential of the downtown, and are excited about the possibility of helping to transform the space into a memorable destination.

Should you have any questions, please contact me at my office (305.740.8226) or on my cell phone (786.412.3947) or send me an electronic message @ jcorrea@correa-associates.com

Respectfully Submitted,
Jaime Correa

**TOWN OF LAUDERDALE BY-THE-SEA
WORK AUTHORIZATION FOR PROFESSIONAL SERVICES**

Consultant: Jaime Correa and Associates

Address:
5735 SW 48th Street, Miami, FL, 33155

Contract No. Agreement Description: Continuing Professional Services Contract	Work Authorization No.: Effective Date _____
--	---

P.O. # For Work Authorization:	Budget: \$ _____
---------------------------------------	-------------------------

Brief Task Description: Design and construction drawings for Streetscape & Stormwater Drainage Improvements to Commercial Boulevard and adjacent areas east of State Road A1A in the Town of Lauderdale-by- the-Sea

In accordance with the above referenced agreement, you are authorized to perform the tasks detailed in attached Exhibit A (Scope of Services). All required services will be completed on or before: See Exhibit "C"

The total amount or the limiting amount of the compensation will be: \$186,805 unless additional services are authorized by the Town in writing.

Compensation elements are as follows:

	Method of Compensation (Lump Sum, Hourly NTE)	Amount (\$)	Project Code
Task # 1	Lump Sum	\$6,190	
Task # 2	Lump Sum	\$33,015	
Task # 3	Lump Sum	\$50,625	
Task # 4	Lump Sum	\$10,030	
Task # 5	Lump Sum	\$4,750	
Task # 6	Lump Sum	\$65,380	
Task # 7	Lump Sum	\$16,815	
Total		\$186,805	

This Work Authorization is subject to the same terms and conditions of the Continuing Professional Services Contract dated _____.

Please acknowledge receipt of, and agreement with, this Work Authorization by signing and dating and returning three (3) original signed copies to the Town Manager. The Town will send you one fully executed copy.

Town of Lauderdale by-the-Sea Approval:

Constance Hoffmann, Town Manager _____
(Signature) (Date)

June White, Town Clerk _____
(Signature) (Date)

If over \$15,000, date this work was approved by the Town Commission: _____

Contractor Acceptance:

Contractor Name: _____
(Signature) (Date)

Title: _____

Exhibit A

Name of Project

DESIGN AND CONSTRUCTION DOCUMENT PREPARATION FOR STREETScape & STORMWATER DRAINAGE IMPROVEMENTS TO THE DOWNTOWN CORE AND ADJACENT AREAS EAST OF BOUGAINVILLE DRIVE IN THE TOWN OF LAUDERDALE-BY-THE-SEA

Scope of Services

STREETSCAPE DESIGN

The area covered by this scope of services envelops the heart of the historic and entertainment center of the Town of Lauderdale-by-the-Sea. The goals of this project are to create an urban gathering place that provides beautiful vistas of the sea, provides increased shade from the intense sun and heat, enhances the pedestrian environment and safety while maintaining vehicular access to the businesses located on the street and improving vehicular circulation and parking, provides for expansion of outdoor dining areas, and pays tribute to the Town's history. The Town seeks creative aesthetic enhancements and improvements that capture the unique qualities and characteristics of the Town and that create a sense of place distinctive from other beachside communities.

The area is already a lively Town gathering place, the site of many special and musical events, and has heavy pedestrian traffic, but there are constant conflicts between the pedestrians and vehicles. Sidewalk cafes exist on the north side of the street but are quite narrow.

There have been a number of urban design studies and community discussions about this area. The starting point for the streetscape design project shall be the design concept created by the University of Miami School of Architecture in May 2011. The University's design concepts can be accessed at the bottom left-hand corner of the Town's website (lbts-fl.gov); see pages 26-33 of the University's final report. The Town does anticipate that University of Miami plan for the Commercial Boulevard block east of El Mar Drive will have to be modified to provide two way street access to the Fishing Pier and Aruba Beach Café parking lots.

The specific boundaries for the streetscape design are East Commercial Boulevard from Bougainville Drive to the Town's beach pavilion, El Mar Drive and State Road A1A between the northern boundary of the alleyway that parallels Commercial Boulevard on the north and to the southern boundary of the alleyway that parallels Commercial Boulevard on the south, and the alleyways themselves.

The construction cost of the project CANNOT exceed \$2 million.

The scope of services includes:

TASK 1: BASE MAP PREPARATION

The Town will provide the following information to the design consultant team:

1. Signed and sealed survey of the project area including existing tree location and all permanent fixtures.
2. Maps that show the locations of existing storm water drainage systems.
3. Maps that show locations of existing sewer mains and lateral stubs in the public rights of way systems in the area.
4. FP&L component list for street lighting in the area.
5. Soil Boring and additional surveying, if deemed necessary by the town, will be provided by the town.

Consultant shall perform necessary field investigations/reconnaissance and review of available records and add any information needed to prepare base maps for use in design.

Deliverables: Provide two hardcopies of the base map in 24 inch by 36 inch format and one electronic copy in pdf format.

TASK 2: CONCEPTUAL DESIGN

- A. Become familiar with the University of Miami design concepts for the project.
- B. Hold two one focus group meetings for the purpose of obtaining input on the modified University of Miami design concept from property owners, shop and restaurant operators located along the three block area of Commercial Boulevard covered by the block area.
- C. Meet with representatives of the Fishing Pier and Aruba Beach café individually (JC & A only) for their input (2 meetings in total).
- D. Meet Talk with the Town Manager to present the results of the focus group meeting, its preliminary design concepts, and to discuss resolution of conflicting input.
- E. Prepare a refined conceptual design package, consisting of one (1) plan two (2) alternatives with supporting illustrations. The refined conceptual design package should consist of the following:
 - a. Alternative public parking solutions.
 - b. Recommended pedestrian improvements within the ROW throughout the entire project area that reduces the feeling that vehicular traffic is dominant over pedestrians.
 - c. A conceptual sub-tropical landscape design that provides shade to pedestrians and diners and defines the public spaces, but does not block vistas of the sea.
 - d. A feasible traffic plan that limits vehicular traffic in the easternmost block of Commercial Boulevard to traffic accessing Aruba Beach Café, the Pier, and on-street parking (if maintained); provides for a functional drop off place to unload passengers going to the beach; identifies how a valet operation supporting multiple businesses could be located and function; addresses the need for large supply trucks to deliver provisions to the restaurants in the mornings; and provides for smooth traffic flow through the area – if necessary. As part of the traffic plan, the Traffic Consultant shall work with the streetscape designers to identify how the area can be closed to traffic for special events, and build into the design features that facilitate the temporary street closures and the special events themselves.
- F. Hold one focus meeting with the Commercial Boulevard stakeholders to garner their reaction to the conceptual design.
- G. Present the conceptual design at a Town Commission meeting and facilitate obtaining direction from the Commission on the alternatives presented and on addressing any significant stakeholder disagreement with the design concept.

In addition to the meetings detailed above, the Consultant shall hold monthly meetings with Town Manager and other staff members to review progress, design issues, etc.

Deliverables: A conceptual design package (two printed copies) of streetscape improvements that is consistent with Lauderdale by the Sea's casual, beachside village character, consisting of:

- Supporting typical sections, sketches, illustrations and or image boards illustrating proposed streetscape alternatives mounted on foam core board or other suitable mounting material for presentations.
- No fewer than 4 (four) boards, A powerpoint presentation, and an appropriate number of formatted hard copies, showing typical sections, sketches, illustrations, images, are required, however, a sufficient number of and other materials must be prepared and submitted that shows various streetscape elements to a sufficient level of detail for observers to get a true sense of how the streetscape will appear.

TASK 3: SCHEMATIC DESIGN

Using feedback from the stakeholder meeting and the Town Commission meeting, develop a Schematic Design Package including one recommended alternative related to parking.

- A. Recommend multiple (at least two) paving and hardscape materials options of varying life cycle costs for the Town to select from including textures, colors, patterns and various aggregate or decorative materials. Be advised it is the Town's preference to avoid pavers set in sand due to maintenance concerns. Provide samples and/or advise of installed location(s) of the recommended materials/surface treatment in Broward, Palm Beach or Dade Counties. Provide life cycle costs and the benefits of each option.
- B. Recommend at least three lighting options of varying life cycle costs for the Town to select from with including fixtures, photometrics, location and design, and provide specifications for the styles recommended being cognizant of environmental issues (sea turtles, maintenance in a heavy salt environment, etc.). Provide life cycle costs (in 2011 dollars) and the benefits of each option.
- C. Recommend at least two site furnishings options including but not limited to benches, trash receptacles, bike racks, etc that are consistent with the character the Town is seeking and can hold up under the environmental conditions.
- D. Provide detailed schematics for the location, size and type of landscape materials. Minimize the use of rocks, plastics and sand to reduce heat build-up.
- E. Prepare a preliminary construction cost estimate.
- F. Coordinate as appropriate the roadway realignment or reconfiguration, proposed lighting, streetscape and stormwater drainage with all applicable local, County, State and Federal jurisdictional agencies and Departments including but not limited to Broward County Traffic Engineering Division, Broward County Highways Construction and Engineering Division, Broward County Department of Environmental Protection, Florida Department of Environmental Protection and, the Florida Department of Transportation.
- G. Prepare a list of required or expected permits.
- H. Hold a focus group meeting with the Commercial Boulevard stakeholders to review the schematic design.
- I. Meet with the Town Manager and other staff members at least monthly to review progress, design issues, etc.
- J. Meet with the Town Manager and the five Town Commissioners individually to review the proposed schematic design (6 meetings). (JC & A Only)
- K. Present the schematic design at a Town Commission meeting and facilitate obtaining direction from the Commission on the plan elements.

Deliverables:

Provide a Schematic Design Package (two [2] color sets) as described earlier under the conceptual design phase.

- One set shall be mounted on foam core board or other suitable material for presentations.
- Consultant shall prepare the Schematic Design package with the intent to solicit detailed review and comment the elected officials, Town Manager, and general public.
- Provide one hardcopy of the construction cost estimate and list of required or expected permits.

TASK 4: STORMWATER DESIGN

The Town recently completed drainage improvements in the easternmost block of Commercial Boulevard and wishes to make additional drainage improvements in the rest of the project site that interconnect the existing drainage systems in this area and augment those systems with some additional exfiltration trench and roadway grading. The proposed improvements are limited to the following:

- North Alley (East of El Mar Drive) - Complete re-grading of roadway area and installation of valley gutter to direct stormwater runoff toward proposed catch basin on El Mar Drive
- North Alley (West of El Mar Drive) - Complete re-grading of roadway area and installation of valley gutter to direct stormwater runoff toward proposed catch basin on El Mar Drive

South Alley (West of El Mar Drive) - Complete re-grading of roadway area and installation of additional catch basin and exfiltration trench which would interconnect with existing catch basin on El Mar Drive
El Mar Drive (North of Commercial Boulevard) - Installation of exfiltration along east side of El Mar Drive which would interconnect with new drainage to south on Commercial Boulevard and existing drainage to north near Minto Property.

- A. Perform design and analysis related to stormwater drainage improvements. Work includes design, details and technical specifications and shall be incorporated into the final construction drawings listed in Task 6.
- B. Prepare required permit applications.
- C. Prepare final certification of the improvements as required to place the system in service including preparation of as-builts, field review, and all other appropriate subtasks required.

Meetings: Meet with Town staff as needed to review design issues. No public meetings are expected.

Deliverables: Stormwater design shall be incorporated into final design.

TASK 5: AERIAL UTILITY RECONFIGURATION

There are existing aerial utilities (Florida Power and Light, AT&T, and Comcast) within the project area that may limit or preclude desired or recommended improvements to the corridor that enhance the pedestrian environment or otherwise limit the area's use for various public or special events. Specifically, the aerial utilities run in a north-south direction along the east side of El Mar Drive. The Town does not anticipate burying aerial utilities in the alleyways due to the cost and lack of space to place transformers, however, is open to ideas on how the visual pollution of the multiple aerial lines that run along and across the alleyways can be reduced by less costly solutions.

- A. Develop alternatives to reconfigure, relocate, place underground, or otherwise minimize the adverse visual impacts or limiting physical attributes to proposed improvements on the Commercial Boulevard and EL Mar sections of this project.
- B. Develop suggestions and cost estimates to minimize the visual pollution caused by aerial lines in the two alleyways.
- C. Coordinate with affected utility providers to evaluate feasibility of options.
- D. Develop an order of magnitude cost for proposed improvements.

Meetings: Meet with utility providers and Town staff as needed. No public meetings are expected.

Deliverables: One hardcopy narrative, with sufficient sketches or descriptions to illustrate the work, along with one order of magnitude cost estimate to be included in the schematic design of the Streetscape referenced in Task #3.

TASK 6: FINAL DESIGN (50%, 90% [for permit] and Bid Drawings)

- A. Prepare full design/construction drawings details and technical specifications for Streetscape Improvements needed to construct the project. At a minimum, the following elements are included:
 - 1. Plazas and patterned sidewalks/pedestrian facilities
 - 2. Steps, ramps and retaining walls
 - 3. Site furnishings
 - 4. Exterior lighting, including street lighting, pedestrian lighting and landscape lighting
 - 5. Specialty features
 - 6. Hardscape/Paving Plans
 - 7. Curbs and paving
 - 8. Stormwater plans

- 9. Erosion Control Plan
- 9. Planting Plans - Quantity, size, and description of the following:
 - a. Trees (including relocation of any existing trees)
 - b. Shrubs and groundcovers
 - c. Soil mixes
 - d. Planting details and specifications
- 10. Irrigation Plans (Town to supply source information for irrigation source, i.e., well or Town water source).
- 11. Demolition Plan
- 12. Phasing Plans
- B. Include all Construction Details required to construct the project such as:
 - 1. Decorative walls
 - 2. Special pavements or hardscapes
 - 3. Various lighting treatments
 - 4. Landscaped edges and buffers
 - 5. Stairs, ramps, walls and walkways
 - 6. Curbs and hardscape edges
 - 7. Stormwater drainage improvements
 - 8. Erosion Control
- C. Prepare technical specifications.
- D. Coordinate the roadway realignment or reconfiguration, proposed lighting, and stormwater drainage with all applicable local, County, State and Federal jurisdictional agencies and Departments including but not limited to Broward County Traffic Division, Broward County Highways and Engineering Division, Broward County Department of Environmental Protection, Florida Department of Environmental Protection and, the Florida Department of Transportation as appropriate
- E. Prepare all permit applications required for approval of the proposed improvements or portions thereof by all appropriate jurisdictional agencies.
- F. Prepare final estimate of quantities and construction cost estimate.
- G. Prepare a narrative detailing recommended minimum contractor qualifications.

Public Outreach and Meetings: Meet no less frequently than monthly with Town Manager and other staff members to review progress, design issues, etc.

Deliverables: Deliverables for the final design/construction drawings, specifications and cost estimate (unbound) are as follows:

- 1. Construction Drawings – one hardcopy full size, one hardcopy half size, and one electronic copy (.pdf format)
- 2. Technical Specifications – one hardcopy and one electronic copy (.pdf format)
- 3. Construction Cost Estimate - one hardcopy

TASK 7: BID PHASE SERVICES and GOVERNMENT PERMITTING

- A. Attend one pre-bid conference
- B. Prepare responses to questions from possible contractors and issues.
- C. Prepare addenda as appropriate.
- D. Review bids received for the project and make written recommendation for contract award.
- E. Government Permitting in this phase will include: EPGMD, FDEP (NPDES), BCHD, BCTED, LBTS, SFWMD, FDOT

COMPOSITION OF PROJECT TEAM

The lead Consultant shall compose a project team consisting of urban design, landscape architecture, and civil engineering professionals. The licenses and qualifications of the members of the team shall be consistent with the requirements for their respective professions as required by the Town's RFQ # 11-05-02 for Continuing Contracts for Professional Services.

The lead consultant will be required to commit that the personnel and/or principals named in the proposal for both the lead consultant and the sub-consultants shall remain assigned to the project throughout the period of the contract unless provided for otherwise in a negotiated contract. No diversion or substitution of personnel or principals will be allowed without submission of a written request with the qualifications and experience of the proposed replacement. The approval of the Town Manager will be required for any such diversion or substitution.

PLEASE NOTE: The Town will enter into a separate contract with a Traffic Engineering firm to perform the transportation planning and traffic engineering (including parking) elements of this scope of work in conjunction with the lead consultant's project team. The lead consultant cannot direct the Traffic Engineer to do additional work that extends beyond the confines of the scope of services defined in this work authorization without the Town's express written authorization.

COMPENSATION

Compensation for this project shall be quoted on a total, not-to-exceed sum and shall include the cost of all services, deliverables and meetings listed above. The total cost shall also be broken down into segments for each of the previously described seven (7) tasks.

Total, not to exceed cost of services: \$ 186,805

Cost broken down by Tasks:

TASK 1: BASE MAP PREPARATION:	\$ 6,190
TASK 2: CONCEPTUAL DESIGN:	\$ 33,015
TASK 3: SCHEMATIC DESIGN:	\$ 50,625
TASK 4: STORMWATER DESIGN:	\$ 10,030
TASK 5: AERIAL UTILITY RECONFIGURATION:	\$ 4,750
TASK 6: FINAL DESIGN:	\$ 65,380
TASK 7: BID PHASE SERVICES:	\$ 16,815

The Consultant shall also provide hourly compensation rates and an indication of the amount of time of various professionals on the project for the Lead Consultant in Exhibit B-1 and for sub-consultants in Exhibit B-2.

The Consultant shall also provide a schedule of time it shall take to complete each Task in Schedule C.

Exhibit B

Hourly Compensation Rates

Exhibit C
Work Authorization Schedule

SCHEDULE

The schedule for the completion of the Work Authorization is as follows:

<u>Task</u>	<u>Task Duration*</u>	<u>Completion Date</u>
#1 Base Map Preparation	.5 Month	
#2 Conceptual Design	1 Months	
#3 Schematic Design	2.5 Months	
#4 Stormwater Design	1 Month	
#5 Aerial Utility Reconfiguration	1 Month	
#6 Final Design	3 Months	
#7 Bid Phase Services	1 Month	
	*Total time includes overlap of tasks	Eight (8) Months ** from the Effective Date of Project Commencement

** Time Duration excludes time delays due to public procedures and permitting.

EXHIBIT "C"
HOURLY RATES

<u>Classification</u>	<u>Hourly Rate</u>		
	<u>Urban Design</u>	<u>Landscape</u>	<u>Engineering</u>
(P291) Principal In Charge/Project Director	\$185.00	\$180.00	\$175.00
(P270) Principal Eng. / Principal Landscape Architect / Principal Planner / Sr. Project Manager			\$125.00
(P315) Sr. Project Eng. / Sr. Landscape Architect / Sr. Planner	\$150.00	\$120.00	
(S555) Project Engineer / Landscape Architect / Planner	\$105.00	\$105.00	\$105.00
(S630) Sr. C.A.D.D. Technician / Designer	\$85.00	\$85.00	\$85.00
(C180) C.A.D.D. Technician / Graphics Technician (All Disciplines)	\$60.00	\$60.00	\$60.00
(F135) R.P.R. / Field Inspector			
(P160) Permits Coordinator			
(A130) Administrative Assistant	\$45.00	\$45.00	\$45.00
(A170) Delivery / Logistics Personnel			
(P320) Psm / Director Of Surveying			
(S791) Survey / G.I.S. Field Crew			
(S755) Survey C.A.D.D. Technician			
(S890) Flat Processing Coordinator			

Administration

(P291) Principal In Charge/Project Director
 (A130) Administrative Assistant
 (P160) Permits Coordinator
 (A170) Delivery / Logistics Personnel
 Sub Total

Engineering / landscape Architecture

(P270) Principal Eng. / Principal Landscape Architect / Principal Planner / Sr. Project Manager
 (P315) Sr. Project Eng. / Sr. Landscape Architect / Sr. Planner
 (S555) Project Engineer / Landscape Architect / Planner

Personnel	Hourly* Rate	Hours per Task									Totals		
		Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	Task 8	Task 9	Hrs	Cost	
Administration													
												0	\$0
												0	\$0
												0	\$0
Sub Total (hours)		0	0	0	0	0	0	0	0	0	0	0	\$0
Engineering / Landscape Arch													
Specific Discipline												0	\$0
Urban Designers (Correa and Assoc.)	\$95.00	24	158	270	0	50	137	12				651	\$61,845
Landscape Architects (Falcon Bueno)	\$95.00	0	126	126	0	0	315	12				579	\$55,005
Engineers (Chen Moore)	\$85.00	46	71	153	118	0	264	171				823	\$69,955
												0	\$0
												0	\$0
												0	\$0
Sub Total (hours)		70	355	549	118	50	716	195	0	0		2,053	\$186,805
Surveying													
												0	\$0
												0	\$0
												0	\$0
Sub Total (hours)		0	0	0	0	0	0	0	0	0		0	\$0
Cost per Task (\$)		\$6,190	\$33,015	\$50,625	\$10,030	\$4,750	\$65,380	\$16,815	\$0	\$0			\$186,805
Budget \$ per Task		\$6,190	\$33,015	\$50,625	\$10,030	\$4,750	\$65,380	\$16,815	\$0	\$0			\$186,805
Subconsultants													
Total Labor and Subconsultants		\$6,190	\$33,015	\$50,625	\$10,030	\$4,750	\$65,380	\$16,815	\$0	\$0			\$186,805
Direct Expenses													\$9,340
Work Authorization Total													\$196,145

Exhibit B-2 Staff Time Estimate

Sub Contractor (insert NAME)

* Hourly Rates are an average of principle, project manager, and technician rates / hour

Celebrating 37 years

Falcón + Bueno is a design and planning studio. We are intentionally a small, critical, and transdisciplinary firm. This intent affords the opportunity to work closely with clients and users in addressing the contemporary landscape with enthusiasm and commitment.

We offer a broad scope of high-quality professional services in landscape architecture and urbanism, ranging in scale and complexity from the garden and park to the city and region. We are involved with the sustainable landscape as well as the vibrant urban place.

Our work is known for creative concepts that meet client objectives and fulfill user aspirations. The transdisciplinary approach of our team emphasizes collaboration for successful project realization. We interact with the client, users, and other consultants to formulate innovative solutions, addressing program restrictions, not only as challenges, but also as catalysts.

In our professional practice, we are fully dedicated to the ecological integrity of the landscape, the cultural aspirations of the community, and the aesthetic quality of the place. A truly memorable sense of place—a landscape that weaves nature and culture—is our goal.

To your project, we bring experience that has been regionally, nationally, and internationally recognized for its research, planning, and design excellence. Our professional work has been well awarded and widely published by the professional journals and associations.

Our experience comprises new development, urban interventions, historic preservation, as well as ecological restorations and reclamations that are environmentally and historically informed. We have successfully completed projects—on schedule and within budget—for the public and private sectors in Florida, Europe, the Bahamas, and the Caribbean region.

Falcón + Bueno is ready to express your vision. We hope to be part of your team.

• • • •
• • • •
• • • •
• • • •

F A L C Ó N + B U E N O

JUAN ANTONIO BUENO

He completed his graduate education in landscape architecture at the Graduate School of Design of Harvard University and his undergraduate education in engineering at the School of Engineering of the University of Miami. He is a registered landscape architect and professional engineer in the State of Florida.

Professionally, his practice of landscape architecture and urbanism involves the design and planning of landscapes across a broad range of scales from gardens to parks to urban regions. Since 1974, he shares his professional practice with his wife, the architect and landscape architect Teresita Falcón.

He is Professor of Landscape Architecture at Florida International University, where he has served as founding dean of the College of Architecture + The Arts, dean of the School of Architecture, director of the School of Design, and director of the Graduate Program in Landscape Architecture.

Academically, his research focuses on the landscapes of South Florida, the Spanish patio and cloister, and the natural and cultural landscapes of the urban region of Havana, including the research, planning, and design project Havana and Its Landscapes.

He is a Distinguished Alumnus of the Landscape Architecture Program at Harvard University. He has won national and international design competitions and has received numerous awards from the American Society of Landscape Architects for design projects, visionary work, teaching and research, and service and communications. His work has been widely published in the academic and professional literature, as well as exhibited in North America, South America, and Europe.

He is a member of the American Society of Landscape Architects, Council of Educators in Landscape Architecture, and International Federation of Landscape Architects. He has also served on the Board of Directors of AIA Miami and AIA Florida.

His professional and community service has involved the South Dade Planning Charrette, South Biscayne Bay Charrette, Virginia Key Beach Charrette, as well as the Rainforest Exhibit, Teaching Garden, Jewels of the Caribbean Exhibit, and the Greenhouse Wall of Orchids at Fairchild Tropical Botanic Garden.



• • • •
• • • •
• • • •
• • • •

F A L C Ó N + B U E N O

TERESITA FALCÓN

She completed her professional education in architecture at the School of Engineering and Environmental Design of the University of Miami. She is a registered architect and landscape architect in the State of Florida.

Professionally, her practice of landscape architecture and urbanism involves the design and planning of landscapes across a broad range of scales from gardens to parks to urban regions. Since 1974, she shares her professional practice with her husband, the landscape architect and professional engineer Juan Antonio Bueno.

Her research interests focus on the environmental and historic preservation of South Florida landscapes and gardens, and the natural and cultural landscapes of the urban region of Havana, including the research, planning, and design project Havana and Its Landscapes.

She has won national and international design competitions and has received numerous awards from the American Society of Landscape Architects for design projects and visionary work. Her work has been widely published in the professional literature, as well as exhibited in North America, South America, and Europe,

Her professional and community service has involved the Gables Estates Architectural Review Board, Girl Scouts of the United States of America Council of Tropical Florida Board, as well as the Rainforest Exhibit, Teaching Garden, Jewels of the Caribbean Exhibit, and the Greenhouse Wall of Orchids at Fairchild Tropical Botanic Garden.

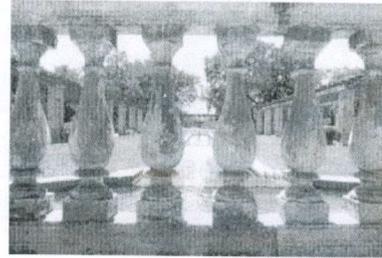




**Coral Gables Park + Open Space Master Plan
City of Coral Gables | Florida**

Falcón + Bueno provided urban design and community planning services together with Glatting Jackson for the 2015 vision plan of this community. The project included review of the existing recreation and open space system, projection of future needs, and recommendations for implementation. The objective of the master plan was to develop a long-range, yet practical, park and open space vision based on public consensus, partnership opportunities, and demographic changes.

Coral Gables is a vibrant community, one of the fastest growing cities in the United States. The city is recognized internationally for its high quality of life, Mediterranean Revival architecture, shaded streets, and thriving downtown district. As one of the first fully planned communities in the country, it values the preservation of its neighborhoods, natural environment, and cosmopolitan ambience.



The approach to the project first involved the research of historical, developmental, and recreational information. A comprehensive analysis was next conducted to compare the capacity of the existing recreation system with the projected needs for park and open space facilities. The effort also included a visioning process with neighborhood workshops and community surveys.

From the analysis, a vision for the future park and open space system was developed for the community. A detailed plan of action and specific strategies for funding were also provided to implement the vision.

**State Road 826
Miami-Dade County | Florida**

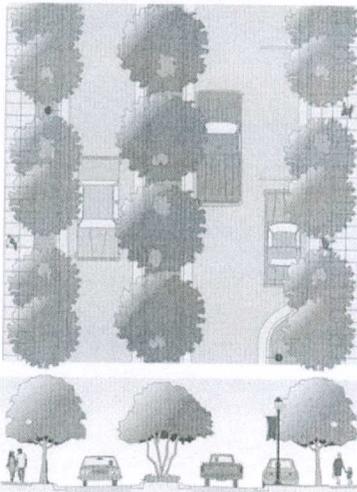
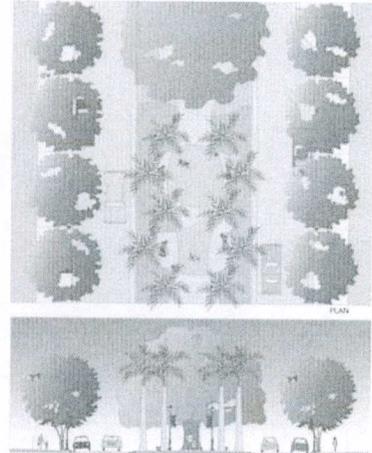
Falcón + Bueno provided urban planning and design services for this parkway and streetscape project along five miles of State Road 826 from Interstate 95 to the Intercoastal Waterway in Miami-Dade County. The project involved the application of xeriscape principles in parkway planting design for a variety of contexts, ranging from urban to natural areas. Construction cost was \$2.5 million in six phases.



**Memorial Boulevard
Miami | Florida**

Falcón + Bueno provided community and streetscape planning and design services for Memorial Boulevard, which stretches for one mile from Calle Ocho to Coral Way and extends for three city blocks to connect to Domino Park and the Tower Theater. It is located in Little Havana, one of Miami's most vibrant neighborhoods.

The intent of the design is to reflect the natural and cultural heritage of Miami, Little Havana, and the community of Memorial Boulevard. It takes advantage of the wider-than-typical boulevard to provide an ample parkway. This parkway allows for *paseos* near Calle Ocho and Coral Way, and greenways by the homes and school. Cost of construction is three million dollars.



**Church Street
South Miami | Florida**

The firm furnished community and streetscape planning and design services for the African American community of Church Street in South Miami.

The urban forest has been drastically reduced and minimally restored with exotic species. Except for the site of the Hammock House, there are no remnants of the original natural communities in the city.

A tree canopy analysis of the community revealed that the cover was sixteen percent, significantly below urban forestry goals of forty to sixty percent. A tree planting program was initiated with the objective of enhancing the street environment and increasing the tree canopy cover over a period of ten to twenty years.

**Sunny Isles Boulevard
Miami-County | Florida**

We provided streetscape planning and design services for the parkway along the edge of the Oleta River State Park.

The design reintroduces the native vegetation in the context of a regional park. The concept contrasts the formalistic design of the parkway *allées* with the natural margin of the mangroves at the perimeter of the park.



**Miami Dade College Wolfson Campus
Miami | Florida**

Falcón + Bueno provided urban design and landscape architecture services for the third phase of expansion at the downtown campus of this community college. The project involved streetscapes and a pedestrian mall for a city block in downtown Miami by Biscayne Bay.

The design established urban links around and through the campus to offer an ambience friendly to pedestrians and the access to the local and regional rapid transit systems that is critical for the vitality of a commuter institution.

Miami Dade College is one the best and largest community colleges in the nation. It enrolls the most Hispanic students and the second-most African American students of any college or university. It also graduates the highest number of minority students. At the Wolfson Campus, the enrollment exceeds twenty thousand students.



**Miami Riverwalk
Miami | Florida**

Teresita Falcón was involved with the design of the Miami Riverwalk, the first such project along this stream corridor in downtown Miami. The walk offered views of the river and a waterfront promenade along hotels, schools, and youth centers.

Juan Antonio Bueno has been involved with the planning and design of greenways since the aftermath of hurricane Andrew , when he led the natural pattern and regional context studies at the New South Dade Planning Charrette.

His efforts have involved research, planning, and design of plazas and streetscapes, parks and greenways in the city and suburbs, as well as greenways and blueways in rural and natural areas.

Falcón + Bueno is presently working on a variety of planning and design projects, including the green vision for the urban region of Havana.

In Miami, other projects include the streetscape for Calle Ocho, as well as plazas, streetscapes, and greenways for Memorial Boulevard in Little Havana. In South Miami, the firm has been involved with the streetscape for the African American community of Church Street. In South Miami-Dade, the work of the firm has comprised greenway and blueway networks.

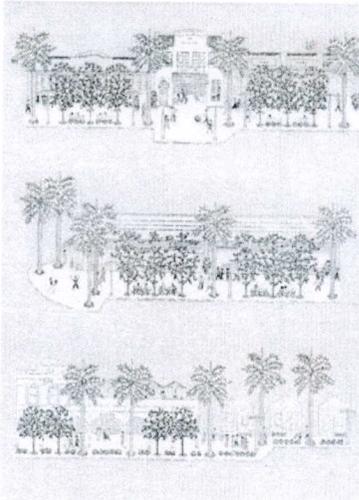


**North Miami Beach Boulevard
North Miami Beach | Florida**

Falcón + Bueno provided streetscape planning and design services for this parkway that stretches along five miles of State Road 826 from Interstate 95 to the Intercoastal Waterway in South Florida.

The landscape was designed to be appreciated at a vehicular travel speed of forty-five miles per hour. Vegetation groupings establish end and center sections of the road blocks in rhythms that can be well appreciated in motion. The specific area plantings also respond differently to the urban and natural contexts along the road.

The construction cost was two-and-a-half million dollars over six phases. Organic soil amendments, rather than irrigation, were used to maintain adequate soil moisture for the plantings using vegetation that is resistant to the extreme conditions of the wet and dry seasons in a subtropical climate.



**Lemon City | Little Haiti
Miami | Florida**

Falcón + Bueno won the competition to design the center of the Little Haiti community. Lemon City was once a prosperous South Florida port. Almost a century later, amid urban decline, it became home for thousands of Haitians seeking a better life in the *Etazini*. The design approach manifests the historical character of Lemon City and the vibrant Afro-European heritage of its newly infused Caribbean culture. It is a celebration of continuity and change in Miami.

Its main street is an architectural time capsule. Masonry vernacular, Mediterranean Revival, and Mission style coexist with Streamline Modern, even with shotgun house, which are also common in Haiti. The concept rescues and adapts the structures into a mix of markets, shop, cafés, and restaurants with hotels and housing above.

Brown fields are reclaimed as gateways to the community, where the traditional architectural forms are reinterpreted in the market plaza and towers. The towers house art and historic exhibitions and the work of local artists define the market plaza.

The streets are planted with a selection native to the Caribbean but long established in subtropical Florida. Royal palms highlight the community. Geiger and satinleaf trees shade the sidewalks.

The Nôtre Dame hammock is reforested with temperate live oaks that are planted, not in a naturalistic manner but on a grid, as a symbolic reminder that intervention was necessary due to neglect.





FALCÓN + BUENO

URBAN PLANNING + DESIGN

Biltmore Esplanade Coral Gables | Florida

Falcón + Bueno provided urban planning and design services for the City of Coral Gables in conjunction with the firm of Glatting Jackson.

The concept restored the original vision for the urban esplanade as *the* place for civic assembly and celebration in Coral Gables. The open space also connects the nationally registered historic sites of the Miami-Biltmore Hotel and Country Club, and the Coral Gables Congregational Church.



Biltmore Court Coral Gables | Florida

Our firm furnished urban design services for this historic preservation project that addresses the rehabilitation of the motor court at the former country club as a public courtyard.

The court provides seclusion and continuity with the city. Instead of a strictly historicist, the design seeks harmony with the architecture through the selection of materials, color, texture, scale, and character.. Bosques of orange trees provide intimates spaces and a grove of palms shelter sixteen water jets.

Memorial Plaza Miami | Florida

Falcón + Bueno offered urban design services for two plazas at Calle Ocho and Coral Way in Miami.

A rich texture of land uses along the streets afford the urban ambience favorable for plazas that express the character of the community.

A wide central space contrasts with the side sitting niches that are protected from vehicular traffic by benches and vegetation.



AC# 4736975

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

SEQ# L09113001096

DATE	BATCH NUMBER	LICENSE NBR
11/30/2009	098092654	LCP000039

The LANDSCAPE ARCHITECT BUSINESS
Named below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2011

FALCON & BUENO,
2655 LE JEUNE ROAD
SUITE 318
CORAL GABLES

FL 33134

CHARLIE CRIST
GOVERNOR

CHARLIE LIEM
INTERIM SECRETARY

DISPLAY AS REQUIRED BY LAW

AC# 4736926

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

SEQ# L09113001047

DATE	BATCH NUMBER	LICENSE NBR
11/30/2009	098092629	LA0000843

The LANDSCAPE ARCHITECT
Named below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2011

FALCON, TERESITA
2655 LE JEUNE RD STE 318
CORAL GABLES

FL 33134

CHARLIE CRIST
GOVERNOR

CHARLIE LIEM
INTERIM SECRETARY

DISPLAY AS REQUIRED BY LAW

AC# 4736915

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

SEQ# L09113001036

DATE	BATCH NUMBER	LICENSE NBR
11/30/2009	098092664	LA0000574

The LANDSCAPE ARCHITECT
Named below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2011

BUENO, JUAN A
2655 LE JEUNE ROAD SUITE 318
CORAL GABLES

FL 33134

CHARLIE CRIST
GOVERNOR

CHARLIE LIEM
INTERIM SECRETARY

DISPLAY AS REQUIRED BY LAW

AC# 5478093

STATE OF FLORIDA

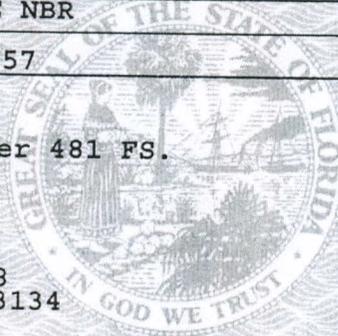
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN

SEQ# L11022801989

DATE	BATCH NUMBER	LICENSE NBR
02/28/2011	108197825	AAP000257

The ARCHITECT PARTNERSHIP
Named below IS CERTIFIED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2013

FALCON & BUENO
2655 LE JEUNE ROAD STE 318
CORAL GABLES FL 33134



RICK SCOTT
GOVERNOR

CHARLIE LIEM
SECRETARY

DISPLAY AS REQUIRED BY LAW

AC# 5477568

STATE OF FLORIDA

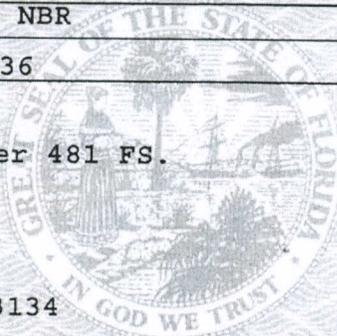
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF ARCHITECTURE & INTERIOR DESIGN

SEQ# L11022801464

DATE	BATCH NUMBER	LICENSE NBR
02/28/2011	108197710	AR0007736

The ARCHITECT
Named below IS LICENSED
Under the provisions of Chapter 481 FS.
Expiration date: FEB 28, 2013

FALCON, TERESITA
2655 LE JEUNE RD STE 318
CORAL GABLES FL 33134



RICK SCOTT
GOVERNOR

CHARLIE LIEM
SECRETARY

DISPLAY AS REQUIRED BY LAW

State of Florida

Board of Professional Engineers

Attests that

Juan A. Bueno, P.E.

IS LICENSED AS A PROFESSIONAL ENGINEER UNDER CHAPTER 471, FLORIDA STATUTES

EXPIRATION: 2/28/2013

P.E. LIC. NO:

AUDIT NO: 228201326252

18425



Peter M Moore, PE, LEED AP
President and CEO

Education

Bachelor of Science, Civil Engineering,
University of Florida, 1997
Master of Engineering, Civil Engineering,
University of Florida, 2004

Registration

Professional Engineer, Florida, 58709, 2002

Summary

As the President of the firm, Mr. Moore is ultimately responsible for all day to day operations of the firm. Mr. Moore works as the Client Project Manager for work in Broward County, Pompano Beach and Deerfield Beach and continues to be involved in the successful completion of projects. These projects include sanitary collection improvements, pump station rehabilitation, transportation engineering enhancements, water and reclaimed water consulting along with all other phases of civil engineering design and neighborhood improvements. Additionally, Mr. Moore serves as the Assistant City Engineer for the City of Coral Springs and is the spokesperson for the City's Engineering Division. Finally, Mr. Moore serves on the firm's QA/QC Committee ensuring the consistency of the quality product throughout the firm.

Mr. Moore has both a Bachelor of Science and Master of Engineering degree in Civil Engineering, is a registered Professional Engineer in Florida and is a LEED Accredited Professional.

Project Experience

Lauderdale-by-the-Sea Town Engineer.

Chen Moore and Associates is the Town Engineer for the Town of Lauderdale-by-the-Sea, providing technical support to all engineering related matters. One of the main priorities is reviewing and approving engineering plan submittals for site plan review and engineering permits. This requires ensuring all submittals comply with Town

ordinances and all County, State and Federal regulations regarding site development.

Reviews include general site conditions, water, sewer, paving, drainage, appropriate permit calculations, NPDES permitting and compliance, traffic analysis and proper coordination with surrounding municipalities.

Several studies have been made and recommendations have been given to the town on a variety of topics including: stormwater study for flooding prevention; NPDES compliance study and report; MS4 annual report; parallel, angled and valet parking specifications; drive-through restaurant requirements; structural beautification features; streetscape improvements for El Mar Drive; general engineering details and specifications; turtle compliant street lights; GIS map production; archiving digital record drawings; and sewer design for Palm Club.

Lauderdale-By-The-Sea Stormwater Master Plan. Chen Moore and Associates completed the Stormwater Master Plan for the Town of Lauderdale-by-the-Sea. This project included gathering all existing information available from previous permits, reports and studies and confirming their accuracy for use in the existing conditions model, updating the digital stormwater atlas in GIS, utilizing LIDAR data to create a surface model of the Town, collecting resident complaints and preparing the existing conditions model with Interconnected Pond Routing (ICPR) Software. After the existing conditions model was completed, Chen Moore and Associates identified areas with flooding issues and recommended stormwater improvements. A proposed conditions model was prepared with ICPR and the results was presented to the public and Town Commissioners.



El Nino Grande Drainage Improvements, Margate, FL. Chen Moore and Associates was the prime consultant for the El Nino Grande Drainage Improvements Project. This project, funded by Community Development Block Grant Funds, served two separate neighborhoods that had chronic flooding problems. The two areas were permitted and designed by examining the original permit documents and close coordination with the regulatory agencies. Additionally, a great deal of public involvement went into this contract as a result of the high profile of the drainage improvements and the City's desire for public involvement in the CDBG process.

Broadview Park Neighborhood Improvement Project, Broward County, FL. The Broadview Park Neighborhood Improvement Project (BPNIP) was the last of the Neighborhood Infrastructure Improvements projects to be carried out by Broward County in the unincorporated areas. Chen Moore and Associates was selected as the prime consultant for the Basis of Design Report (BODR) and to design and administer the construction of improvements to subsequent bid packages. The four Bid Packages address water, sanitary sewer and drainage improvements, while introducing sidewalks and enhancing the community's roadway and landscape.

The first two Bid Packages included replacing an entire existing water system, as it was formerly a private utility, and constructing three new lift stations, thousands of linear feet of gravity sewer, force mains, drainage improvements, roadway restoration and new sidewalks. The gravity sewer system was designed using a GIS

capacity analysis tool that calculated and summarized the flow rates for each parcel in the service area. GIS was utilized during construction to track resident complaints, track the work that had been completed and estimate the Contractor's variance from the original schedule.

The third and fourth Bid Packages addressed the sanitary sewer and drainage improvements, as well as improvements to the community's sidewalks, roadway and landscape.

Coral Springs 2010/2011 City Engineer. Since 2005, Chen Moore and Associates has served as the City Engineer for Coral Springs. In this position, the firm performs the typical duties of an on staff engineer, including engineering permit review and inspections, development reviews and concurrency evaluations, coordination with other City departments and outside agencies and a variety of special projects. One of the special projects recently was engineering assistance to the Community Development Division rewrite of the Land Development Code for the new provisions of redevelopment. As part of this rewrite, multiple sections of referenced code were reviewed and revised to meet both the intent of the City to keep their standards high and the needs of the development community for flexibility in dealing with existing conditions. Chen Moore and Associates is currently updating the City's Engineering Standards including a special section on redevelopment.



Jason J McClair, PE, CFM, LEED AP
Branch Manager and Senior Engineer

Education

Bachelor of Science, Civil Engineering,
University of Florida, 1996

Registration

Professional Engineer, Florida, 56962, 2001

Summary

Jason McClair is a senior civil engineer with experience and knowledge in various disciplines, such as utility infrastructure design, regulatory permitting, geotechnical engineering, and computer aided flow modeling for stormwater collection, water distribution, and sanitary transmission systems. He is currently the project manager for the Fort Lauderdale-Hollywood International Airport Stormwater Master Plan Update and City Center Right of Way Infrastructure Improvement Project for the City of Miami Beach's Capital Improvement Program Office. He is also the client contact for the Town of Lauderdale-by-the-Sea, City of Pompano Beach, City of Fort Lauderdale, City of Coconut Creek, and Village of Islamorada.

Project Experience

Lauderdale-by-the-Sea Town Engineer.

Chen Moore and Associates is the Town Engineer for the Town of Lauderdale-by-the-Sea, providing technical support to all engineering related matters. One of the main priorities is reviewing and approving engineering plan submittals for site plan review and engineering permits. This requires ensuring all submittals comply with Town ordinances and all County, State and Federal regulations regarding site development.

Reviews include general site conditions, water, sewer, paving, drainage, appropriate permit calculations, NPDES permitting and compliance, traffic analysis and proper coordination with surrounding municipalities.

Several studies have been made and recommendations have been given to the town on a variety of topics including: stormwater study for flooding prevention; NPDES compliance study and report; MS4 annual report; parallel, angled and valet parking specifications; drive-through restaurant requirements; structural beautification features; streetscape improvements for El Mar Drive; general engineering details and specifications; turtle compliant street lights; GIS map production; archiving digital record drawings; and sewer design for Palm Club.

Lauderdale-by-the-Sea has two major FDOT roads passing through it requiring coordination with FDOT for many of the projects. Coordination is also required with the City of Fort Lauderdale to provide water and sewer utilities, the City of Pompano Beach who provide sewer utilities, and Florida Power and Light for power supply. Chen Moore and Associates also coordinated traffic studies and structural analysis on existing facilities.

Flamingo Avenue Stormwater Improvements, Lauderdale-by-the-Sea, FL.

Chen Moore and Associates developed engineering drawings for stormwater improvements along Flamingo Avenue between North Ocean Drive and the beach area within the Town of Lauderdale By-The-Sea. The drainage improvements included the installation of new exfiltration trench which will be interconnected with existing drainage structures. Since a portion of the project area is located seaward of the Coastal Construction Control Line (CCCL), Chen Moore and Associates was responsible for permitting the project through FDEP.



Highland Estates Improvements, Wilton Manors, FL. Chen Moore and Associates was retained by the City of Wilton Manors to construct roadway improvements and drainage improvements within the Highland Estates neighborhood. The proposed drainage improvements are proposed to eliminate localized flooding. The proposed construction will include the installation of an exfiltration trench system with multiple catch basin inlets along with the restoration of the entire roadway area. The proposed roadway improvements include the asphalt resurfacing of neighborhood roadways, the installation of stamped asphalt crosswalks, and the installation of new sidewalk. This project will be funded by CDBG Grant monies.

Proud Neighborhoods Capital Improvement Project, North Miami Beach, FL. Chen Moore and Associates was selected as one of the consultants to participate in the Proud Neighborhoods Capital Improvement Project for the City of North Miami Beach. Chen Moore and Associates completed several right of way improvements projects within the City. The scope of the projects included addressing drainage concerns, providing new curbing and street paving, replacing/adding sidewalks, providing new paved parking areas which were gravel, and providing landscaping areas for future plantings to be completed by the City. The projects include:

- NE 172nd Street between NE 18th Avenue and NE 19th Avenue

- NE 186th Street between NE 18th Avenue and NE 19th Avenue
- NE 162nd Street between NE 17th Avenue and NE 18th Avenue adjacent to Allen Park
- NE 168 Street (between NE 18 Avenue and NE 19 Avenue) and NE 18 Avenue (between NE 168 Street and NE 169 Street)
- NE 18th Ave Between NE 167th & 168th Streets
- NE 173rd Street from West Dixie Highway to NE 23rd Avenue

Fort Lauderdale-Hollywood International Airport Stormwater Master Plan Update.

Chen Moore and Associates worked on the Stormwater Master Plan update for the Fort Lauderdale-Hollywood International Airport. This project included gathering all existing information available from previous permits, reports and studies and confirming their accuracy for use in the existing conditions model; preparing the existing conditions model with Interconnected Pond Routing Software; and working with Broward County Environmental Protection Division and the South Florida Water Management District to confirm that the modeled flood stages and peak discharges match the levels in previously issued permits. In addition, Chen Moore and Associates prepared the "future conditions" model based on the airport master plan and submitted for a conceptual stormwater management permit from Broward County EPD and SFWMD as well as worked with the consulting engineers for the new south runway to submit for a construction permit.



Jose Acosta, PE
Branch Manager/Senior Engineer

Education

Bachelor of Science, Civil Engineering,
University of Miami, 1999
Bachelor of Science, Architectural
Engineering, University of Miami, 1999
Master of Business Administration, Auburn
University, 2003

Registration

Professional Engineer, Florida, 63827, 2004

Summary

Mr. Acosta recently joined Chen and Associates' Miami Beach office as a senior engineer and project manager. Previously, Mr. Acosta served as the director of engineering, senior project manager and senior engineer for Miller, Legg & Associates (MLA). Mr. Acosta has over 12 years of design and project management experience in various industries, including municipal continuing service contracts, transportation, K-12 education, higher education, healthcare, and commercial/residential/industrial private development. His background includes neighborhood improvement projects, streetscape enhancements, utility relocation, on- and off-site infrastructure design, bidding assistance and construction administration services.

Project Experience

Lake Patricia Neighborhood Roadway & Drainage Improvements, Miami Lakes, FL. Chen Moore and Associates was selected as one of two consultants to implement the drainage improvements identified on the most recent Town of Miami Lakes Stormwater Master Plan. CMA is the prime consultant providing surveying, planning, geotechnical investigation, utility coordination, schematic and final design phases, government permitting, bidding assistance, construction administration and statements of work completion for infrastructure improvements in the project located within approximately one square mile of an existing residential

neighborhood near Lake Patricia in southern Miami Lakes near Ludlam Road. The CMA team modeled the existing conditions to derive the best value locations for stormwater improvements, while maximizing and improving the current stormwater system. The designs included connecting portions of the existing system and utilizing strategic locations for exfiltration trench to increase the overall storage capabilities of the neighborhood. CMA is also assisting the Town of Miami Lakes with receiving a FEMA grant for the project budgeted at over \$700,000.

Miami Gardens Stormwater

Improvements, Miami Gardens, FL. Chen Moore and Associates was asked by the City of Miami Gardens to design the stormwater improvements for several residential areas within the City. We also evaluated the existing site conditions to strategically design improvements to meet the most critical needs of the City and maximize the value of their construction budget. The design included milling and resurfacing of roads and sidewalk improvements. The project scope included government permitting, bidding services and construction administration to support the efforts of City staff. Projects include

- NW 9th Avenue to NW 10th Place and from NW 191st Street to NW 193rd Street
- NW 19th Ave To NW 21st Ave: from NW 191 Tr To NW 26th St
- NW 38th Ave To NW 38th Pl: from NW 208th St To NW 209th St
- NW 38th Ct

Plantation SW 70th Avenue. This project consisted of the segment of SW 70th Avenue that connects Broward Boulevard with the Plantation Preserve Golf Course and its Clubhouse. The project was designed for the City of Plantation in conjunction with the FDOT designers working on Broward Boulevard meeting FDOT roadway design requirements, while addressing the needs and



concerns of the City of Plantation. Services included roadway and utility design, permitting through FDOT, the City of Plantation and the Old Plantation Water Control District and construction administration working within the framework of the FDOT letting and construction schedule for Broward Boulevard. This project represents Jose's experience prior to joining Chen Moore and Associates.

Sheridan Street Widening. The Sheridan Street widening project consisted of taking a four-lane divided arterial to six-lane divided from the entrance of Brian Piccolo Park (west of Pine Island Road) to University Drive. The project included geometric, pedestrian, transit improvements to the intersections at University Drive and Pine Island Road, roadway profile grading, and a new drainage system. These roadway improvements were included as part of the Voluntary Regional Transportation Network Agreement for Road Improvements per the traffic concurrency requirements of the Broward County Land Use Code. The improvements were designed with the Broward County Highway Construction and Engineering Division, Broward County Traffic and Engineering Division, the Florida Department of Transportation. This project represents Jose's experience prior to joining Chen Moore and Associates.

Monterra Boulevard and Tarama Avenue, Cooper City, FL. Monterra Boulevard and Tarama Avenue are the two main spine roads within the Monterra Plat, formerly known as the Waldrep Dairy property. The projects consisted of just under 2-mile stretch of 4-lane roadway corridors with turnlanes, significant landscape architecture features and pedestrian corridors connecting the various residential developments within the Monterra development. Monterra Boulevard goes from Pine Island Road east to a roundabout and then northeast to University Drive. Tarama Avenue starts midway through Monterra Boulevard and goes south to Sheridan Street. The projects included the modeling, design and implementation of the mainline infrastructure for the overall project. This included interconnected drainage culverts, water main,

conduit lines for power, cable and gas, and force main for five sanitary lift stations via Cooper City's Utility Department. This project represents Jose's experience prior to joining Chen Moore and Associates.

SW 60th Avenue Sidewalk and ROW Improvement Project, Pinecrest, FL.

Chen Moore and Associates prepared sidewalk expansion plans for over 2 ½ miles of sidewalk within an existing wooded estate residential community. The design included traffic/roadway modifications, ADA grading considerations along with a significant effort to balancing the Miami-Dade County Public Works specifications with the residents' requests to protect the existing mature tree canopy. The project included rights-of-way within the Village of Pinecrest and the City of Coral Gables. The plans were permitted via both municipalities and Miami-Dade County Public Works. Services included bidding assistance, meetings with each resident adjacent to the project, construction observation/inspection and project closeout services.

Weston Town Center, Weston, FL. The project consisted of the conceptualizing, master planning, development and construction of this 30-acre mixed-use project including retail, office, residential and future government services. The site elements include a lakefront linear park with a band shell and interactive fountain. This project serves as the 'main street' for the Weston community. The design included special design of pedestrian corridors and landscape architecture elements to offer a quality engineering design and create a sense of place. Services included master planning, paving, grading, drainage, water, sanitary sewer, roadway design, public meetings to address citizen and local business concerns, bidding assistance, and construction administration services. Water and sewer utilities were coordinated with the City of Sunrise's utility system. This project represents Jose's experience prior to joining Chen Moore and Associates.

State of Florida

Board of Professional Engineers

Chen And Associates Consulting Engineers, Inc.



Is authorized under the provisions of Section 471.023, Florida Statutes, to offer engineering services to the public through a Professional Engineer, duly licensed under Chapter 471, Florida Statutes.

Certificate of Authorization

EXPIRATION: 2/28/2013
AUDIT NO: 228201301003 D

CA. LIC. No:
4593

THIS DOCUMENT HAS A COLORED BACKGROUND • MICROPRINTING • LINEMARK™ PATENTED PAPER

AC# 5753669

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
BOARD OF LANDSCAPE ARCHITECTURE

SEQ# L11091601435

DATE	BATCH NUMBER	LICENSE NBR
09/16/2011	118043327	LA6666941

The LANDSCAPE ARCHITECT
Named below HAS REGISTERED
Under the provisions of Chapter 481 FS.
Expiration date: NOV 30, 2013

BETANCOURT, CRISTOBAL ALEX
4838 SE GRAHAM DRIVE
STUART FL 34997

RICK SCOTT
GOVERNOR

DISPLAY AS REQUIRED BY LAW

KEN LAWSON
SECRETARY

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT

115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1995 - 954-831-4000
VALID OCTOBER 1, 2010 THROUGH SEPTEMBER 30, 2011

DBA: CHEN AND ASSOCIATES
Business Name: CHEN AND ASSOCIATES
Business Type: LANDSCAPE ARCHITECTURE
Owner Name: CHEN CHEN
Business Location: 500 W. CYNRESS CREEK RD STE 411 PORT LAUDERDALE, FL 33309
Business Phone: 954-730-8707
Business Opened: 03/15/2011
State/County/Cert/Reg: FL/224000425
Exemption Code: NONEXXXXXX

Name		Seats	Employees	Machines	Professionals	
For Pending Business Only						
Number of Machines:			Standing Type:			
Tax Amount	Trailer Fee	MP Fee	Penalty	Prior Years	Collection Cost	Total Paid
30.00	0.00	0.00	0.00	0.00	0.00	30.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT WHEN VALIDATED
This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name has changed or you have moved the business location. This receipt does not indicate that the business is legal or that it is in compliance with State or local laws and regulations.

Mailing Address:
CHEN AND ASSOCIATES
500 W. CYNRESS CREEK RD STE 411
PORT LAUDERDALE, FL 33309
Receipt #73A-10-0000443
Paid 03/15/2011 30.00

2010 - 2011

