



V I L L A G E O F K E Y B I S C A Y N E

Office of the Village Manager

Village Council

Franklin H. Caplan, *Mayor*
Michael E. Kelly, *Vice Mayor*

Michael W. Davey
Enrique Garcia
Robert Gusman
Mayra P. Lindsay
James S. Taintor

Village Manager
John C. Gilbert

DATE: August 28, 2012
TO: Honorable Mayor and Members of the Village Council
FROM: John C. Gilbert, Village Manager
RE: Emergency Inspections and Building Permit Plan Review Following a Natural or Man-Made Disaster

RECOMMENDATION

It is recommended that the Council approve the attached Resolution which establishes the following:

1. Selects the proposal of Atkins North America, Inc. for Emergency Inspections and Building Permit Plan Review in the event of a natural or man-made disaster.
2. Authorizes the Village Manager to negotiate final terms based on the firm's proposal and enter into an agreement in form and substance approved by the Village Attorney.

BACKGROUND

In the event of an emergency such as a hurricane, there may be substantial damage to buildings in the Village. If this occurs, the Building, Zoning and Planning Department will require additional inspectors to meet a significant increase in building permit applications and inspections. The services to be provided by Atkins North America Inc. would provide inspectors to the Building, Zoning and Planning Department following such emergency.

The Village issued a Request for Proposals (RFP) in order to competitively solicit professional services for inspections and building permit plan review in the event of an emergency or natural or man-made disaster, The Department Director and Chief Building Official interviewed each firm and evaluated the proposals received based on the criteria set forth in the RFP. The Department Director and Chief Building Official have recommended Atkins North America, Inc. as the most qualified firm to meet the Village's needs and provide the services. Atkins North America Inc. is an international company with offices in Miami and Ft. Lauderdale. In the event of a disaster that affects Miami-Dade and Broward County, this firm has the resources to provide the required services.

RESOLUTION NO. 2012 - _____

A RESOLUTION OF THE VILLAGE COUNCIL OF THE VILLAGE OF KEY BISCAYNE, FLORIDA, SELECTING THE PROPOSAL OF ATKINS NORTH AMERICA, INC. FOR EMERGENCY INSPECTIONS AND BUILDING PERMIT PLAN REVIEW; AUTHORIZING THE VILLAGE MANAGER AND OTHERS TO NEGOTIATE FINAL TERMS FOR SUCH SERVICES AND ENTER INTO AN AGREEMENT; PROVIDING FOR IMPLEMENTATION; AND PROVIDING FOR AN EFFECTIVE DATE.

WHEREAS, the Village of Key Biscayne, Florida (the "Village") issued a Request for Proposals (RFP) in order to solicit through a competitive procurement process professional services for inspections and building plan review following a natural or man-made disaster ("Services"); and

WHEREAS, Atkins North America, Inc. ("Firm") submitted a proposal in response to the RFP and after review of the proposal submitted, the Village wishes to select the proposal of the Firm to provide the Services; and

WHEREAS, the Village Council finds that this Resolution is in the best interest and welfare of the residents of the Village.

NOW, THEREFORE, BE IT RESOLVED BY THE VILLAGE COUNCIL OF THE VILLAGE OF KEY BISCAYNE, FLORIDA, AS FOLLOWS:

Section 1. Recitals Adopted. Each of the above stated recitals are hereby adopted, confirmed and incorporated herein.

Section 2. Selection of Firm. The Village Council hereby selects the proposal of the Firm to provide the Services, based on the fee schedule included in the proposal, a copy of which is attached as Exhibit "A" to this Resolution.

Section 3. Village Manager and Attorney Authorized. The Village Manager is hereby authorized to negotiate with the Firm the final terms of an agreement for the provision of

the Services, consistent with the Proposal attached as Exhibit "A, and to execute an Agreement with the Firm acceptable in form and substance to the Village Attorney. The Village Attorney is hereby authorized to prepare an agreement and to do all other things necessary to accomplish the completion of an agreement.

Section 4. **Implementation.** That the Village Manager is hereby authorized to take any and all action which is necessary to implement the proposal and an agreement for the Services and the purposes of this Resolution.

Section 5. **Effective Date.** This Resolution shall be effective immediately upon adoption.

PASSED AND ADOPTED this _____ day of August, 2012.

FRANKLIN CAPLAN, MAYOR

ATTEST:

CONCHITA H. ALVAREZ, MMC
VILLAGE CLERK

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

Village Attorney

Inspections and Building Permit Plan Reviews (All Trades) Following a Natural or Man-Made Disaster

Village of Key Biscayne



Plan Design Enable

Presentation approach

Introductions

Qualifications of firm

- Globally recognized firm with excellent multidiscipline resources

Qualifications of project team

- Strong local resources with expertise in plans review and inspection services

Approach to scope of work

- Detailed understanding of scope with creative solutions
- QA/QC process

Previous similar projects and references

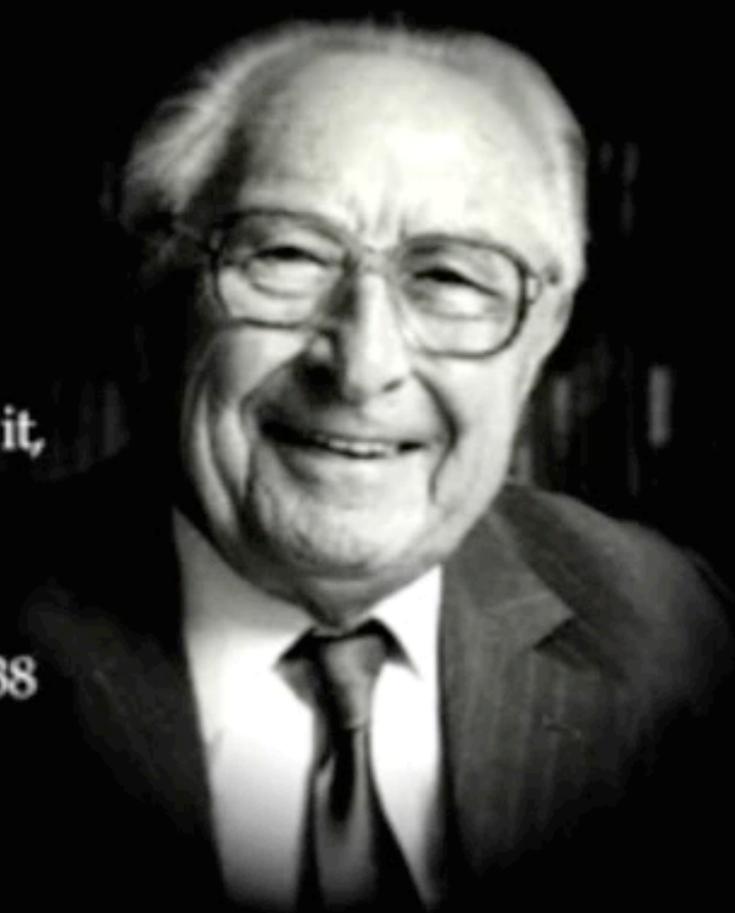
- Extensive experience in plans review and inspections

Questions



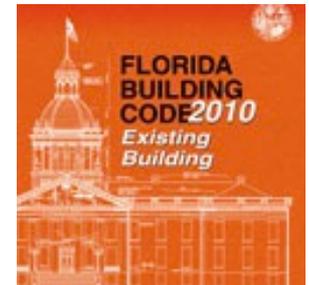
"I saw a wave approaching,
an industrial wave with nobody on it,
so I climbed on top".

Sir William Atkins, 1938



Qualifications of firm

- Plans reviews
 - Building, structural, electrical, plumbing, mechanical, and fire
 - Municipal/county, state, and national codes
- Inspection services
 - State licensed inspectors
 - BORA-qualified inspectors
- Damage assessment
 - Dedicated emergency management group
 - Cost estimating and scheduling services
- Full-service design firm
 - Coastal engineering
 - Forensics engineering

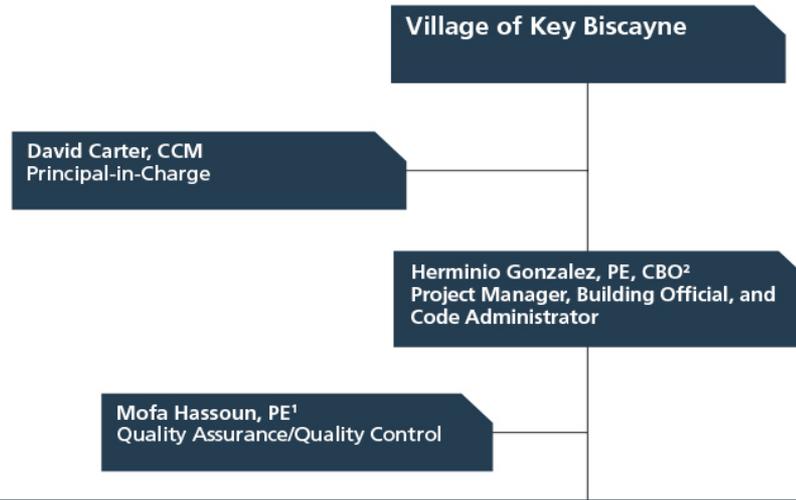


Qualifications of firm

- Natural Disaster – Extensive FEMA experience
 - Public assistance and individual assistance (PA/IA)
 - Financial tracking and reimbursement
- Debris management and disaster operations
- Emergency management preparedness
 - Planning
 - Exercises
 - Discussion based
 - Operations based
 - Training



Qualifications of project team



Code Review and Inspection Team

Shaista Javed² Architectural/Buildings	Albert Bryant² Electrical	Pelayo Calante, PE, LEED AP¹ Mechanical/Plumbing/Gas	Douglas Ramirez, PE¹ Fredy Tain, PE, SI¹ Structural/Threshold	Armando Amet III² Buildings	Mofa Hassoun, PE¹ Roofing Inspector
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Technical Support Team

Elvys Diaz, AIA Architectural/Buildings	Rafiq Alqasem, PE, PTOE¹ Jeremy Bourdon, PE¹ Transportation/Traffic	Harry Belton, RLA Landscape Architecture	Jose Lopez, PE, PMP¹ Permitting
Pedro Trevin, PE, LEED AP BD+C¹ Electrical	Thomas Farmer, PE, LEED AP¹ Mechanical/Plumbing	Manuel Perotin, PE, CFM Engineering and Damage Assessments	Emerson Brown³ Fire and Life Safety
John Alford, FPE, PE, LEED AP BD+C¹ Fire Protection/Plumbing	William Pitcher, PE¹ Structural	Victor Herrera, PE¹ Civil	Praveen Ommi, CEP, AVS, LEED AP Juan Alfonso Value Engineering/Cost Estimating/Scheduling

¹ PE/Architecture qualifies as an examiner and inspector under FS 468

² Holds a FS 468 license and/or ICC certification

³ Holds a FS 633 license certification

Qualifications of project team

David Carter, CCM – Principal-in-Charge

- 30 years of program management experience
- Corporate resource allocation

Herminio Gonzalez, PE – Project Manager

- 32 years of project and construction management experience
- Day-to-day operations and client liaison
- Former Director of MDC Building Code Compliance
- Current State of Florida Building Code Commissioner

Juan Alfonso, Associate AIA – South Florida Group Manager for Construction Management

- 16 years of experience in construction management and project controls

Qualifications of project team

Shaista Javed – Plans Review and Inspector

- 23 years of construction management experience
- Architectural and buildings
- Roofing assessments and testing

Albert Bryant – Plans Reviewer and Electrical Inspector

- 40 years of construction management experience
- Electrical, fire alarm, and life-safety inspections

Armando Amet III – Building Inspector

- 27 years of experience in construction inspections
- Buildings, utilities, and roadway construction

Qualification of project team

Douglas Ramirez, PE – Structural Engineer

- 10 years of experience in structural designs (commercial and residential)
- Assessments of hurricane damaged structures

Pelayo Calante, PE, LEED AP – Mechanical Engineer

- 28 years of extensive experience (commercial and residential)
- Mechanical, civil, and environmental engineering
- Project management

Manuel Perotin, PE, CFM – Engineering and Damage Assessments

- 18 years of experience in emergency management and first response
- Emergency and financial recovery management experience

Project approach

Damage Assessment (Natural or Man-Made Disaster)



Project approach

Code enforcement/inspections team

- Minimum of 8 inspectors/plan reviewers presently assigned for this project (based out of the Miami office)*
*(*resources available as needed)*
- An additional 12 construction inspectors and administration support personnel (all in South Florida)
- 10 project controls professionals in South Florida

Construction Inspection Services Team

Vertical Construction Inspection Team

Hermينو Gonzalez, PE, CBO
Armando Amet III
Shaista Javed
Emerson Brown
Pedro Beltran, EI

Threshold Inspections

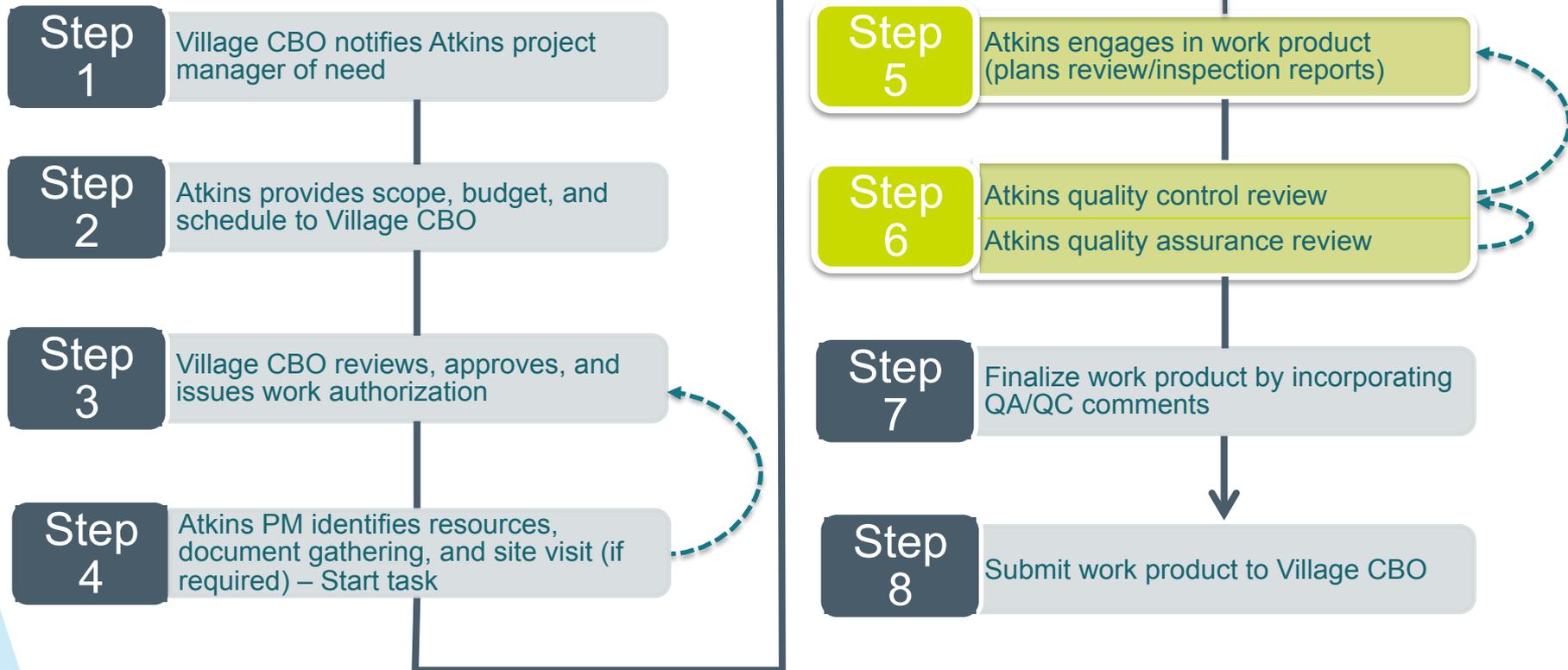
Fredy Tain, PE, SI

Horizontal Construction Inspection Team

Hermينو Gonzalez, PE, CBO
Armando Amet III
David Adato, EI

Project approach

Task management process



Project approach

QA/QC process

- Formal quality control process
- Process goes beyond standard checks
- Use of advanced software to eliminate errors (GIS, On-Screen)
- Checks and balances system in place
- Understand project goal – error free project under budget, on time



Similar projects

Current projects

- Miami Dade College Plan Review and Inspection Services
 - FBC reviews and inspections
 - SREF review and inspections
 - Florida Fire Prevention Code reviews and inspections
- City of Miami Beach – ROW Improvement Projects
 - Reviews and inspections
 - Construction management services
 - Cost estimating and scheduling support
- Miami International Airport – Booster Pump Station
 - MEP, civil, and building inspections
 - Building permitting support
 - Cost estimating and scheduling support



Similar projects

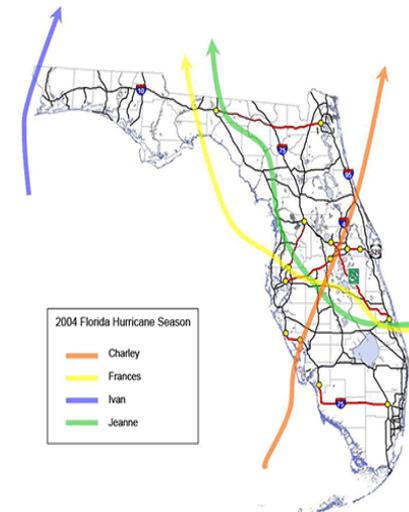
Current projects

- Miami-Dade County Public Schools – Life Safety/ADA Upgrades
 - FBC reviews and inspections
 - Florida Fire Prevention Code reviews
 - Cost estimating and scheduling support
- FEMA – Technical Assistance Research Contract (TARC)
 - Building Code adoption support
 - Damage field assessments
 - Planning and engineering services



Previous similar projects

- City of Fort Lauderdale – Hurricanes Wilma and Katrina Remediation Services
 - FBC reviews and inspections
 - Florida Fire Prevention Code reviews and inspections
 - Cost estimating and scheduling support
- Charlotte County Public Schools – Hurricane Charley Safety Inspections
 - Damage assessment
 - Reviews and inspections
 - Cost estimating and scheduling support
- Hurricane Katrina Emergency Management Support – FDOT District 3
 - Damage assessment
 - GIS database development



Client testimonials

PERFORMANCE EVALUATION SURVEY
RFQ 22-1011

Date: April 5, 2011

Company Name: Atkins, formerly PBS&J

Point of Contact: Teresa Christ, PE

Phone and Email: 772.468.5329 / teresa.christ@atkinsghb.com

Please evaluate the performance of the company (1 = poor; 10 = excellent).

NO	CRITERIA	LINE#	SCORE
1	Ability to perform scope of work	(1-10)	10
2	Ability to communicate effectively and efficiently	(1-10)	10
3	Ability to provide services within the required timeframe	(1-10)	10
4	Quality and accuracy of work	(1-10)	10
5	Professionalism	(1-10)	10
6	Overall customer satisfaction based on performance and quality of services	(1-10)	10
7	Demonstrated success in provide resident project representative services for right-of-way improvement projects	(1-10)	10
8	Comfort level in hiring again or referring to another municipality	(1-10)	10

Overall Comments:
Atkins (Formerly PBS&J) did an outstanding job on the GGP project - Kendall Town Center in Miami, FL. I would recommend them without hesitation on any project. Their knowledge and workers are the best.

Company providing Referral: General Growth Properties, Inc.
By: _____
Title: _____
Date: _____
By: _____
Title: _____
Date: _____

Submitted to Maria Estvez by April 16, 2011, via fax to m.estvez@miamibeschf.gov.

"Atkins {PBS&J} did an outstanding job on the GGP project – Kendall Town Center in Miami, FL. I would recommend them without hesitation on any project. Their knowledge and workers are the best."

Jeffrey Wright, formerly with General Growth Properties, Inc. (GGP)

"Atkins...has been contracted by the Mississippi Emergency Management Agency since Nov. 2005 to present. This contract is for services to provide assistance in the Public Assistance program in the aftermath of Hurricane Katrina...The staff assigned to this contract has been extremely knowledgeable, professional and hardworking. The work tasked has been completed correctly in a timely manner and never failed to meet or exceed the requirements of the contract..."

Thomas M. "Mike" Womack, Executive Director Mississippi Emergency Management Agency

"Atkins {PBS&J} is currently providing Capital Program Support Services...to provide technical services for work program scheduling, information solutions, construction management, cost estimating, contract management, construction scheduling...I wish to express our gratitude and commend the quality of the services provided by the Atkins {PBS&J} team...Atkins {PBS&J} has continued to provide high quality services..."

David J. Mendez, PE, formerly with City of Miami

STATE OF MISSISSIPPI
MISSISSIPPI EMERGENCY MANAGEMENT AGENCY
THOMAS M. "MIKE" WOMACK
EXECUTIVE DIRECTOR

September 29, 2011

David Raphe, Manager
Grand Bay National Estuarine Research Reserve
Mississippi Department of Marine Resources
6007 Bayou Haven Road
Moss Point, MS 39562

Re: Atkins Global Letter of Recommendation

Dear Mr. Raphe:

Atkins Global, formerly Post Buckley Schuh and Jernigan, has been contracted by the Mississippi Emergency Management Agency since Nov. 2007 to present. This contract is for services to provide assistance in the Public Assistance program in the aftermath of Hurricane Katrina. These services require assisting FEMA staff in meeting statutory and regulatory conditions, assistance with technical issues related to completing and implementing scopes of work on project workbooks related to the reconstruction and replacement of infrastructure damaged or destroyed by Hurricane Katrina. Further, Atkins also provided debris removal state oversight.

Atkins has provided the services defined by the scope of their contract in an excellent manner. The staff assigned to this contract has been extremely knowledgeable, professional and hard-working. The work tasked has been completed correctly in a timely manner and never failed to meet or exceed the requirements of the contract with the resources to perform the services required by our agency. MEMA has been satisfied with the quality of work and would utilize this firm for future projects of the same type.

I recommend Atkins Global without hesitation to other organizations that are in need of securing a contract of this type.

Sincerely,
Thomas M. Womack
Thomas M. "Mike" Womack
Executive Director

City of Miami
PABLO G. HERNANDEZ, P.E.
City Manager

August 9, 2009

60 Northwest 27 Avenue, 604
District Director, South Florida
PBS&J
2001 Northwest 107th Avenue
Miami, Florida 33150-2905

Re: Letter of Recommendation

To Whom It May Concern:

PBS&J is currently providing Capital Program Support Services for the City of Miami. The city entered into a partnership with PBS&J to provide technical services for work program scheduling, information solutions, construction management, cost estimating, contract management, construction scheduling, machine repair management, and other related services. Under this contract, PBS&J has served as an extension of City staff and has provided the City with additional services such as other planning, work program scheduling, and environmental reports.

The City of Miami's Capital Improvement Program (CIP) defines the planning, coordination, implementation, and monitoring efforts of all construction-related capital projects in the City and directs the financial management of all capital funds. Beginning the six-year period (2006-2011), the CIP and multi-year plan are valued at nearly \$875 million and include over 1,500 projects such as parks, theaters, recreational facilities, parks and the schools, and various other important facilities. PBS&J's professionals work with City staff in the delivery of the City's CIP projects and assist the City with its program and production activities.

On behalf of the City of Miami, I wish to express our gratitude and commend the quality of the services provided by the PBS&J team. It is always a pleasure to work with dedicated professionals. PBS&J has continued to provide high quality services—our staff is to perform all work with cost-effectiveness and value to the client as a priority. We look forward to many more years of the team's excellent services to the City.

David J. Mendez
David J. Mendez, PE
Assistant Director

DEPARTMENT OF CAPITAL IMPROVEMENTS PROGRAM
600 NW 2nd Avenue, 6th Floor, Miami, FL 33101 (305) 415-1000 / Fax: (305) 415-2100
Meeting Address: 777, NW 202nd Street, Miami, FL 33109-0100

Why Atkins?

- Qualifications
 - Project manager
 - Qualified inspections and plans reviewers
 - Unmatched expertise of damage/risk assessment
- Unmatched depth of resources
 - Multidisciplinary firm
 - Nationally recognized with excellent local resources
- Approach to scope of work
 - Detailed understanding of scope with proven solutions
- Previous similar projects
 - Comprehensive similar project experience in South Florida and North America

No learning curve...Atkins is ready to serve the Village.

Questions



Proposal for Professional Services for
**Inspections and Building Permit Plan
Reviews (All Trades) Following a
Natural or Man-Made Disaster**

Village of Key Biscayne



Atkins North America, Inc.
2001 Northwest 107th Avenue
Miami, Florida 33172-2507

Telephone: +1.305.592.7275

www.atkinsglobal.com/northamerica

June 22, 2012

Conchita Alvarez, MMC
Village Clerk
Village of Key Biscayne
88 W. McIntyre Street
Key Biscayne, Florida 33149

Subject: Proposal for Professional Services for Inspections and Building Permit Plan Reviews (All Trades) Following a Natural or Man-Made Disaster

Dear Evaluation Committee Members:

With a local presence and a team with an average of 25 years of inspection and construction experience, the Atkins team has successfully provided inspections, plans review, and architectural, engineering, transportation, environmental, and construction-related services to a wide range of public and private clients including the Village of Key Biscayne; Cities of Miami, Miami Beach, Miami Springs, Doral, Medley, and Fort Lauderdale; Miami Dade College (MDC); Broward County; Miami-Dade County Public Schools (M-DCPS), and Department of Community Affairs.

Our understanding of current building standards and codes will allow our team to operate in a cost-effective manner and perform plans review and inspection services for structures throughout the Village. Most importantly, our understanding of current local ordinances will save the Village time and money on each assigned task. We are immediately available to fill the Village's need for plan reviewers and inspectors with our qualified licensed and local staff.

With our roots in Miami, Atkins has been conducting business locally for more than 50 years, and we have comprehensive experience that includes the review of building plans and inspections immediately following a significant natural or human caused disaster that can affect the communities we live in. From 2006–2011, under our Hurricane Wilma and Katrina Remediation Services contract for the City of Fort Lauderdale, Atkins provided emergency management and engineering expertise to implement a recovery strategy and provide the required construction management and inspections, architectural, engineering, and financial recovery services necessary to repair more than 66 City-owned facilities that suffered damage after Hurricanes Katrina and Wilma made landfall in 2005. Our project team visited each damaged site to evaluate the scope of the initial damage and the allocated reimbursement cost outlined in the Federal Emergency Management Agency (FEMA) project worksheets (PW). Through our accurate damage assessment reports and cost estimates, we negotiated with the City's insurance carriers and FEMA to increase the City's remediation financial assistance. We developed PW appeals that netted a monetary increase of more than \$1 million to repair facilities.

While providing clients with the highest level of professional services to achieve quality and safety of construction in compliance with the Florida Building Code (FBC) and current building standards, we have assembled a qualified and motivated team of plans reviewers, building code inspectors, project managers, and design and emergency management consulting professionals. Our team is dedicated to knowing and adhering to the most recent and applicable building codes while completing each aspect of the project. We also offer a full complement of certified inspectors and plans reviewers.

Herminio Gonzalez, PE, CBO, will serve as project manager, building official, and code administrator. He has 32 years of code compliance experience for both public and private agencies. His 16 years of experience working for Miami-Dade County in the capacities of director of code compliance (8 years) and code compliance officer (8 years) makes him best-suited for this position. He has been serving as commissioner to the Florida Building Code Commission for the past 10 years. Mr. Gonzalez's level of knowledge will lead this project toward a timely and cost effective conclusion for the Village. He will serve as point-of-contact for the Village and will be assisted by **Mofa Hassoun, PE**, serving as quality assurance/quality control (QA/QC) manager. He will also be responsible for overall staffing and QA/QC.

As principal-in-charge and an Atkins senior vice president, I, **David Carter, CCM**, have full authority to provide the necessary resources to assist in any capacity required by the Village of Key Biscayne. Our Miami office will be the reporting office for this assignment.

Atkins has a wealth of resources and services to offer, and we look forward to the opportunity to present our credentials to the evaluation committee. Should you have any questions or need additional information, please contact me at 305.514.3272, or by email at david.carter@atkinsglobal.com. Mr. Gonzalez can be reached at 305.514.3225, or by email at herminio.gonzalez@atkinsglobal.com.

Sincerely,



David J. Carter, CCM
Principal-in-Charge/Senior Vice President

0001.029208.0612

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ATKINS

Firm Qualifications

Plan Design Enable

Firm Qualifications

Firm overview

Established and located in Miami, Florida, Atkins North America, Inc., has been providing architecture-engineering (A-E) services since 1960. Ranked 3rd among *Engineering News-Record's* top design firms in the Southeast, Atkins provides expertise in a diverse range of specialized areas including but not limited to plan reviews and inspection services; construction management; emergency management and preparedness; structural, mechanical, electrical, and fire protection engineering; municipal engineering; site/civil engineering design and permitting; site and feasibility studies; roadway design; planning; surveying; construction engineering and inspections (CEI); and cost estimating and scheduling services.

We also have a dedicated group of emergency management professionals who help clients plan for, respond to, and recover from the effects of natural or human caused disasters. We have provided services in response to a myriad of natural hazard events, including most of the major natural disasters that have affected the country since Hurricane Andrew in 1992.

Our technical staff is experienced in conducting post-disaster structural assessments for a multitude of clients. Atkins has supported FEMA with documenting building performance after a number of presidentially declared disasters to help improve standards and the overall performance of our nation's infrastructure. We have supported state and local governments with structural assessments as well as trained their staff on how to conduct inspections. We also assisted our transportation clients with accessing infrastructure after natural disasters as well as major incidents such as an overturned fuel tanker underneath a bridge. In the private sector, we have assisted clients with evaluating their structures and made recommendations on necessary repairs in order to safely reoccupy the facilities. These services have helped improve building codes and construction practices as well expedited the recovery process from follow-on events for many communities. Our services have helped revitalize the economy in impacted areas by helping to immediately assess and/or repair critical facilities for our public clients as well as vital buildings like supermarkets and distribution warehouses for our private clients.

Atkins' range capabilities and experience is critical after a disaster. Our technical staff provide civil, structural, environmental, and transportation engineering services and is complimented by our risk engineering, emergency management, and applied technology niche services. Our emergency management personnel have experience working at the local, state, and federal levels. Our GIS staff has designed databases and developed data collection forms that could be completed using a mobile device during an inspection. Atkins has the experience in and capability to securely store and display this data with a variety of web hosting capabilities, the most effective typically being a GIS application.

To best respond to the needs of the Village of Key Biscayne, our team will perform all work out of Atkins' Miami office, located at 2001 NW 107th Avenue.

Herminio Gonzalez, PE, CBO, our proposed project manager, building official, and code administrator, will lead the project from this office and will be supported by technical staff from other Atkins' offices.

In addition to the named project team, Atkins is prepared to provide additional support staff, as necessary, from any of Atkins' 23 offices located across Florida to work on specialty project tasks on a case-by-case basis.

Atkins has assembled a qualified and experienced team to lead and support the Village's contract and to facilitate effective and efficient project execution. The team will focus its efforts on safety, quality, cost and time savings, and maintainability. Our objective is to provide a quality product, on time, within budget, and without unnecessary burden on Village of Key Biscayne staff. Ultimate success and fulfillment of these objectives will focus on our strong leadership, technical expertise, administrative experience, knowledge of construction means/methods, and staff resources. We take a vested interest in ensuring that the Village receives a quality product at a fair value.

Our professionals offer the deep-rooted commitment of residents who live and work in the area and have specialized expertise in a diverse range of technical disciplines.

Using proven communications strategies, Atkins staff members seek to clearly understand all client objectives and goals to achieve success on every project. We develop strong rapport and strategic partnerships with clients to maximize efficiency, productivity, and long-term benefits.

Our proposed professionals will work together as a team to meet the Village of Key Biscayne's goals and objectives. Many of our team members have worked together successfully on similar projects, and we are very comfortable with the people, expertise, and approach our team brings to this project.

Expertise with building codes/ governmental regulations

Atkins has approximately 1,000 construction inspectors, architects, and engineers who can be called upon to review building plans and provide inspections after a disaster to make sure building structures are safe. All of our inspectors are certified in their respective areas of expertise.

Atkins has performed code compliance plan reviews and inspections services for numerous projects to issue the required building permit under FBC. We routinely inspect the construction phase of projects to confirm compliance with applicable codes and contract documents. All plan reviews (architectural, mechanical, electrical, structural, and civil) are based on all applicable national and local codes. Atkins has provided these services for projects including addition and remodeling.

Atkins has also performed final inspections for disciplines including life safety systems and has issued the certificate of occupancy upon completion.

Building inspections capabilities

Atkins team members hold active professional engineering or architectural licenses, certifications by trade disciplines from the International Code Council (ICC) and Department of Business and Professional Regulation (DBPR), and/or have completed training sessions on FBC and related educational facilities requirements. Our team can perform the following:

- Building code inspection services for the Village's facilities based on FBC and life safety codes
- Florida Accessibility Code for Building Construction (FACBC) inspection services
- Final inspections for certificate of occupancy
- Life safety inspections (NFPA 101 Life Safety Code)
- Post-occupancy elevations
- Warranty inspections
- Threshold building inspections
- Other inspections and studies, as needed

Availability

Atkins makes the commitment that all proposed key personnel will be dedicated as necessary to meet the needs of the Village. We take great pride in our history of providing quality, timely services for our clients and are confident that we have the available staff to meet your needs. The personnel identified in our organizational chart are available for immediate assignment to this contract.

Atkins has a staff of more than 200 professionals in south Florida and 2,800 nationwide. Our commitment, together with the additional support available throughout the Atkins network of offices and our selected team members on this submittal, presents the Village with a responsive project team.

Quality assurance/quality control plan (QA/QC)

At Atkins, we weave quality into the fabric of our culture by achieving a passion for client-focused quality performance and continuous quality improvement (CQI) in all that we do. Atkins' QA/QC program is an important aspect of every project we undertake, regardless of size or complexity. There is no better demonstration of our commitment to clients than our CQI process.

All major aspects of the project will be reviewed for accuracy and accountability. Our team's technical QC process uses a three-step procedure beginning with the lead technical professional (LTP) submitting the review package for QC (Step 1). In Step 2, the package is checked by the QC reviewer (Step 2); and in Step 3, the LTP incorporates/reconciles review comments and corrects any deficiencies.

Because each project is unique, project managers apply QA/QC requirements to fit specific project needs and address particular client concerns. One of the strengths of our process is its adaptability across a wide range of assignments. Our project manager is responsible for QC for each deliverable, within every project. In this way, we continue to bring high-value products and services to our clients.

QA/QC will be performed by the project manager for all the issued plans review, comments reports, inspection reports, and final completion punch list.

ATKINS

Project Team

Plan Design Enable

Project Team

Atkins has assembled a strong and experienced team that will work closely with Village of Key Biscayne staff to ensure complete project success. The Atkins team has the depth of experience, quality of management, technical expertise, state-of-the-art resources, and QA/QC procedures in place to provide the Village with the services it expects and requires to fulfill this important contract.

Atkins is capable of working on one or more segments of any project to meet the agreed upon schedule. In addition to the named project team, Atkins also has support staff available to resolve specialized technical issues that may arise. This personnel resource includes more than 2,800 employees in 70 offices located across the United States, offering a depth of knowledge on a range of topics that could prove invaluable to the timely completion of any project. We have emergency management staff who have extensive experience writing and reviewing building codes for FEMA and local governments.

Depending on the technical expertise needed, Atkins' resources will be used to provide the Village with the skills required to complete each project. Our principal team members provide a wealth of experience. Following is a summary of the experience and skills of our proposed team members. Brief resumes detailing the qualifications of our proposed team members are presented at the end of this section. Our organizational chart is on the next page.

Principal-in-Charge

David Carter, CCM

Mr. Carter is the national manager of construction consulting services, managing projects nationwide and performing construction consulting functions such as cost estimating, scheduling, document control, construction claims, and construction technology services. His 31 years of experience includes a diverse range of projects, from billion dollar programs to small municipal projects, for which he has been responsible for detailed cost estimating, scheduling, site inspection and testing, change orders, claims review and analysis, value engineering, and economic analysis. He has developed and statused project schedules, action items lists, and punch lists; performed building inspections and produced reports including cost estimates on repairs; and assisted in project management functions reviewing contractor pay applications and schedule progress.

Project Manager, Building Official, and Code Administrator

Herminio Gonzalez, PE, CBO

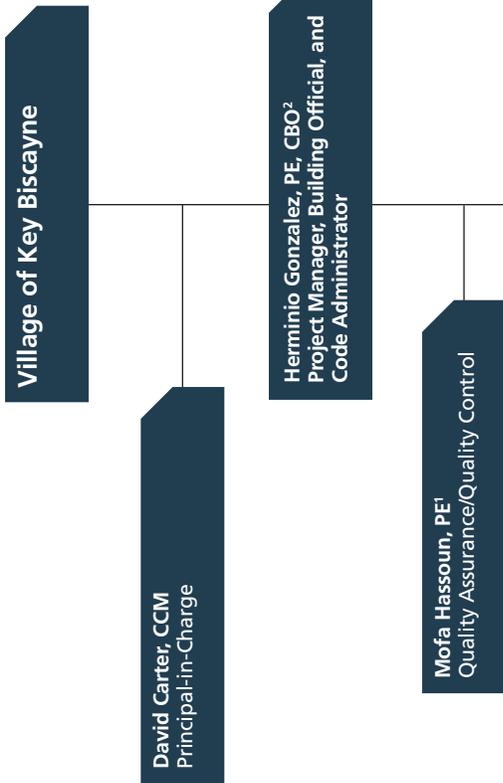
Mr. Gonzalez has 32 years of code compliance experience for both public and private agencies. His 16 years of experience working for Miami-Dade County makes him a highly beneficial team member. Most recently, Mr. Gonzalez served as director of the Miami-Dade County Building Code Compliance division after being promoted from a code compliance officer. Based on this expertise, he is familiar with all current codes and regulations the Village has to meet and has experience leading all aspects of inspection services and plan reviews. Mr. Gonzalez will provide day-to-day coordination and leadership during execution of this contract. He will assign staff, call meetings, coordinate and schedule activities, develop progress reports, monitor progress, direct the work, and coordinate transmission of information to all team members.

QA/QC, Roofing Inspector

Mofa Hassoun, PE

Mr. Hassoun has 26 years of project engineering, program and project management, construction administration, and projects code enforcement supervision and inspections experience. He has managed the preparation of technical engineering and inspection reports as related to field observations and assessments and associated estimated and escalation costs for a wide range of construction projects including civil works, community colleges, public schools, and commercial/residential buildings. Mr. Hassoun worked as a roofing inspector following Hurricanes Andrew and Wilma. During this time, he performed inspections on more than 100 projects to ensure compliance with all Florida standards. He has extensive project field and code requirements experience. Mr. Hassoun will be responsible for QA/QC and will assist with scheduling activities, assigning staff, and directing assignments.

Project Team



Code Review and Inspection Team

Shaista Javed² Architectural/Buildings	Albert Bryant² Electrical	Pelayo Calante, PE, LEED AP¹ Mechanical/Plumbing/Gas	Douglas Ramirez, PE¹ Fredy Tain, PE, SI¹ Structural/Threshold	Armando Amet III² Building	Mofa Hassoun, PE¹ Roofing Inspector
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Technical Support Team

Elvys Diaz, AIA Architectural/Buildings	Rafiq Alqasem, PE, PTOE¹ Jeremy Bourdon, PE¹ Transportation/Traffic	Harry Belton, RLA Landscape Architecture	Jose Lopez, PE, PMP¹ Permitting
Pedro Trevin, PE, LEED AP BD+C¹ Electrical	Thomas Farmer, PE, LEED AP¹ Mechanical/Plumbing	Manuel Perotin, PE, CFM Engineering and Damage Assessments	Emerson Brown³ Fire and Life Safety
John Alford, FPE, PE, LEED AP BD+C¹ Fire Protection/Plumbing	William Pitcher, PE¹ Structural	Victor Herrera, PE¹ Civil	Praveen Ommi, CEP, AVS, LEED AP Juan Alfonso Value Engineering/Cost Estimating/Scheduling

¹ PE/Architecture qualifies as an examiner and inspector under FS 468
² Holds a FS 468 license and/or ICC certification
³ Holds a FS 633 license certification

Code review and inspection team

Shaista Javed – Architectural/Buildings

Ms. Javed has 23 years of experience in code compliance inspections, building plans examinations, constructability, construction administration, and architecture for a variety of projects. Ms. Javed is well-versed in all aspects of design and construction administration including the preparation of construction documents, specifications, and drawings. She has experience as a project manager and architect, both nationally and abroad.

Albert Bryant – Electrical

Mr. Bryant serves as an electrical inspector/construction manager with Atkins' construction management division. He has 40 years of construction management experience involving code inspections and facilities assessments for a wide range of clients and facilities. He specializes in electrical, fire alarm, and life safety, and primarily performs inspections of educational facilities to verify compliance with standard codes including SREF and life safety code assessments in existing schools and new schools prior to occupancy. He is a certified ICC commercial electrical inspector.

Pelayo Calante, PE, LEED AP – Mechanical/Plumbing/Gas

Mr. Calante has 28 years of extensive experience in the fields of mechanical, nuclear, civil, and environmental engineering; quality control; and design and project management. His varied career includes work as a mechanical engineer, nuclear engineer, civil engineer, environmental engineer, and associate professor. He has extensive knowledge of FBC and other design codes including the National Fire Protection Association (NFPA); American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE); and American Society of Mechanical Engineers (ASME).

Douglas Ramirez, PE – Structural/Threshold

Mr. Ramirez has 10 years of experience in engineering that includes structural design of a variety of projects as well as field experience in performing assessments on hurricane damaged structures. He has worked on a range of projects that have been designed with structural steel, cast-in-place concrete, precast and prestressed concrete, composites, masonry, and wood. Clients have included county governments, industrial plants, Department of Defense (DOD), state agencies, and Miami-Dade County Public Schools (M-DCPS).

Fredy Tain, PE, SI – Structural/Threshold

Mr. Tain is a structural engineer with 16 years of experience that includes reinforced concrete and structural steel design. His background includes inspection of threshold buildings; analysis and design of concrete and steel building structures; preparation of design development, permit, and construction documents; construction administration of projects under construction; and CAD software knowledge. His proficiency with analysis/design software includes STAAD, RAM Steel, ETABS, SAFE, and PCA programs. Mr. Tain's relevant project experience includes design, coordination, and inspection of many projects, including institutional, residential, and commercial buildings.

Armando Amet III – Civil

Mr. Amet is a certified Florida building inspector with 27 years of experience in design, construction inspection services, and construction management. His background includes inspections and contract administration for installation and/or reconstruction of underground utilities, roadway construction, buildings, and other construction types. He has provided contract administration, field inspections, and construction management services on many projects. He served as an inspector on the City of Fort Lauderdale Hurricanes Wilma and Katrina Remediation Services contract, which involved providing design, engineering, architectural, and project management services for repairs and renovations to City buildings, facilities, and surrounding areas damaged as a result of Hurricanes Katrina and Wilma.

Technical support team

Elvys Diaz, AIA – Architectural/Buildings

Mr. Diaz has 20 years of experience in the fields of architecture and construction in a variety of governmental, commercial, institutional, health, and building complexes. He is knowledgeable in all phases of project design, budget analysis, specifications and review, construction documents, bidding, and contracts. He serves as project manager for Atkins' contract with Publix Super Markets, Inc., where we provide comprehensive architectural consulting services for renovations and expansions to stores and facilities throughout the southeast and west coast regions of Florida. Additional services involve recertification of stores with more than 40 years of service, including structural, mechanical, and electrical surveys of existing conditions at each facility; recommendations for improvements necessary for

compliance with applicable building codes; and follow-up process approval with local building departments.

Pedro Trevin, PE, LEED AP BD+C – Electrical

Mr. Trevin serves as a principal technical professional and electrical engineer with Atkins' architecture-engineering (A-E) mechanical, electrical, and plumbing (MEP) group. He has 43 years of experience providing electrical engineering services for a range of project types including municipal buildings, parks and recreational facilities, marinas, schools, and parking garages. Mr. Trevin has provided site inspections; and evaluation and preparation of reports on the findings of electrical damages by hurricanes to buildings and roadway lighting. He has frequently served as electrical project manager on assignments for state and local agencies and is knowledgeable about the diverse regulations governing design on such projects.

John Alford, FPE, PE, LEED AP BD+C – Fire Protection/Plumbing

A licensed fire protection engineer, Mr. Alford has 30 years of mechanical engineering experience including expertise in the design of plumbing and fire protection systems. He has extensive knowledge of the International Plumbing Code and NFPA codes and applies this code knowledge in project designs. His additional expertise includes domestic water design, water-based fire protection design, hydraulics calculations, and specification writing and editing.

Rafiq Alqasem, PE, PTOE – Transportation/Traffic

Mr. Alqasem is a traffic and transportation engineer with 31 years of professional experience. His background includes transportation engineering analyses, supervision and production of signal timing plans, traffic operations and traffic impacts, access and parking studies, macro and micro-simulation traffic modeling, and preparation of signal, signing and marking, and traffic control plans. Mr. Alqasem's project experience includes conducting traffic engineering studies for municipalities; reviewing development of regional impact (DRI) studies, traffic impact studies, and traffic circulation and parking issues; developing conceptual improvement alternatives; and designing signal plans, among other services.

Jeremy Bourdon, PE – Transportation/Traffic

Mr. Bourdon has 15 years of transportation engineering experience, primarily with major roadway projects including interstate highways and arterial facilities. His technical and project-specific experience includes

development of design and detailed estimates for highway-related projects, contract preparation, and supervision of construction inspection on highway projects. Through this experience, he has developed a strong working knowledge of standards and procedures related to roadway design and traffic operations.

Thomas Farmer, PE, LEED AP – Mechanical/Plumbing/Gas

Mr. Farmer has 16 years of project management, mechanical design team leadership, quality assurance, and client relations experience including direct responsibility for mechanical engineering design and production for multidisciplinary A-E projects. He has significant experience in systems ranging from 750-ton chiller/50-HP central energy plants to 10,000-ton chiller/1,600-HP plants including utility distribution piping systems for multiple building complexes.

William Pitcher, PE – Structural

Mr. Pitcher is a civil/structural engineer with 38 years of experience in the areas of design, contract administration, construction inspection, and office management for numerous civil, coastal, structural, environmental, and hydraulic engineering projects. His background includes the design of all types of marine structures as well as port development studies, cruise terminal restorations and expansions, and structural evaluations; inspection and evaluation of construction materials used in historical structures; and structural design of highway bridges, toll plazas, mass transit systems, and commercial/industrial buildings. He is responsible for the implementation and monitoring of the firm's structural quality control programs for marine and building projects.

Harry Belton, RLA – Landscape Architecture

Mr. Belton has been a practicing landscape architect for 31 years in the south Florida area. During this time, he has been responsible for providing a range of landscape architecture services on a variety of projects. This experience includes government facilities design; streetscape designs; higher education facilities; commercial development of retail space, offices, and hotels; urban renewal projects; transit projects; highway landscape; and layout and design of parks and recreational facilities, coastal and waterside parks, landfill conversions, and greenway and trail systems.

Manuel Perotin, PE, CFM – Engineering and Damage Assessments

Mr. Perotin has 15 years of emergency management experience including providing recommendations and guidance on building performance following damage caused natural or human caused disasters. His experience also includes serving on multiple FEMA Mitigation Assessment Teams (MAT) and the Repetitive Flood Claims (RFC) Grant Benefit-Cost Analysis (BCA) technical review team, and providing technical assistance with performing BCAs related to reconstruction projects. Mr. Perotin serves as the project manager for emergency management support services to Florida Department of Transportation (FDOT) District Seven. Services to District Seven included preparing or updating plans, conducting training and exercises, tracking operations during an emergency, and aiding in coordinating reimbursement through the Federal Highway Administration Emergency Response (FHWA-ER) and FEMA Public Assistance (PA) programs. Additionally, he currently manages services provided under the FEMA Hazard Mitigation Technical Assistance Program (HMTAP) contract and FEMA Mitigation Directorate's Technical Assistance and Research Contract (TARC).

Victor Herrera, PE – Civil

Mr. Herrera is a civil engineer with 8 years of experience in the design and implementation of municipal engineering projects. He has specialized professional competence in parking lots, grading, earthwork, and drainage design, as well as experience in plans processing for permit approval, water and sewer design, geotechnical investigation evaluation, and interpretation of soil borings and recommendations. Mr. Herrera's municipal experience includes working on engineering contracts with the Cities of Miami, North Miami Beach, Miami Springs, Miami Beach, and Tallahassee; and the Towns of Medley and Bay Harbor Islands. He has also served as an extension of staff for numerous clients including 3 years with both the Florida Department of Environmental Protection's (FDEP) Bureau of Beaches and Coastal Systems and the City of Tallahassee's Water and Sewer Division. For FDEP, Mr. Herrera was responsible for conducting assessments for all rigid coastal structures along the entire Florida coast. He served as part of the special response team during each hurricane season as well as the technical point of contact for emergency offices set up after a hurricane event.

Jose Lopez, PE, PMP – Permitting

Mr. Lopez has 25 years of in-depth experience in disciplines including but not limited to permitting, project management, stormwater management and flood control, water supply, and Everglades restoration. His extensive permitting experience includes coordinating with various regulatory agencies as a project manager. Permitting projects have included the SFWMD Bank Stabilization of the North Fork of the New River, SFWMD North Fork of New River Water Quality Improvements, City of Oakland Park Sleepy River Dredging Project, and various stormwater projects for water quality improvements and flood protection. Mr. Lopez has established relationships with various permitting and regulatory including Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs; FDEP; SFWMD; Broward County Environmental Protection Department; Broward County Office of Environmental Services; U.S. Army Corps of Engineers; U.S. Department of Agriculture; and FDOT, to obtain required permits.

Emerson Brown – Fire and Life Safety

Mr. Brown, a Florida Division of State-certified fire marshall, has 39 years of experience. His expertise includes both design and construction management. His experience includes the management of technical reviews and approvals of construction projects for compliance with required codes and criteria, and inspection of facilities for the construction of renovations projects; new facilities; new additions; re-roofing projects; heating, ventilation, and air-conditioning (HVAC) systems upgrades; electrical lighting and service upgrades; new stormwater drainage systems; and new major utility services upgrades for projects in excess of \$800 million in construction costs. He has served as fire and life safety inspector responsible for plan reviews and inspection services on numerous projects including those for Miami Dade College (MDC) and M-DCPS. Some of these renovation and replacement projects have involved reviewing 100 percent construction documents and performing FBC inspections.

Praveen Ommi, CEP, AVS, LEED AP – Value Engineering/Cost Estimating/Scheduling

Mr. Ommi serves as senior practice manager of Atkins' program controls group, which is responsible for preparing cost estimates and developing construction schedules. With 18 years of experience, he has expertise providing project control services for a variety of building, transportation, civil, and marine projects. Mr. Ommi's project experience includes developing cost estimates and schedules from the conceptual stages of a project through final design; participating in value engineering studies, bid analysis, site adaptation, and guaranteed maximum price (GMP) cost reviews; negotiating with contractors; reviewing pay applications and change orders for cost and time extensions; and executing addenda and supplemental agreements for various types of projects.

Juan Alfonso – Cost Estimating/Scheduling

Mr. Alfonso is a results-oriented project controls professional with 17 years of experience in scheduling, estimating, claims, and design development involving project controls and software systems including Primavera, Suretrak, Surechange, Claim Digger, Microsoft Project, Microsoft Access, Microsoft Excel, and AutoCAD. He has extensive experience developing cost estimates from the conceptual to bidding stages, bidding strategies, comparative analysis, and value engineering, as well as supporting other related functions such as review of construction managers' cost estimates and GMP, review of contract documents, and negotiations support for various municipal, governmental, public and private, and federal clients. He has been supporting these types of projects for many years and has developed a focused approach to provide accurate costs for projects that enables him to maintain a high level of accuracy in his cost estimates for clients.

Resumes

David Carter, CCM Principal-in-Charge

Education

B.S., Architectural Engineering, University of Colorado

Certifications

Certified Construction Manager (CCM), A0897

Professional Affiliations

Association for the Advancement of Cost Engineering

Construction Management Association of America

David Carter is the national manager of construction consulting services, managing projects nationwide and performing construction consulting functions such as cost estimating, scheduling, document control, construction claims, and construction technology services. His 31 years of experience has included a diverse range of projects, from billion-dollar programs to small municipal projects, for which he has been responsible for detailed cost estimating, scheduling, site inspection and testing, change orders, claims review and analysis, value engineering, and economic analysis. He has developed and statused project schedules, action items lists, and punch lists; performed building inspections and produced reports including cost estimates on repairs; and assisted in project management functions including review of contractor pay applications and schedule progress. He has extensive experience with project control software systems including Primavera and Microsoft Project.

Miami Dade College (MDC) Plans Review and Inspection Services, Miami, FL. Principal-in-charge for this MDC project consisting of performing code-related plan reviews and inspection services for various projects for all MDC campuses.

South Dade Busway Extension Construction Management and Inspection, Miami-Dade Transit, Miami, FL. The project consists of three separate construction contracts that includes the 11.5 mile extension of the busway and bike path, 13 new bus stops, 5 park and ride facilities, electronic traffic signals at 17 intersections, and reconstruction of US 1, a major north-south corridor in south Florida. Atkins' scope of work includes project controls such as scheduling, cost estimating, and document control as well as field construction management and inspection. The project is estimated to have a construction cost of \$88 million and is being funded by federal and state funds.

M-DCPS Construction Cost Estimating and Scheduling Contract, Miami, FL. Serves as principal-in-charge and provides quality assurance. Directly involved and/or supervises and provides quality assurance for all services including cost estimates at all stages of projects, life-cycle costs, and comparative analysis, and review of contractor schedules during construction, significantly reducing the claims submitted on school construction projects including design-bid-build, design-build (D-B), and construction management at-risk (CMAR) delivery methods.

Tri-Rail Golden Glades Station Expansion Construction Management Services, Pompano Beach, FL. Project manager for this South Florida Regional Transportation Authority (SFRTA) project, which involved construction of a new passenger platform between tracks ML-1 and ML-2 at the Tri-Rail Golden Glades Station. Construction management and inspection services were provided for the platform, which included an information booth, vending area, and ticket vending area as well as canopies furnished with lights, message boards, benches, and trash receptacles.

School Buildings Recertification Inspections and Disability-Related Architecture-Engineering (A-E) Services, Miami, FL. Principal-in-charge for this miscellaneous services contract with M-DCPS involving 40-year recertification inspections and A-E services. Work orders addressed Americans with Disabilities Act (ADA) deficiencies at 22 schools. General completed tasks included identifying problems with exterior building envelopes that would allow water damage or contribute to mold and mildew within the building, upgrading toilet rooms, modifying sinks and drinking fountains, providing ramps and elevators, creating accessible parking spaces, and modifying fire alarm systems to meet current accessibility standards.

Herminio Gonzalez, PE, CBO

Project Manager and Building Official

Education

M.S., Construction Management, Florida International University

B.S., Civil Engineering, University of Miami

Registrations/Licenses

Professional Engineer
0051944

Building Code Administrator (BU), 0000743

Plans Examiner (PX), 0000902

Standard Inspector
BN 0002128

Herminio Gonzalez has 32 years of code compliance experience for both public and private agencies, of which 16 years was with working for Miami-Dade County. As the former director of code compliance for Miami-Dade County, he was involved in coordinating with many agencies including state, county, and city for proper enforcement of rules and regulations of the Florida Statutes. He has a vast understanding of the services required to manage construction sites and to provide inspection services and plan reviews. As a member of Florida Building Code Commission, Mr. Gonzalez represents the code official position at statewide meetings and for proposed enhancements and changes to the building code. Mr. Gonzalez has completed formal instruction courses that include Occupational Safety and Health Administration (OSHA), administrative rules, stress management, dealing with challenging situations, electrical, excavation, fall protection, administration, forklift, ladder, materials handling, personal protective equipment, and scaffold safety. He has extensive commissioning and quality assurance experience for new construction projects from pre-design through design, construction, and early operation.

Mr. Gonzalez's project experience includes the following:

City of Miami Beach Bayshore Neighborhoods Right-of-Way Improvements and Resident Project Representative Services, Miami Beach, FL. Works closely with the City of Miami Beach to manage on-site observations of contractor's work, determine if the contract document provisions and permit conditions are being fulfilled, and protect the City against defects and deficiencies in contractor work. Works with Florida Department of Health; Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA); fire; and police to coordinate tasks.

MDC Plan Review and Inspection Services, Miami, FL. Mr. Gonzalez served as assistant project manager, building code inspector, and plan reviewer for various projects to verify compliance with all applicable building and life-safety codes. Program included new construction and renovations/remodeling as well as support of all campuses districtwide.

Miami-Dade County Building Code Compliance, Miami-Dade County, FL. Mr. Gonzalez served as director for code compliance functions countywide and the code compliance office. He supervised more than 100 employees and managed four county-wide boards, including Board of Rules and Appeals, Construction Trade Qualifying Board A and B, and the Unsafe Structure Board. While overseeing the plans review and inspection programs at various municipalities, Mr. Gonzalez investigated, prepared, and prosecuted enforcement activities pursuant to the building codes of the County. He conducted studies and investigations to recommend appropriate revisions to the building code. He provided continuing education to licensed personnel regarding FBC requirements. Mr. Gonzalez handled the registration, certification, recertification, and decertification of all construction enforcement personnel in Miami-Dade County.

Miami-Dade County Building Code Compliance, Miami-Dade County, FL. Mr. Gonzalez served as code compliance officer and enforced building codes at all municipal building departments. He provided administrative and legal support for the Board of Rules and Appeals. Mr. Gonzalez trained building officials, inspectors, and plan examiners on ethics and technical reviews. He was responsible for certification, recertification, and decertification of construction trade inspectors, plans processors, and building officials through the Board of Rules and Appeals.

Skylar Construction, Miami, FL. As chief project manager, Mr. Gonzalez was responsible for constructing various high-rise buildings in south Florida as well as overseeing the safety of 100 workers. He managed, coordinated, and awarded construction contracts, and worked with construction claims and change order procedures. His duties also included schedule and cost control management.

Mofa Hassoun, PE

Quality Assurance/Quality Control, Roofing Inspector

Education

B.S., Civil Engineering, North Dakota State University

Registrations/Licenses

Professional Engineer
Florida 61969, 2004
Missouri 2003014979, 2003

Certifications

Florida Principles & Practices (P&P) Certification, 2007

Department of Community Affairs (DCA), Hurricane Shelters Evaluation Certificate, 2005

State Requirements for Educational Facilities (SREF) and Chapter 423 of the FBC Certifications, 2004, 2006, and 2011

DOE – Uniform Building Code Inspector Certification (UBCI), 1994-2004

Professional Affiliations

American School & University

American Society of Civil Engineers

Construction Management Association of America

Florida Educational Facilities Planners' Association (FEFPA)

International Code Council (ICC), formerly known as Southern Building Code Congress International (SBCCI)

Mofa Hassoun, a civil engineer and group manager, has 26 years of experience in providing project engineering, program and project management, emergency management, construction administration, code enforcement inspections, and technical plans review. His background also involves performing condition assessments, coordinating the preparation of cost estimates, developing construction schedules, and coordinating biddability and constructability reviews. He has managed the preparation of inspection reports for field observations and associated estimated/escalation costs for a wide range of construction projects for civil works, public schools, community colleges, commercial/residential buildings, and rail systems.

City of Fort Lauderdale Hurricanes Wilma and Katrina Remediation Services, Fort Lauderdale, FL. Program manager responsible for the fulfillment of project needs, staffing requirements and coordination, financial analysis, and QA/QC of all deliverables to the City for this contract, which involved design, engineering, architectural, and project management services for repairs and renovations to City buildings, facilities, and surrounding areas that were damaged as a result of Hurricanes Katrina and Wilma. Services included field assessments, project and construction management, and projects closeout for more than 66 various facilities.

Charlotte County Public Schools (CCPS) School Facilities Engineering Analysis Services/ Aftermath of Hurricane Charley, Charlotte County, FL. Performed hurricane damage assessments and cost estimates. Supported inspection and the cost estimating teams for field condition assessment and related damages cost estimates following Hurricanes Charley and Frances. This work included FEMA and insurance company negotiations and closeouts.

Hurricane Damage Assessments, Palm Beach International Airport, Palm Beach County, FL. Supported inspection and the cost estimating teams for field condition assessment and related damages cost estimates following Hurricanes Charley and Frances. This work included FEMA and insurance company negotiations and closeouts. Mr. Hassoun served as lead inspector and QA/QC manager for all related field documentations and cost estimates.

MDC Plans Review and Inspection Services, Miami, FL. Project manager and lead plan reviewer/building code inspector responsible for overall staffing requirements and coordination for various projects to verify compliance with all applicable building and life-safety codes. This project for MDC consists of performing code-related plan reviews and inspection services for various projects for all MDC campuses. Assignments have included the reroofing project at the Kendall Campus, Building 3000, that involved miscellaneous electrical and mechanical work as well as plan reviews; renovation of the gymnasium at the North Campus, Building 400, that consisted of reviewing the Phase III documents and performing inspections based on FBC; plan reviews and code-inspection services for the SET and BURN buildings at the North Campus; Computer Center renovations at the Kendall Campus; and Americans with Disabilities Act (ADA) compliance plan review and inspection services for the street-crossing project at the North Campus.

MDC Wolfson Campus, Miami Culinary Institute, Miami, FL. Project manager responsible for project management and served as lead building code inspector and plans reviewer to verify compliance with all applicable building and life-safety codes. Atkins provided complete A-E design services for this MDC project, which achieved Leadership in Energy and Environmental Design (LEED) Gold certification. The eight-story landmark urban infill building boasts state-of-the-art cooking labs, television studio, restaurant, and café.

M-DCPS Castaldi Studies, Miami, FL. Project manager and lead field inspector responsible for the inspection of existing conditions at North Miami Senior High, Miami Senior High, and Buena Vista Elementary. Mr. Hassoun prepared Castaldi reports that included an analysis of existing building conditions based upon visual inspection and analysis of previous project reports. Reports also addressed cost evaluation utilizing the Castaldi Generalized Formula for Modernization and a conclusion based on the results of the formula.

Code Review and Inspection Team

Education

B.Arch., Architecture, NED
University of Engineering

Certifications

FDOT Advanced Maintenance
of Traffic

CTQP Asphalt Paving
Technician – Levels I and II

CTQP Earthwork Construction
Inspection – Levels I and II

CTQP Final Estimates – Level I

Troxler Nuclear Radiation
Safety Training Course

SREF, Chapter 423 of the
FBC, Florida Department of
Education

International Code Council,
Standard Building Inspector
and Plans Examiner

Professional Affiliations

Associate, American Institute
of Architects

ICC

Florida Concrete and Products
Association (FCPA)

Shaista Javed Architectural/Buildings

Shaista Javed 23 years of experience in the fields of architecture and construction administration for a variety of governmental, educational, aviation, and hospital facilities. Coupled with international experience as a project manager and architect, she is well versed in all aspects of design and construction administration including the preparation of construction documents, specifications, and drawings.

City of Fort Lauderdale Hurricanes Wilma and Katrina Remediation Services, Fort Lauderdale, FL. Associate construction manager, that provided hurricane damage assessments and project/construction management for the City's Public Assistance Program requirements to more than 66 facilities citywide. This contract with the City of Fort Lauderdale involved design, engineering, architectural, and project management services for repairs and renovations to City buildings, facilities, and surrounding areas that were damaged as a result of Hurricanes Katrina and Wilma.

MDC Plans Review and Inspection Services, Miami, FL. Associate construction manager responsible for building plans examination, building code inspections, and construction management. This contract for MDC consists of performing code-related plan reviews and inspection services for various projects for all MDC campuses. Assignments have included the reroofing project at the Kendall Campus, Building 3000, that involved miscellaneous electrical and mechanical work as well as plan reviews; renovation of the gymnasium at the North Campus, Building 400, that consisted of reviewing the Phase III documents and performing inspections based on FBC; plan reviews and code inspection services for the SET and BURN buildings at the North Campus; Computer Center renovations at the Kendall Campus; and ADA compliance plan review and inspection services for the street-crossing project at the North Campus.

M-DCPS School Buildings Recertification Inspections and Disability-Related A-E Services, Miami, FL. Construction manager responsible for construction management and inspections for this miscellaneous services contract with M-DCPS involving 40-year recertification inspections and A-E services. Work orders addressed ADA deficiencies at 22 schools. General completed tasks included identifying problems with exterior building envelopes that would allow water damage or contribute to mold and mildew within the building, upgrading toilet rooms, modifying sinks and drinking fountains, providing ramps and elevators, creating accessible parking spaces, and modifying fire alarm systems to meet current accessibility standards.

Kendall Town Center Site Development and Roadway Widening Design and Construction Phase Services, Miami, FL. Senior construction management representative, responsible for conventional construction engineering and inspection (CEI) and site development inspections including but not limited to daily work documentation; and digital pictures being taken, printed, logged, and labeled. Kendall Town Center is a \$14.6 million initial development that will be part of a multi-phase development, which includes a new 300+ bed Baptist Hospital facility, a new shopping center to include professional office space, and a residential development. Services provided to the developer, General Growth Properties, involved design of infrastructure installations ranging from water, sewer, drainage, lighting, and signalization to sidewalk, curb/gutter, pond excavation, small bridge, and roadway installations. Additionally, construction phase services were provided for the \$10 million widening of North Kendall Drive.

South Florida Water Management District (SFWMD) Roof Maintenance Inspection (RMI) Program, FL. Roof inspections for more than 45 facilities were performed for code compliance and water tightness under the RMI, which the District would apply to its roof inventory and update the District's structure maintenance standard operating procedure. Inspections report findings were used to assist the District in identifying and prioritizing repairs, as well as improving the District's roof maintenance procedures by validating the District's approach to roof structure maintenance and providing recommendations for improvement.

Albert Bryant

Electrical

Certifications

Electrical Contractor (EC)
 Construction and Fire Safety
 (various certificates)
 Master Electrician
 UBCI
 Electrical Masters Certificate
 of Competency
 Master Fire Alarm Certificate
 of Competency
 Master Burglar Alarm

Professional Affiliations

Electric Council of Florida
 International Brotherhood
 of Electrical Workers (IBEW)
 Local #349
 Construction Management
 Association of America

Albert Bryant has 40 years of experience in the building code inspection field and is responsible for code inspections and facilities assessments for a wide range of clients and facilities. He is a certified electrical inspector and specializes in electrical, fire alarm, and life safety for commercial, educational, residential, and industrial facilities. Mr. Bryant has extensive experience performing inspections of educational facilities to verify compliance of standard codes including FBC SREF and life safety in existing and new schools prior to occupancy.

MDC Plans Review and Inspection Services, Miami, FL. Electrical inspector responsible for performing building code inspections to verify compliance with standard codes including FBC, SREF, and life-safety for various projects for all MDC campuses. Assignments have included the reroofing project at the Kendall Campus, Building 3000, that involved miscellaneous electrical and mechanical work as well as plan reviews; renovation of the gymnasium at the North Campus, Building 400, that consisted of reviewing the Phase III documents and performing inspections based on FBC; plan reviews and code-inspection services for the SET and BURN buildings at the North Campus; Computer Center renovations at the Kendall Campus; and ADA compliance plan review and inspection services for the street-crossing project at the North Campus.

M-DCPS Castaldi Studies, Miami, FL. Electrical inspector responsible for inspection of existing conditions at North Miami Senior High, Miami Senior High, and Buena Vista Elementary.

M-DCPS School Buildings Recertification Inspections and Disability-Related A-E Services, Miami, FL. Electrical inspector for this miscellaneous services contract with M-DCPS involving 40-year recertification inspections and A-E services. Work orders addressed ADA deficiencies at 22 schools. General completed tasks included identifying problems with exterior building envelopes that would allow water damage or contribute to mold and mildew within the building, upgrading toilet rooms, modifying sinks and drinking fountains, providing ramps and elevators, creating accessible parking spaces, and modifying fire alarm systems to meet current accessibility standards.

M-DCPS Construction Cost Estimating and Scheduling Contract, Miami, FL. Electrical inspector under this contract that includes providing cost estimates at all stages of projects, life-cycle costs, and comparative analysis, and review of contractor schedules during construction, significantly reducing claims submitted on school construction projects.

M-DCPS Five-Year Educational Plant Survey Consultant, Miami, FL. Electrical inspector for this project that involved providing 5-year educational plant survey assessments of more than 50 school facilities in Miami-Dade County.

City of Miami, FL. Prior to joining Atkins, Mr. Bryant worked as a certified electrical inspector for the City of Miami performing inspections on electrical installations for residential, commercial, and industrial facilities. Also conducted fire-safety inspections to identify hazardous wiring in homes and new or existing businesses within the city limits.

Pelayo Calante, PE, LEED AP

Mechanical/Plumbing/Gas

Education

M.S., Nuclear Engineering,
Moscow Institute of Power
Engineering

B.S., Nuclear Engineering,
Moscow Institute of Power
Engineering

Registrations/Licenses

Professional Engineer
(Mechanical):
Florida, 53829, 1999

Certifications

Leadership in Energy and
Environmental Design
Accredited Professional (LEED
AP), U.S. Green Building
Council (USGBC), 2008

National Council of Examiners
for Engineering and Surveying
(NCEES), 47395, 2011

A group manager for Atkins' mechanical, fire protection, electrical, and plumbing engineering group, Pelayo Calante has 28 years of extensive experience in the fields of mechanical, nuclear, civil, and environmental engineering; quality control; and design and project management. His varied career includes work as a mechanical engineer, nuclear engineer, civil engineer, environmental engineer, and associate professor, where he taught courses in nuclear power plants and the construction and assembly of nuclear power plants. He has extensive knowledge of FBC and other design codes including NFPA; ASHRAE; and ASME.

MDC Plans Review and Inspection Services, Miami, FL. Mechanical engineer responsible for performing code-related plan reviews and inspection services for various projects for all MDC campuses. Assignments have included the reroofing project at the Kendall Campus, Building 3000, that involved miscellaneous electrical and mechanical work as well as plan reviews; renovation of the gymnasium at the North Campus, Building 400, that consisted of reviewing the Phase III documents and performing inspections based on FBC; plan reviews and code inspection services for the SET and BURN buildings at the North Campus; Computer Center renovations at the Kendall Campus; and ADA compliance plan review and inspection services for the street-crossing project at the North Campus.

MDC Wolfson Campus Culinary Institute, Miami, FL. Project coordinator for the MEP and fire alarm/fire protection disciplines for a new eight-story, 35,000-square-foot building. This urban infill building incorporates offices and classrooms, teaching labs, TV production studio, and a commercial restaurant. Work performed included serving the plumbing and fire protection engineer-of-record. All systems were coordinated to pursue LEED-New Construction (NC) Gold certification.

MDC Wolfson Campus New World School of the Arts, Building 5000 Lobby Remodeling and Mechanical Design, Miami, FL. MEP engineer responsible for project coordination of the MEP and fire alarm/fire protection disciplines. Scope of work included demolition of existing lobby/entry space and remodeling and expansion of new entry and lobby space. Project entailed modifications to existing MEP infrastructure as well as existing smoke evacuation systems. This project represents Mr. Calante's experience prior to joining Atkins.

MDC Wolfson Campus New World School of the Arts, Building 5000 Lobby Remodeling and Mechanical Design, Miami, FL. MEP engineer responsible for project coordination of the MEP and fire alarm/fire protection disciplines. Scope of work included demolition of existing lobby/entry space and remodeling and expansion of new entry and lobby space. Project entailed the modifications to the existing MEP infrastructure as well as the existing smoke evacuation systems.

PGI Group International, Miami, FL. Technical director/mechanical engineer responsible for project management; quality and economic control; and the design of mechanical, plumbing, and fire protection engineering for residential and commercial facilities including high-rise buildings, restaurants, and hotels. This project represents Mr. Calante's experience prior to joining Atkins.

D-B of Tactical Equipment Maintenance Facilities (TEMF) Complex, Fort Benning, GA. Mechanical engineer responsible for providing ongoing mechanical design support in accordance with ASHRAE Standard 90.1, USGBC LEED version 2.2, and Energy Policy Act (EPA) 2005, including engineering/design reviews and performance of heating/cooling load calculations. Atkins' services included architectural; fire protection; interior design; landscape architecture; mechanical, electrical, and plumbing (MEP); security (AT/FP); site/civil; and sustainable design (LEED Silver). All designs were created using Bentley BIM.

Douglas Ramirez, PE

Structural/Threshold

Education

M.S., Structural Engineering,
Florida International University

B.S., Civil Engineering, Florida
International University

Registrations/Licenses

Professional Engineer
Florida, 70993, 2010

Professional Affiliations

American Society of Civil
Engineers

Douglas Ramirez has 10 years of experience in engineering including the structural design of a variety of projects as well as field experience in performing assessments on hurricane-damaged structures. He has worked on a range of projects that have been designed with structural steel, cast-in-place concrete, precast and pre-stressed concrete, composites, masonry, and wood. Clients have included county governments, school districts, state agencies, industrial plants, and Department of Defense (DoD). He assisted with the renovation of the Land's End Resort at Captiva Island, Florida, after the resort was heavily damaged during a hurricane. As a structural engineer, Mr. Ramirez works with all disciplines to develop the optimum structural design that meets the owner's criteria. Once the structural systems are defined, he leads the effort to develop all structural calculations, working drawings, and specifications; and coordinates with other disciplines. Other responsibilities include performing site visits and writing reports outlining solutions to structural problems and assessing structural conditions at various sites.

MDC Plans Review and Inspection Services, Miami, FL. Structural engineer responsible for performing code-related plan reviews and inspection services that focused on structural components for various projects for all MDC campuses. Assignments have included the reroofing project at the Kendall Campus, Building 3000, that involved miscellaneous electrical and mechanical work as well as plan reviews; renovation of the gymnasium at the North Campus, Building 400, that consisted of reviewing the Phase III documents and performing inspections based on FBC; plan reviews and code-inspection services for the SET and BURN buildings at the North Campus; Computer Center renovations at the Kendall Campus; and ADA compliance plan review and inspection services for the street-crossing project at the North Campus.

City of Fort Lauderdale Hurricanes Wilma and Katrina Remediation Services, Fort Lauderdale, FL. Structural engineer who performed structural inspections to assist the City with determining solutions for buildings affected by the hurricanes. This contract with the City of Fort Lauderdale involved design, engineering, architectural, and project management services for repairs and renovations to City buildings, facilities, and surrounding areas that were damaged as a result of Hurricanes Katrina and Wilma. Comprehensive services provided to the City included architectural, structural engineering, civil engineering, electrical engineering, and landscape architectural turnkey design and review services along with initial assessments of damages, preparation of preliminary and final plans, and assistance with bidding and project management. Among the facilities damaged by the hurricanes were the City hall, parks, Floyd Hull Stadium, Las Olas Marina Stations, fire stations, police stations, pump stations, water and water treatment plants, Las Olas Riverwalk, Southside School, parking garages and parking lots, swimming hall of fame, community neighborhood facilities, light poles and signage, street lights and poles, and citywide landscaping.

MDC Wolfson Campus, Miami Culinary Institute, Miami, FL. Structural engineer who performed structural work for the new, eight-story landmark urban infill building that boasts state-of-the-art cooking labs, television studio, restaurant, and café. Structural design included pile-supported foundations, shearwalls, concrete floors, and roof. Mr. Ramirez also performed construction administration and additional services related to the construction of the facility, which achieved LEED Gold certification.

M-DCPS South Dade Middle School Design-Build (D-B) Design and Construction Phase Services, Miami, FL. Structural engineer who performed structural threshold inspections for this D-B project for M-DCPS, which involved design criteria professional services for a new 1,662-student-station middle school (formerly known as State School SS-1) located on a 20-acre site in the southwest agricultural region of the county.

Fredy Tain, PE, SI

Structural/Threshold

Education

B.S., Structural Engineering,
Jose Echevarria Higher
Polytechnic University

Registrations/Licenses

Professional Engineer
Florida 61011, 2004

Certifications

Special Inspector, Threshold
Buildings, Florida (7015768),
2006

Professional Affiliations

Association for the
Advancement of Cost
Engineering

Construction Management
Association of America

Fredy Tain is a structural engineer with 16 years of experience with reinforced concrete and structural steel design. His background includes inspection of threshold buildings; analysis and design of concrete and steel building structures; preparation of design development, permit, and construction documents; construction administration of projects under construction; and CAD software. His proficiency with analysis/design software includes STAAD, RAM Steel, ETABS, SAFE, PCA programs, and others. Mr. Tain's relevant project experience includes design, coordination, and inspection of numerous projects, including institutional, residential, and commercial buildings.

M-DCPS Life Safety and ADA Upgrades, Miami, FL. Structural engineer responsible for threshold inspection. Atkins provided complete A-E design services including programming, design, construction documents, bidding, and construction administration to address fire safety deficiencies identified by the local fire marshal at 17 schools.

City of Fort Lauderdale Hurricanes Wilma and Katrina Remediation Services, Fort Lauderdale, FL. Structural engineer as part of the Atkins team for this contract with the City of Fort Lauderdale, which involved design, engineering, architectural, and project management services for repairs and renovations to City buildings, facilities, and surrounding areas that were damaged as a result of Hurricanes Katrina and Wilma. Comprehensive services provided to the City included architectural, structural engineering, civil engineering, electrical engineering, and landscape architectural turnkey design and review services along with initial assessments of damages, preparation of preliminary and final plans, and assistance with bidding and project management. Among the facilities damaged by the hurricanes were the City hall, parks, Floyd Hull Stadium, Las Olas Marina Stations, fire stations, police stations, pump stations, water and water treatment plants, Las Olas Riverwalk, Southside School, parking garages and parking lots, swimming hall of fame, community neighborhood facilities, light poles and signage, street lights and poles, and citywide landscaping.

M-DCPS Materials and Facilities Operation Center A-E Services, Miami, FL. Structural engineer who provided assistance with the structural design elements of this M-DCPS project, which involved A-E design services for the renovation of a 320,000-square-foot warehouse and administration office for materials distribution and repair shop facilities. Services provided included site work for the 400-space maintenance vehicle parking and 600-space employee parking areas. The project also included a fuel facility on a 22-acre site with storage for 12,000 gallons of gasoline and diesel fuel.

S.D. Spady Elementary School, Palm Beach County, FL. As structural engineer, responsible for structural design and inspections. This public school in Palm Beach County consists of seven buildings: three rectangular one-story building for classrooms; one irregular one-story building with multiple roof elevations for labs, dining, auditorium, kitchen etc.; one two-story building for classrooms; a P.E. shelter with office spaces; and an addition to the existing administration building.

St. Ann High School, West Palm Beach, FL. Structural engineer responsible for structural design and inspections for facilities, parking garage, and gymnasium at this private school.

Armando Amet III

Building

Education

B.S., Architectural Technology,
Florida International University

B.S., Construction
Management, Florida
International University

Certifications

OSHA, 1910.120; Hazardous
Waste Operations and
Emergency Response

ICC Building Inspector

Florida Department of
Business and Professional
Regulation (DBPR) Building
Inspector

FBC (formerly Uniform
Building Code) State School
Inspector

Florida Department of
Transportation (FDOT) Work
Zone Inspector

FDOT Earthwork Inspector I

FDOT Asphalt Inspector I

PERA Pollution and Sediment
Control Inspector

Troxler Nuclear Gauge
Technician

CSXT Roadway Worker Safety

Professional Association of
Diving Instructors (PADI) Open
Water Certified Diver

Florida Concrete and Products
Association (FCPA) Structural
Masonry Inspector

Professional Affiliations

ICC

FCPA

Armando Amet, a Florida-certified building inspector, is a construction management representative with 27 years of experience in design, construction inspection services, and construction management. His project experience has included contract administration services for reconstruction of storm-drainage systems and relocation/installation of water and sewer lines, field inspection and contract administration services for a pump station improvement program and traffic circulation improvements, and construction management services for installation of systemwide signage for train stations.

City of Fort Lauderdale Hurricanes Wilma and Katrina Remediation Services, Fort Lauderdale, FL. Inspector for this contract with the City of Fort Lauderdale, which involved design, engineering, architectural, and project management services for repairs and renovations to City buildings, facilities, and surrounding areas that were damaged as a result of Hurricanes Katrina and Wilma. Comprehensive services provided to the City included architectural, structural engineering, civil engineering, electrical engineering, and landscape architectural turnkey design and review services along with initial assessments of damages, preparation of preliminary and final plans, and assistance with bidding and project management. Among the facilities damaged by the hurricanes were the City hall, parks, Floyd Hull Stadium, Las Olas Marina Stations, fire stations, police stations, pump stations, water and water treatment plants, Las Olas Riverwalk, Southside School, parking garages and parking lots, swimming hall of fame, community neighborhood facilities, light poles and signage, street lights and poles, and citywide landscaping.

Hurricane Shelter Assessment, Florida Department of Community Affairs (FL-DCA), Collier, Palm Beach, Martin, and St. Lucie Counties, FL. Construction inspector responsible for providing inspection services of multiple facilities (fire stations, schools, government buildings, libraries, and recreation centers) used as hurricane shelters for the above-mentioned counties. Duties included review of records drawings, visits to facilities, interviews with facilities maintenance directors, photo documentation of various components of the facilities, and preparation/submittal of the assessment report to the Tallahassee Department of Community Affairs, Red Cross, and FEMA.

MDC Plans Review and Inspection Services, Miami, FL. Inspector responsible for performing code-related plan reviews and inspection services for various projects for all MDC campuses. Assignments have included the reroofing project at the Kendall Campus, Building 3000, that involved miscellaneous electrical and mechanical work as well as plan reviews; renovation of the gymnasium at the North Campus, Building 400, that consisted of reviewing the Phase III documents and performing inspections based on FBC; plan reviews and code inspection services for the SET and BURN buildings at the North Campus; and ADA compliance plan review and inspection services for the street-crossing project at the North Campus.

MDC Wolfson Campus, Miami Culinary Institute, Miami, FL. Inspector as part of the Atkins team that provided complete A-E design services for this MDC project, which achieved LEED Gold certification. The eight-story landmark urban infill building boasts state-of-the-art cooking labs, television studio, restaurant, and café.

Construction Management Services for West Side Sanitary Booster Pump Station at Miami International Airport (MIA), Miami, FL. Served as construction manager and also provided special inspections. This project for the Miami-Dade Aviation Department consisted of construction of the sewage booster pump station and 2,000 linear feet of 16-inch ductile iron pipe force main. Duties involve daily visitations and documentation of multiple tasks, and assisting MIA's Maintenance Department in locating missing valves and sanitary sewer manholes to prepare for the sewage flow redirection task.

SR 94/Kendall Drive Roadway Widening Design and Construction Phase Services, Miami, FL. Inspector responsible for performing maintenance of traffic inspections, overseeing utility placements and relocations, and verifying that roadway reconstruction complied with construction plans, specifications, and regulatory agency requirements. North Kendall Drive is being widened by General Growth Properties, and Atkins provided full CEI services. The road widening project included more than 1 mile of urban arterial widening from four to six lanes.

Technical Support Team

Education

B.Arch., Design, Universidad
Autonoma de Santo Domingo

Registrations/Licenses

Registered Architect
Florida, 94722, 2009

Elvys Diaz, AIA Architectural/Buildings

Elvys Diaz has 20 years of experience in the fields of architecture and construction in a variety of governmental, commercial, institutional, health, and building complexes. He is knowledgeable in all phases of project design, budget analysis, specifications and review, construction documents, bidding, and contracts. He serves as project manager for Atkins' contract with Publix Super Markets, Inc., where we provide comprehensive architectural consulting services for renovations and expansions to stores and facilities throughout the southeast and west coast regions of Florida.

Publix A-E Services, Statewide, FL. This contract with Publix Super Markets consists of architectural, mechanical, electrical, structural, and civil engineering services including design, construction documentation, and shop drawing reviews for the renovations and expansion of existing Publix stores. Additional services include recertification of stores with more than 40 years of service involving structural, mechanical, and electrical surveys of the existing conditions of each facility; recommendations for improvements necessary for compliance with applicable building code; and follow-up process approval with local building departments. Atkins also conduct interiors and site plan surveys for compliance with ADA and provide written and graphical recommendations for necessary improvements.

Robert King High Park Recreation Facility A-E Services, Miami, FL. This project for the City of Miami involved providing complete professional A-E services for the Robert King High Park Recreation Facility, a new recreation center. Project services included evaluating and rearranging site, playfield, and parking lot lighting; landscaping; evaluating new location for recreation building and parking lot; developing an accessibility report for all existing facilities that were to remain; and upgrading the site irrigation system.

Education

B.S., Electrical Engineering,
University of Miami

Registrations/Licenses

Professional Engineer
Florida 15309, 1976

Certifications

Certified UBCI, 2001–2008

National Council of Examiners
for Engineering and Surveying
(NCEES), #19536

LEED AP Building Design and
Construction (BD+C), USGBC

Pedro Trevin, PE, LEED AP BD+C Electrical

Mr. Trevin serves as a principal technical professional and electrical engineer with Atkins' architecture-engineering (A-E) mechanical, electrical, and plumbing (MEP) group. He has 43 years of experience providing electrical engineering services for a range of project types including municipal buildings, parks and recreational facilities, marinas, schools, and parking garages. Mr. Trevin has provided site inspections; and evaluation and preparation of reports on the findings of electrical damages by hurricanes to buildings and roadway lighting. He has frequently served as electrical project manager on assignments for state and local agencies and is knowledgeable about the diverse regulations governing design on such projects.

MDC Plans Review and Inspection Services, Miami, FL. Electrical engineer responsible for electrical technical support for various projects for all MDC campuses. Assignments have included the reroofing project at the Kendall Campus, Building 3000, that involved miscellaneous electrical and mechanical work as well as plan reviews; renovation of the gymnasium at the North Campus, Building 400, that consisted of reviewing the Phase III documents and performing inspections based on FBC; and plan reviews and code-inspection services for the SET and BURN buildings at the North Campus.

M-DCPS Life Safety and ADA Upgrades, Miami, FL. Electrical engineer as part of the Atkins team that provided complete A-E design services including programming, design, construction documents, bidding, and construction administration to address fire safety deficiencies identified by the local fire marshal at 17 schools. Under NFPA's safety-to-life project, project elements included upgrades to egress elements (stairs, corridors, doors, and windows); renovations to and replacements of kitchen exhaust/fire suppression hoods, home economics lab-exhaust hoods, and fire-alarm-system components; and the addition of sprinkler systems for seven schools.

John Alford, FPE, PE, LEED AP BD+C

Fire Protection

Education

B.S., Mechanical Engineering Technology, University of Tennessee

Registrations/Licenses

Professional Engineer
Florida, 46515, 1993

Fire Protection Engineer
Florida, 46515, 2000

Certifications

Plumbing Design, American Society of Plumbing Engineers (ASPE), 1983

LEED AP BD+C, USGBC, 2007

A licensed fire protection engineer, John Alford has 30 years of mechanical engineering experience including expertise in the design of plumbing and fire protection systems. He has extensive knowledge of the International Plumbing Code and NFPA codes and applies this code knowledge in project designs. His additional expertise includes domestic water design, water-based fire protection design, hydraulics calculations, and specification writing and editing.

Building 313 Sprinkler Renovation Engineering Services, Patrick Air Force Base (AFB), FL. Mr. Alford was responsible for design and specifications to renovate the existing automatic sprinkler system. This project involved converting an existing deluge sprinkler system to a standard wet pipe system for an existing high-bay storage and maintenance building. Hydraulic calculations were performed for eight different sprinkler zones.

Design Services in Support of Design-Build (D-B) Construction of Student Dormitory, Goodfellow AFB, TX. Plumbing/fire protection engineer responsible for plumbing and fire protection design, as well as hydraulic calculations and specifications, for a new 200-bed replacement dormitory. The fire protection design for this three-story residential housing facility was based on NFPA 13, 14, 24, and 30.

Construct Addition and Repair of Child Development Center (CDC), Buildings 790 and 1265, U.S. Army Corps of Engineers (USACE) Huntsville District, Holloman AFB, NM. Plumbing/fire protection engineer responsible for the design of the plumbing, fire detection and alarm, and sprinkler suppression systems, including calculations and specifications. The project renovates the existing facility and adds an expansion that will bring the building into conformance with Unified Facilities Criteria (UFC).

Education

M.E., Transportation Engineering, University of Florida

M.E., Construction Engineering and Management, University of Florida

B.S., Civil Engineering, University of Leeds

Registrations/Licenses

Professional Engineer
Florida 40853, 1989

Certifications

Professional Traffic Operations Engineer (PTOE)

Rafiq Alqasem, PE, PTOE

Transportation/Traffic

Rafiq Alqasem is a traffic and transportation engineer with 31 years of professional experience. His background includes transportation engineering analyses, supervision and production of signal timing plans, traffic operations and traffic impacts, access and parking studies, macro- and micro-simulation traffic modeling, and preparation of signal, signing and marking, and traffic control plans. Mr. Alqasem's transportation planning experience includes geometric, functional, and freeway planning, as well as multi-level interchange alternatives.

MDC Plans Review and Inspection Services, Miami, FL. Transportation/traffic engineer supporting the Atkins team performing code-related plan reviews and inspection services for various projects for all MDC campuses.

General Traffic Engineering Consultant, City of Miami Beach, FL. Project manager responsible for conducting and reviewing traffic impact studies, development of regional impacts (DRI), traffic circulation, and parking issues; developing conceptual improvement alternatives; and designing signal plans.

General Traffic Engineering Consultant, City of Fort Lauderdale, FL. Project manager responsible for conducting various traffic engineering studies; reviewing DRI studies, traffic impact studies, traffic circulation, and parking issues; developing conceptual improvement alternatives; and designing signal plans.

Downtown Redevelopment and Revitalization Traffic Study/Citywide Traffic Calming Study, Oakland Park, FL. As part of Atkins' project management services contract for the City of Oakland Park, Atkins provided traffic engineering services to the City. This effort also guided the development and refinement of future development densities in the land use plan.

Jeremy Bourdon, PE

Transportation/Traffic

Education

B.S., Civil Engineering,
Michigan State University

Registrations/Licenses

Professional Engineer
Florida 59933, 2003

Certifications

Specification Package
Preparation (FDOT Certified)

Advanced Maintenance of
Traffic (FDOT Certified)

Jeremy Bourdon has 15 years of transportation engineering experience, primarily with major roadway projects including interstate highways and arterial facilities. His technical and project-specific experience includes development of the design and detailed estimates for highway-related projects, contract preparation, and supervision of construction inspection on highway projects. Through this experience, he has developed a strong working knowledge of standards and procedures related to roadway design and traffic operations.

FDOT District Six SR 860/Miami Gardens Drive, Miami-Dade County, FL. Mr. Bourdon serves as the engineer-of-record for traffic control for this ride only project. The project consists of milling and resurfacing, minor widening, intersection modification, and drainage improvements to address corridor deficiencies.

Coconut Creek Educational Corridor, Broward County, FL. Project manager and engineer-of-record for this 3R project, which included milling and resurfacing, divided median construction, and pedestrian and bicycle enhancements. The project is local agency program (LAP) funded and will be constructed in multiple phases. The roadway is under the jurisdiction of Broward County, involves FDOT oversight, and is being designed on behalf of the City of Coconut Creek.

FDOT District Four SR 9/I-95 (South of Indrio Road Interchange to the St. Lucie/Indian River County Line), St. Lucie County, FL. Roadway engineer for this fast-tracked D-B criteria package production project. Project elements include roadway design, typical section, pavement design, cross sections, drainage design, traffic control, signing and pavement marking, and request for proposal (RFP) language development. The scope of services includes widening mainline I-95 from 4 to 6 lanes, and modifications to the northbound exit ramp.

Education

B.S., Mechanical Engineering,
University of Florida

Registrations/Licenses

Professional Engineer
Florida, 58890, 2002

Certifications

LEED AP, USGBC, 10104994,
2007

Thomas Farmer, PE, LEED AP

Mechanical/Plumbing/Gas

Thomas Farmer has 16 years of project management, mechanical design team lead, quality assurance, and client relations experience including direct responsibility for mechanical engineering design and production for multidisciplinary A-E projects. He has significant experience in systems ranging from 750-ton chiller/50-HP central energy plants to 10,000-ton chiller/1,600-HP plants including utility distribution piping systems for multiple building complexes. Mr. Farmer has provided mechanical designs for 20+ educational facility projects ranging from 2,500–360,000 square feet, with construction costs ranging from \$1 million–\$75 million.

Government Office Complex Architectural Services, Hays County, TX. Mr. Farmer served as lead mechanical engineer/engineer-of-record. Atkins provided full architectural services for a new seven-story, ± 80,000-gross-square-foot government office complex to house numerous departments of Hays County. The project's initial scope of work was to complete a needs assessment/programming document to address current and future space needs (through 2030) for various County departments. Atkins coordinated and compiled a comprehensive programming document to achieve the following objectives: provide quality work spaces for County employees and the public, determine equitable space for County departments based on specific standards, strategically locate departments to enhance communications, incorporate technology to improve space efficiency, and optimize the use of government-owned property.

Joint Port Intelligence and Operations Center (JPIOC), Canaveral Port Authority, Cape Canaveral, FL. Mr. Farmer was responsible for mechanical engineering design. Atkins provided services at the second busiest cruise port in the world as a result of its selection by the Canaveral Port Authority to provide A-E design services for a new JPIOC. The JPIOC will include a new fire station and public safety facility consisting of an emergency operations center for joint authority coordination and general port security monitoring functions. The 24-hour emergency operations center will be both hurricane- and flood-resistant and will incorporate LEED principles in its design.

William Pitcher, PE

Structural

Education

M.S., Structural Engineering,
University of Connecticut

B.S., Civil Engineering,
University of Connecticut

Registrations/Licenses

Professional Engineer
Florida 31852, 1982

William Pitcher is a civil/structural engineer with 38 years of experience in design, contract administration, construction inspection, and office management for numerous civil, coastal, structural, environmental, and hydraulic engineering projects. His background includes the design of all types of marine structures as well as port development studies, cruise terminal restorations and expansions, and structural evaluations; inspection and evaluation of construction materials used in historical structures; and structural design of highway bridges, toll plazas, mass transit systems, and commercial/industrial buildings. He is responsible for the implementation and monitoring of the firm's structural quality control programs for marine and building projects.

City of Fort Lauderdale Hurricanes Wilma and Katrina Remediation Services, Fort Lauderdale, FL. Structural engineer for this contract with the City of Fort Lauderdale that involved design, engineering, architectural, and project management services for repairs and renovations to City buildings, facilities, and surrounding areas that were damaged as a result of Hurricanes Katrina and Wilma. Comprehensive services provided to the City included architectural, structural engineering, civil engineering, electrical engineering, and landscape architectural turnkey design and review services along with initial assessments of damages, preparation of preliminary and final plans, and assistance with bidding and project management.

Miami Warehouse Hurricane Wilma Roof Replacement Design and Construction Services, Miami, FL. Project manager for this project for Marine Spill Response Corporation that involved architectural, engineering, and construction consulting services for roof replacement of MSRC's southern region facility, which had sustained significant damage due to Hurricane Wilma.

Education

B.L.A., Landscape
Architecture, Louisiana State
University

Registrations/Licenses

Registered Landscape
Architect
Florida LA0000900, 1983

Harry Belton, RLA

Landscape Architecture

Harry Belton has 31 years of experience providing landscape architecture services for several downtown renewal/renaissance projects and streetscape improvements; streetscaping of major FDOT corridors; design of multimodal systems (greenways, bike trails, and transit facilities); government facilities design; commercial, retail, office, hotel, and large-scale residential developments; layout and design of parks and recreational facilities, coastal/waterside parks, and landfill-to-park conversions; preparation of urban, design-guidelines packages; and design of pedestrian systems.

MDC Plans Review and Inspection Services, Miami, FL. Landscape architect for this contract that consists of performing code-related plan reviews and inspection services for various projects for all MDC campuses.

NE 4th Street Pedestrian Promenade, Miami, FL. As lead landscape architect, Mr. Belton worked with MDC and the City of Miami to reconfigure a city street to double the amount of pedestrian space for students at the downtown Wolfson Campus. Also included was the addition of street trees, upgraded lighting, and street furnishings. Improved circulation also facilitated improved use of the Metromover station located in the project area.

Ann's Beach Park, Islamorada, FL. Mr. Belton was involved with improvements to an access park at an existing beach for the Village of Islamorada. A major challenge was to provide much-needed parking in an extremely environmentally sensitive site impacted by dynamic natural forces.

Judge Arthur I. Snyder Tennis Center, North Miami Beach, FL. Mr. Belton served as senior landscape architect for this project, which involved providing full master planning services, architectural design for the clubhouse, landscape architecture, civil engineering, and ecological science services for site development.

Manuel Perotin, PE, CFM

Engineering and Damage Assessments

Education

M.S., Engineering Management, University of Missouri-Rolla

B.S., Civil Engineering, United States Military Academy

Registrations/Licenses

Professional Engineer
Florida 62730, 2005
Missouri 2003002966, 2003

Certifications

Certified Floodplain Manager
FEMA Certified Benefit-Cost Analysis Lead Trainer

Professional Affiliations

American Society of Civil Engineers
Society of American Military Engineers

Software

FEMA's BCA Software

Education

B.S., Civil Engineering, Florida State University

Registrations/Licenses

Professional Engineer
Florida 71164, 2010

Manny Perotin has 15 years of emergency management experience including providing recommendations and guidance on building performance following damage from natural or human caused disasters. His experience also includes serving on multiple FEMA Mitigation Assessment Teams (MAT) and the Repetitive Flood Claims (RFC) Grant Benefit-Cost Analysis (BCA) technical review team, and providing technical assistance with performing BCAs related to reconstruction projects. Mr. Perotin currently manages services provided under the FEMA Hazard Mitigation Technical Assistance Program (HMTAP) contract and FEMA Mitigation Directorate's Technical Assistance and Research Contract (TARC).

FDOT District Four Districtwide Hurricane Preparedness Assistance. Mr. Perotin was the project manager for this project, which involved providing support services to foster hurricane preparedness for the 2006 hurricane season, including assisting with coordination efforts with local and county governments; developing training materials; providing orientation on the FHWA-ER Program; and updating the District's Comprehensive Emergency Management Plan (CEMP). Specific tasks included preparing scopes of services, obtaining quotes for hurricane emergency contracts, identifying debris staging areas, and coordinating with cities and counties to draft memorandums of understanding on debris removal and respective roles to be assigned throughout the district. Additionally, training courses in sign repair inspection were developed for debris monitors as well as for construction engineering and inspection staff.

FDOT District Seven General Engineering Consulting Services, Emergency

Management Support. Mr. Perotin managed the project, which included supporting District Seven with all four phases of emergency management. Tasks included updating policies, procedures, and responsibilities defined in the District's CEMP; conducting exercises; training FDOT personnel on emergency management and the FHWA-ER program; coordinating with 5 counties and more than 35 municipalities regarding debris removal; and supporting the District with monitoring operations during an emergency.

Victor Herrera, PE

Civil

Victor Herrera is a civil engineer with 8 years of experience in the design and implementation of municipal engineering projects. He has specialized professional competence in parking lots, grading, earthwork, and drainage design, as well as experience in plans processing for permit approval, water and sewer design, geotechnical investigation evaluation, and interpretation of soil borings and recommendations. Mr. Herrera has served as an extension of staff for numerous clients including 3 years with both FDEP's Bureau of Beaches and Coastal Systems and the City of Tallahassee's Water and Sewer Division. For FDEP, Mr. Herrera was responsible for conducting assessments for all rigid coastal structures along the entire Florida coast. He served as a member of the special response team during each hurricane season as well as the technical point of contact for emergency offices set up after a hurricane event.

Plan Review, City of Miami Springs, Miami Springs, FL. Mr. Herrera is responsible for the review of all plans submitted for development to the City of Miami Springs including reviewing architectural and civil engineering plans to verify compliance with local and state requirements.

Snyder Tennis Center, City of North Miami Beach, Miami Beach, FL. Mr. Herrera serves as the engineer-of-record for a 10-acre park improvement project. The project consists of parking lot design, stormwater management, and water/sewer design.

South Pointe Pier Park Design and Construction Administration Services, Miami Beach, FL. Mr. Herrera serves as deputy project manager for this project for the City of Miami Beach that involves design of the new South Pointe Pier Park. Mr. Herrera is responsible for management of the design team and subconsultants and client coordination as well as overseeing the permitting efforts with multiple agencies. The project is currently under design, and construction is anticipated to start in fall 2012.

Jose Lopez, PE, PMP

Permitting

Education

M.B.A., Environmental Systems, Florida Atlantic University

M.S., Environmental and Urban Systems, Florida International University

B.C.E., Hydraulics, Universidad Nacional de Buenos Aires

Registrations/Licenses

Professional Engineer
Florida 39555, 1988

Certifications

Project Management Professional, Project Management Institute (PMI), Certification #34108, 2001

Professional Affiliations

PMI

Communication Chair for the State of Florida, American Society of Civil Engineers

American Water Works Association

International Water Resources Association

Florida Association of Professional Engineers

Education

B.S., Professional Administration, Barry University

A.A., Construction Management, Miami-Dade Community College

Certifications

Florida Division of State Fire Marshall Fire Inspection

Florida Department of Education UBCI

Human Resource Management

ICC Commercial Building Inspector Candidate, 2010

Jose Lopez has 25 years of in-depth experience in disciplines including but not limited to permitting, project management, stormwater management and flood control, water supply, and Everglades restoration. His extensive permitting experience includes coordinating with various regulatory agencies as a project manager. Mr. Lopez has established relationships with various permitting and regulatory including Miami-Dade County Department of Permitting, Environment, and Regulatory Affairs (PERA); FDEP; SFWMD; Broward County Environmental Protection Department (EPD); Broward County Office of Environmental Services (BCOES); U.S. Army Corps of Engineers (USACE); U.S. Department of Agriculture (USDA); and FDOT, to obtain required permits.

Bank Stabilization of the North Fork of the New River (NFNR), SFWMD, FL. As project manager, Mr. Lopez coordinated with regulatory agencies including SFWMD, Broward County EPD, BCOES, FDEP, USACE, USDA, and FDOT to obtain all required permits for this work.

Wastewater Reuse Technology Pilot Project, West and South Miami-Dade County, FL. As a project manager, Mr. Lopez coordinated with regulatory agencies including SFWMD, Miami-Dade County PERA, Everglades National Park (ENR), Biscayne National Park, FDEP, USDA, and USACE to obtain all required permits for this pilot project.

C-11 Recreational Trail, Phases 1 and 2, FDEP OGT Grant. As project manager, Mr. Lopez coordinated with SFWMD right-of-way and Operation and Maintenance staff and FDEP to obtain all required permits for this project.

Additional permitting projects include the North Fork of New River Water Quality Improvements; City of Oakland Park Sleepy River Dredging Project; various stormwater projects for water quality improvements and flood protection; and Old Pompano Canal Water Quality Improvements.

Emerson Brown

Fire and Life Safety

Emerson Brown's 35 years of experience includes both design and construction management. He has performed construction management services on public and private commercial projects ranging from conventional projects to D-B construction. Mr. Brown's professional experience includes final inspections for occupancy, new facility construction, renovation and new addition projects, coordination with owner's senior managers, and management control for projects in excess of \$800 million in construction costs. Additionally, Mr. Brown's contributions to quality control encourage the practice of high standards for accurate documentation on technical observations of contract work for compliance with contract documents and project manual.

MDC North Campus Building 15, 40 Aqua Center, Miami, FL. Fire and life safety inspector. Responsible for plan reviews and inspection services. Atkins reviewed 100 percent construction documents and performed FBC inspections for replacement of the existing swimming pool with a new, 50 meters x 25 yards pool, and renovation of the existing diving pool, pool deck, and service building. Additionally, the project included construction of a new Aquatic Training and Fitness Center building with classrooms and administrative offices to facilitate diverse law enforcement education programs.

MDC Building 5000 Renovation of Theater and Related Spaces, North Campus, Miami, FL. Fire and life safety inspector responsible for plan reviews and inspection services. Atkins reviewed 100 percent construction documents and performed FBC inspections for renovation of the existing Lehman Theater and supporting spaces including seating, sound system, house lighting system, exterior signage, replacement of stage wood flooring, interior finishes, doors, hardware, and ceiling.

Praveen Ommi, CEP, AVS, LEED AP

Value Engineering/Cost Estimating/Scheduling

Education

M.S., Construction Management, Florida International University

B.S., Civil Engineering, Nagarjuna University

Certifications

Certified Estimating Professional (CEP), Association for the Advancement of Cost Engineering International (AACEI), Certificate No. 059, 2008

Associate Value Specialist (AVS), SAVE International, Certificate No. 200905033, 2009

LEED AP, USGBC, 2009

Praveen Ommi has 18 years of experience providing project control services on a variety of building, transportation, civil, and marine projects. He has extensive experience using estimating and scheduling software including MII, Micro-Computer-Aided Cost Engineering Systems (MCACES), Timberline, Primavera, and Microsoft Project. His experience includes developing cost estimates and schedules from conceptual stages to final design; participating in value engineering studies, bid analysis, site adaptation and GMP cost reviews, contract negotiations, pay application reviews, and change order reviews for cost and time extensions; and executing addenda and supplemental agreements for various projects.

Hurricane Irene Repairs, USACE Jacksonville District, FL. Lead estimator responsible for developing cost estimates at various stages of design.

New Fire Rescue Administration Building, St. Johns County Fire Rescue Agency, St. Johns County, FL. Provided cost estimates for the design of a 20,000-square foot facility to house six functions: administration, operations, logistics, fire prevention, training, emergency management service billing, and backup support for radio communications to the emergency operations center. Atkins provided comprehensive architecture and engineering services including program management and construction administration for this design-bid-build project. Atkins provided construction estimating for this project through all phases of design (i.e., general contractor hard bid was 8 percent less than the estimated cost). Change orders were 1.5 percent of the construction costs.

M-DCPS Construction Cost Estimating and Scheduling Contract, Miami, FL. Lead cost estimator responsible for providing cost estimates at all stages of projects, life-cycle costs, and comparative analysis, and review of contractor schedules during construction, significantly reducing the claims submitted on school construction projects.

Juan Alfonso

Cost Estimating/Scheduling

Education

M.S., Construction Management, Florida International University

B.A., Architecture, University of Miami

Certifications

Certified UBCI

Juan Alfonso has 17 years of scheduling, estimating, claims, and design development experience involving project controls software systems including Primavera, Suretrak, Surechange, and Claim Digger. As project controls group manager, he has managed scheduling and estimating assignments for Atkins' continuing contract with M-DCPS construction projects totaling over \$1 billion over the last 10 years, and maintains a high level of client satisfaction through his leadership abilities and commitment to quality work.

MDC Wolfson Campus, Miami Culinary Institute, Miami, FL. Cost estimator/scheduler responsible for managing the cost estimating and project controls efforts at various stages of design, letting, and during construction change controls. Atkins provided complete A-E design services for this MDC project, which achieved LEED Gold certification. The eight-story landmark urban infill building boasts state-of-the-art cooking labs, television studio, restaurant, and café.

M-DCPS Castaldi Studies, Miami, FL. Cost estimator responsible for reviewing existing conditions at three schools and preparing Castaldi reports that focused on existing site buildings reports. Also included cost evaluation utilizing the Castaldi generalized formula for modernization and conclusions based on results of the formula.

M-DCPS Construction Cost Estimating and Scheduling Contract, Miami, FL. Project manager responsible for leading a team of project controls personnel in cost estimating, market studies, schedule reviews, constructability reviews, site/facility assessments, change order reviews, claims/time analysis reviews, and GMP reviews for various significant projects at M-DCPS. Atkins is providing cost estimates at all stages of projects, life-cycle costs, and comparative analysis, and review of contractor schedules during construction, significantly reducing the claims submitted on school construction projects.

Certifications

Atkins is providing a team of certified professionals to assist the Village of Key Biscayne with the review of building plans and inspections immediately following a significant natural or human caused disaster that impacts the Village. The following pages contain proof of all certifications.

Summarization of team certifications

Name	Bldg Insp/Plans	Structural Plans Exam	Roofing Inspector	Electrical Insp/Plans	Plumbing Insp/Plans	Mechanical Insp/Plans	Gas Insp/Plans
Herminio Gonzalez, PE, CBO	PE51944 BN2128 BU743 PX902						
Mofa Hassoun, PE	PE61969		PE61969 Roofing Exp				
John Alford, FBE, PE, LEED AP BD+C	PE46515						
Rafiq Alqasem, PE, PTOE	PE40853						
Armando Amet III	BN6064						
Harry Belton, RLA	LA0900						
Jeremy Bourdon, PE	PE59933						
Albert Bryant				ER0012533			
Pelayo Calante, PE, LEED AP					PE53829	PE53829	PE53829
Elvys Diaz, AIA	AR94722						
Thomas Farmer, PE, LEED AP	PE58890				PE58890	PE58890	PE58890
Victor Herrera, PE	PE71164						
Shaista Javed	BN6067 PX3161						
Jose Lopez, PE, PMP	PE39555						
Manuel Perotin, PE, CFM	PE62730						
Douglas Ramirez, PE	PE70993	PE70993					
Fredy Tain, PE, SI	PE61011	PE61011					
Pedro Trevin, PE, LEED AP BD+C	PE15309	PE15309					
William Pitcher, PE	PE31852	PE31852					

Note: As per Florida Statutes, professional engineers/architects are allowed to perform the duties of the plans examiner and inspectors with their engineering or architect license. See FS 471.045 and FS 481.222.

David Carter, CCM – Principal-in-Charge

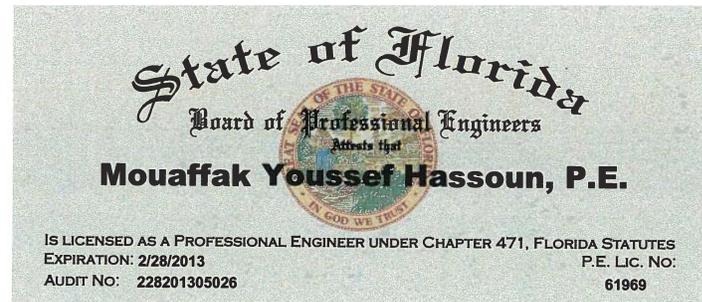


Herminio Gonzalez, PE, CBO, cont'd



Herminio Gonzalez, PE, CBO – Project Manager and Building Official

Mofa Hassoun, PE – QA/QC, Roofing Inspector



AC#5840703 STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 BUILDING CODE ADMINISTRATORS & INSPECTOR SEQ# L11102102645

DATE	BATCH NUMBER	LICENSE NBR	CATEGORY
10/21/2011	118079596	BN2128	BLDG

The STANDARD INSPECTOR
 Named below IS CERTIFIED
 Under the provisions of Chapter 468 FS.
 Expiration date: NOV 30, 2013

GONZALEZ, HERMINIO F
 9510 SW 29 TERRACE
 MIAMI FL 33165

RICK SCOTT GOVERNOR DISPLAY AS REQUIRED BY LAW KEN LAWSON SECRETARY

Shaista Javed – Code Review and Inspection Team (Architectural/Buildings)

AC#5835435 STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 BUILDING CODE ADMINISTRATORS & INSPECTOR SEQ# L11101902144

DATE	BATCH NUMBER	LICENSE NBR	CATEGORY
10/19/2011	118078061	BN6067	BLDG

The STANDARD INSPECTOR
 Named below IS CERTIFIED
 Under the provisions of Chapter 468 FS.
 Expiration date: NOV 30, 2013

JAVED, SHAISTA
 15324 SW 40TH CT
 MIRAMAR FL 33027

RICK SCOTT GOVERNOR DISPLAY AS REQUIRED BY LAW KEN LAWSON SECRETARY

AC#5840732 STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 BUILDING CODE ADMINISTRATORS & INSPECTOR SEQ# L11102102670

DATE	BATCH NUMBER	LICENSE NBR	CATEGORY
10/21/2011	118079596	PX902	BLDG

The STANDARD PLANS EXAMINER
 Named below IS CERTIFIED
 Under the provisions of Chapter 468 FS.
 Expiration date: NOV 30, 2013

GONZALEZ, HERMINIO F
 9510 SW 29 TERRACE
 MIAMI FL 33165

RICK SCOTT GOVERNOR DISPLAY AS REQUIRED BY LAW KEN LAWSON SECRETARY

AC#5835460 STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 BUILDING CODE ADMINISTRATORS & INSPECTOR SEQ# L11101902159

DATE	BATCH NUMBER	LICENSE NBR	CATEGORY
10/19/2011	118078061	PX3161	BLDG

The STANDARD PLANS EXAMINER
 Named below IS CERTIFIED
 Under the provisions of Chapter 468 FS.
 Expiration date: NOV 30, 2013

JAVED, SHAISTA
 15324 SW 40TH CT
 MIRAMAR FL 33027

RICK SCOTT GOVERNOR DISPLAY AS REQUIRED BY LAW KEN LAWSON SECRETARY

AC#5840745 STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 BUILDING CODE ADMINISTRATORS & INSPECTOR SEQ# L11102102683

DATE	BATCH NUMBER	LICENSE NBR	CATEGORY
10/21/2011	118079596	BU741	

The BUILDING CODE ADMINISTRATOR
 Named below IS CERTIFIED
 Under the provisions of Chapter 468 FS.
 Expiration date: NOV 30, 2013

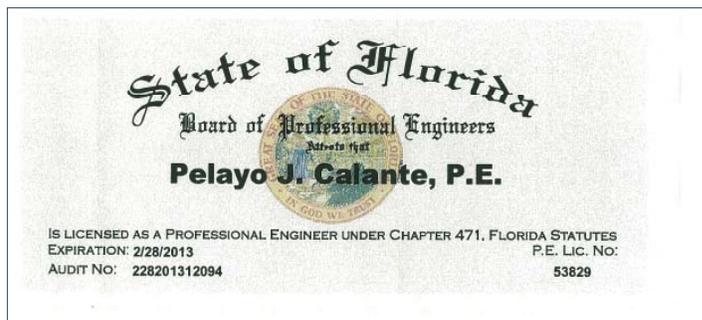
GONZALEZ, HERMINIO F
 9510 SW 29 TERRACE
 MIAMI FL 33165

RICK SCOTT GOVERNOR DISPLAY AS REQUIRED BY LAW KEN LAWSON SECRETARY

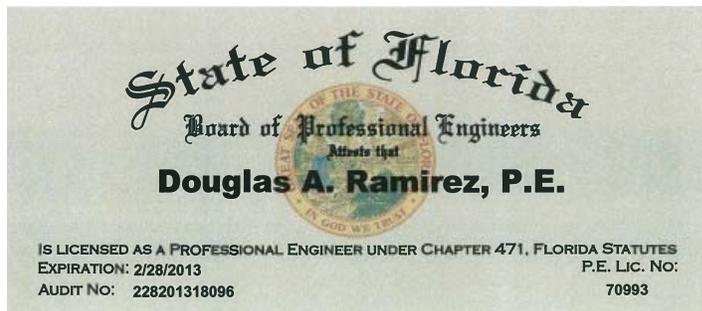
Shaista Javed, cont'd



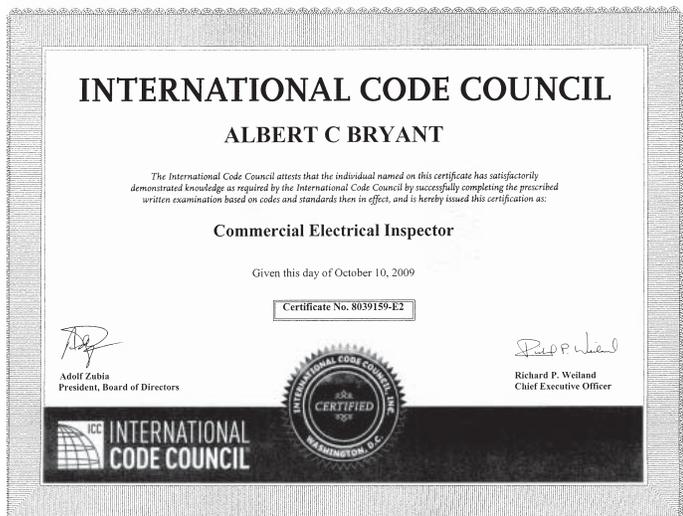
Pelayo Calante, PE, LEED AP – Code Review and Inspection Team (Mechanical/Plumbing/Gas)



Douglas Ramirez, PE – Code Review and Inspection Team (Structural/Threshold)



Albert Bryant – Code Review and Inspection Team (Electrical)



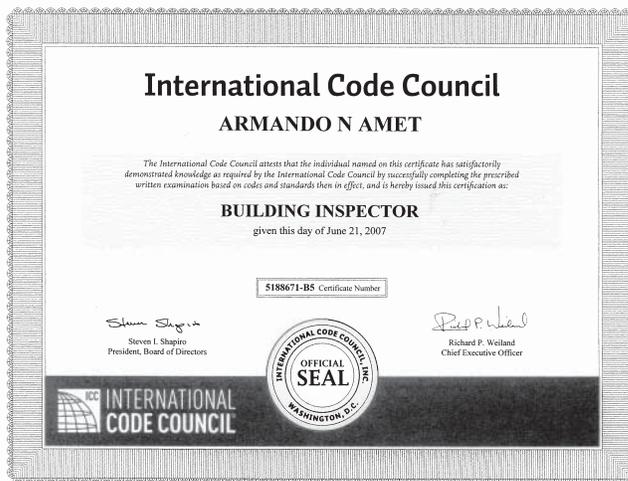
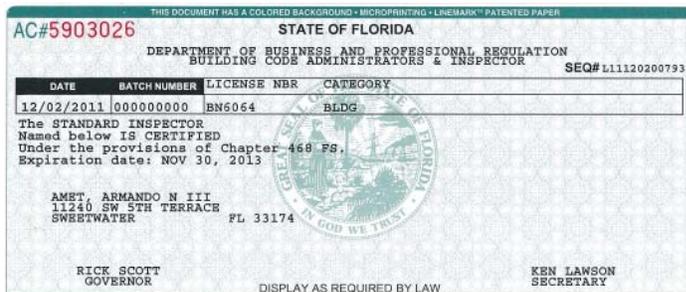
Fredy Tain, PE, SI – Code Review and Inspection Team (Structural/Threshold)

Licensee Details

Licensee Information	
Name:	TAIN, FREDY (Primary Name) (DBA Name)
Main Address:	13390 SW 66TH STREET MIAMI Florida 33183
County:	DADE
License Mailing:	
LicenseLocation:	

License Information	
License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	61011
Status:	Current,Active
Licensure Date:	01/13/2004
Expires:	02/28/2013
Special Qualifications	
Special Inspector	03/27/2006
Building Code Core Course Credit	05/14/2005

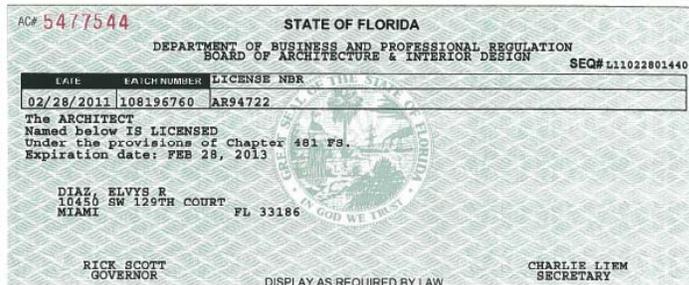
Armando Amet III, cont'd



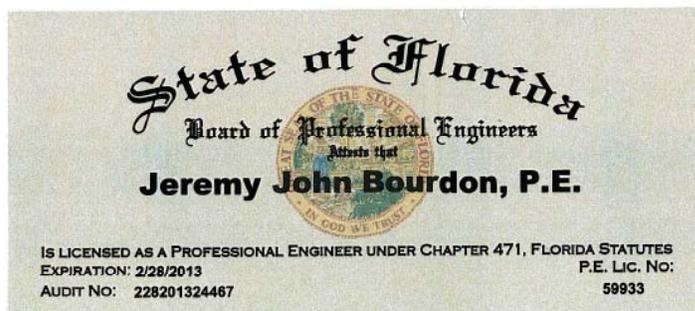
Armando Amet III – Code Review and Inspection Team (Structural/Threshold)



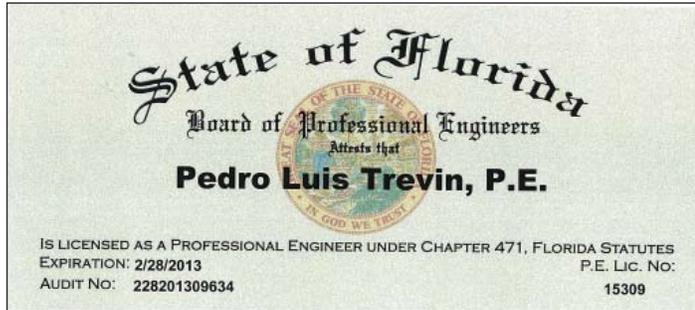
Elvys Diaz, AIA – Technical Support Team (Architectural/Buildings)



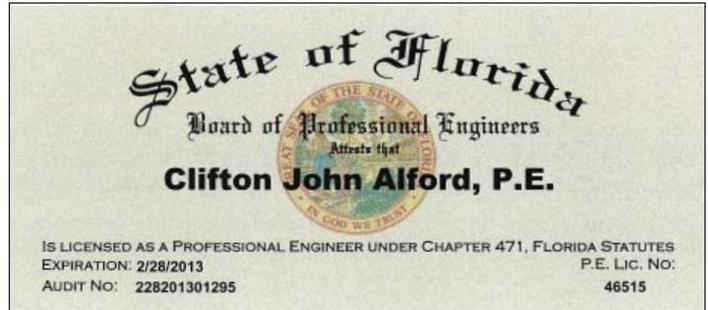
Jeremy Bourdon, PE – Technical Support Team (Transportation/Traffic)



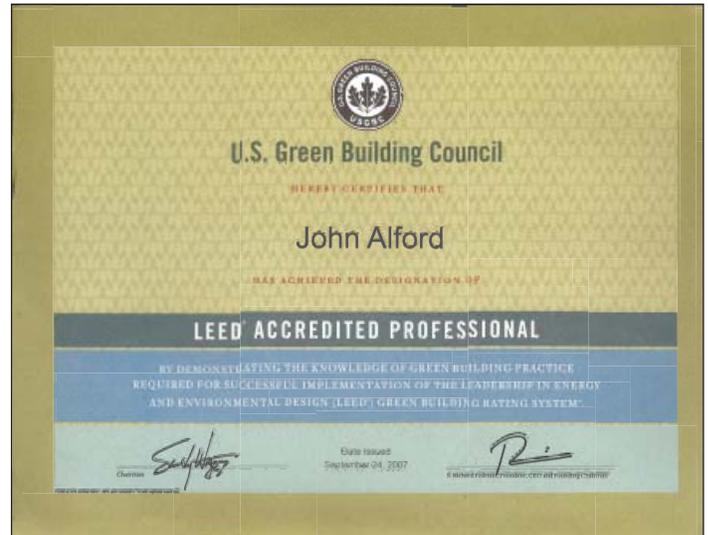
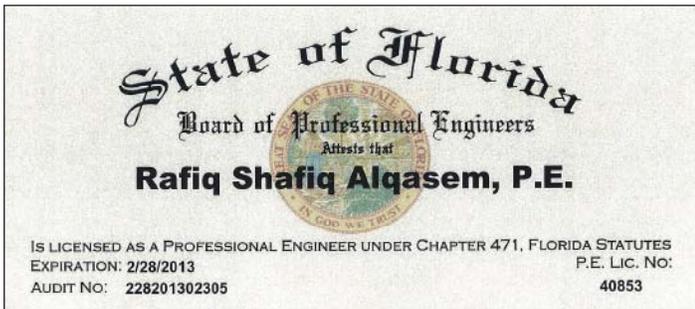
Pedro Trevin, PE, LEED AP – Technical Support Team (Electrical)



John Alford, FPE, PE, LEED AP – Technical Support Team (Fire Protection)



Rafiq Alqasem, PE, PTOE – Technical Support Team (Transportation/Traffic)



Transportation Professional Certification Board, Inc.
Affiliated with the Institute of Transportation Engineers

May 18, 2009

Rafiq S. Alqasem
PBS&J
2001 N.W. 107 Avenue
Miami, FL 33172

The Transportation Professional Certification Board (TPCB, Inc) is pleased to inform you that your PTOE certification has been renewed through 11/28/2012.

The TPCB has redesigned the certificates. Your new certificate will not include an expiration date and can be displayed as long as you are a certified PTOE. The date shown on your new certificate is your original certification date. You should expect to receive your new certificate in the coming months.

During your three-year certification period, please be aware of the following requirements that will assist in your certification maintenance and future renewal:

- maintain at least one valid governmentally issued professional engineering license;
- demonstrate attainment of 45 of professional development hours, as required per the attached document.

Prior to the expiration of your PTOE, you will be notified of your renewal deadline. Additional examinations are not required if you renew within three-months of your expiration date 11/28/2012.

From time to time, TPCB will distribute a newsletter. If you would like to contribute to the newsletter, please send any items of interest to the email address below.

Thank you for your continued PTOE certification and best wishes in the coming years.

Sincerely,
Steven D. Hofener
Steven D. Hofener
Chairman

Attachments

1099 14th Street, NW, Suite 300 West, Washington, DC 20005-3438 USA
Telephone: 202-289-0222 FAX 202-289-7722 E-mail: certification@ite.org

FLORIDA BOARD OF PROFESSIONAL ENGINEERS
1208 HAYS STREET
TALLAHASSEE, FL 32301
(850)521-0500

Examination Grade Report

Clifton John Alford
1565 Rochelle Lane
Oviedo, FL 32765

Mail Date: 02/01/2000
Exam Date: 10/29/1999

Examination Type	Location	Score	Results
FIRE PROTECTION ENGINEER EXAM	TUPPERWARE CONVENTION	78	PASS

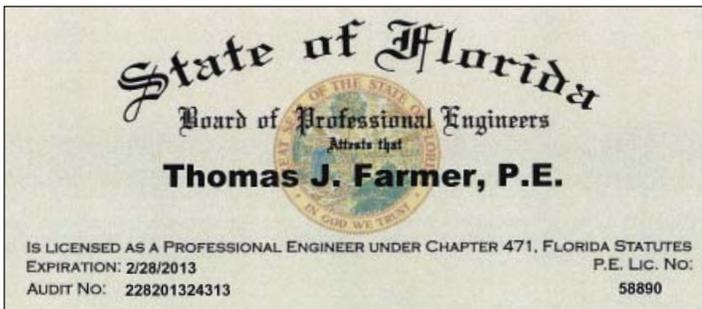
Passing candidates: Please read the enclosed information relating to licensure requirements.

Failing candidates: If you wish to retake the examination, complete the enclosed application and return it with the appropriate fee(s) to the above address.

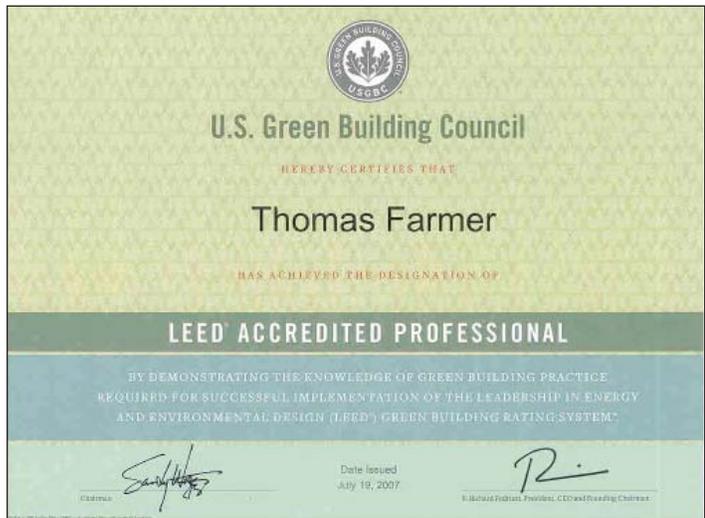
For additional information, please contact the Florida Board of Professional Engineers at (850)521-0500.

Any questions regarding eligibility requirements, please call the above number.

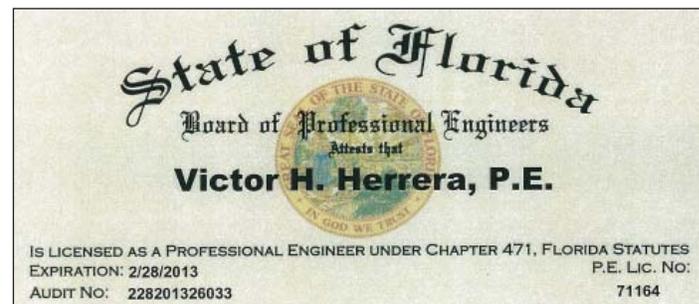
Thomas Farmer, PE, LEED AP – Technical Support Team (Mechanical/Plumbing)



Harry Belton, RLA – Technical Support Team (Landscape Architecture)



Victor Herrera, PE – Technical Support Team (Civil)



Willaim Pitcher, PE – Technical Support Team (Structural)

Licensee Details

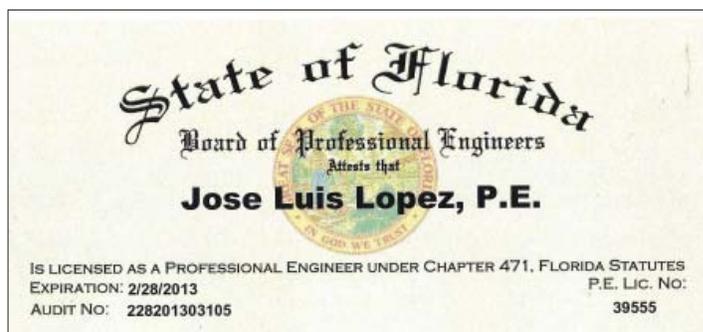
Licensee Information	
Name:	PITCHER, WILLIAM PAUL (Primary Name) (DBA Name)
Main Address:	1521 SW 68th Ave FT LAUDERDALE Florida 333170000
County:	BROWARD
License Mailing:	
License Location:	
License Information	
License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	31852
Status:	Current, Active
Licensure Date:	02/17/1982
Expires:	02/28/2013
Special Qualifications	Qualification Effective
Building Code Core Course Credit	

Emerson Brown – Technical Support Team (Fire and Life Safety)

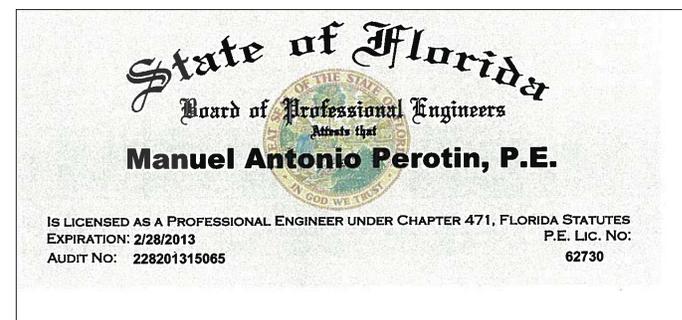


Praveen Ommi, CEP, AVS, LEED AP – Technical Support Team (Value Engineering/Cost Estimating/Scheduling)

Jose Lopez, PE, PMP – Technical Support Team (Permitting)



Manuel Perotin, PE, CFM – Technical Support Team (Engineering and Damage Assessments)



ATKINS

Relevant Project
Experience

Plan Design Enable

Relevant Project Experience

Hurricanes Wilma and Katrina Remediation Services, Fort Lauderdale, FL



During the 2005 storm season, Hurricanes Katrina and Wilma made landfall along Florida's coast, which significantly impacted the City of Fort Lauderdale. Overall, 66 City-owned facilities and properties suffered damage. The cumulative repair cost from the storms totaled more than \$14 million in remediation to the damaged facilities.

In response, the City of Fort Lauderdale selected Atkins for its emergency management and engineering expertise to implement a recovery strategy and to provide architectural, engineering, construction management, and financial recovery services necessary to permanently repair the damaged sites. Services included field assessments, project and construction management, and projects closeout for various facilities. The project at its peak required more than 20 technical professionals, which included architects, engineers, project and construction managers, cost estimators and schedulers, information technology staff, etc.

The first priority was to visit each damaged site to evaluate the initial damage scope of work and its allocated reimbursement cost outlined in FEMA PWs. RSMMeans was utilized during PW development for estimating procedures that did not take into consideration local construction costs in south Florida.

A critical project need was to document data for project closeout requirements set forth by the City's insurance carrier and FEMA. Atkins developed an in-house Microsoft Access database to help organize data and track scope and cost for each facility affected by the

storms. This digital database included typical assessments for various types of hurricane-related damages and provided a valuable launching point for future assessment and repair efforts in the event of another disaster.

During project restoration, Atkins provided turnkey engineering design services for a wide range of repair projects consisting of but not limited to Floyd Hull Little League Stadium facility improvements, The Landings entrance way wall restoration, International Swimming Hall of Fame structural repairs, Carter Park gym roof and flooring replacement, multiple facility mold and mildew restoration, citywide awning and canopy replacements, and Peele Dixie water treatment plant (WTP) lime building repair.

Design and construction management services encompassed all engineering disciplines including but not limited to structural, electrical, civil, mechanical, surveying, architectural, landscape architecture, and construction inspections. As an extension of City staff, Atkins became familiar with the requirements of multiple City departments, which enabled for a nearly flawless production of bid ready construction documents.

Key contract scope elements

- FBC reviews and inspections
- SREF reviews and inspections
- Florida Fire Prevention Code reviews and inspections
- Reviews and inspections including determination of conformance with various Board, State, and other code requirements

Project team members

- David Carter, CCM (principal-in-charge)
- Mofa Hassoun, PE (program manager)
- Shaista Javed (construction manager)
- Armando Amet III (inspector)
- William Pitcher, PE (structural)
- Douglas Ramirez, PE (structural)
- Fredy Tain, PE, SI (structural)
- Praveen Ommi, CEP, AVS, LEED AP (project controls)

Project cost

\$14 million (construction)

Hurricane Charley Charlotte County Schools Safety Inspections, Charlotte County, FL

In the aftermath of Hurricane Charley, Atkins assisted the Charlotte County School Board with facilities engineering analyses at five severely damaged school campuses. Atkins' cost estimators utilized field inspection data to provide a picture of total repair cost versus replacement costs for each surveyed building. As a result of these analyses, more than 30 structures on four campuses were deemed to exceed "FEMA's 50 percent," allowing funding for full building replacement.

In addition to providing specialists in school reconstruction, structural engineering, environmental hazards, law, and urban planning, Atkins' risk and emergency management division assisted the School Board with FEMA PW preparation to ensure maximum reimbursement under the Public Assistance program. Atkins also prepared cost estimations for projects to be submitted for FEMA Hazard Mitigation Grant Program (HMGP) funding.

Key contract scope elements

- Facilities engineering analysis
- Reviews and inspections including determination of conformance with various Board, State, and other code requirements

Project team members

- Mofa Hassoun, PE (project manager and inspections)
- Juan Alfonso (cost estimating)
- Praveen Ommi, CEP, AVS, LEED AP (project controls)

Project cost

\$362,000 (fee)

Hazard Mitigation Technical Assistance Program, Gaithersburg, MD

The FEMA Hazard Mitigation Technical Assistance Program (HMTAP) involves identifying the causes and solutions for unacceptable property, economic, and social losses that were the effects of property damages from natural, human caused, and technological hazards. Since 1995, under three consecutive open-ended contracts, Atkins has provided pre- and post-disaster technical support and programmatic assistance to FEMA's Mitigation Program in response to floods, tornadoes, earthquakes, hurricanes, and terrorist-based attacks throughout FEMA Regions II, III, IV, V, VI, IX, and X. Atkins is one of 20 subcontractors on the URS interdisciplinary team that has been reselected to address the engineering, architectural, economic, land management, planning, and environmental issues associated with reducing the losses from all hazards. Atkins provides various professional services including engineering and architectural services, National Environmental Policy Act (NEPA) and environmental services, community planning, technical assistance in implementing hazard mitigation programs, land surveying and mapping, floodplain mapping, and facilitation and training.

Work on 185 disaster declarations has involved more than 800 task orders (TO) including the following:

- 169 mitigation planning TOs
- 25 risk assessment TOs
- 182 post-event assessment TOs
- 224 benefit-cost analysis TOs
- 99 flood analysis TOs
- 146 surveying/GIS TOs
- 188 post-event rapid response TOs
- 226 TOs involving public outreach, facilitation, and training

Major events have included the Midwest and Red River of the North floods; 2004 Florida Hurricanes; 2003 and 2005 PDM-C reviews; Northridge and Nisqually Earthquakes; Hurricanes Katrina, Rita, Wilma, Georges, Marilyn, Opal, Floyd, and Fran; Tropical Storm Allison; and the World Trade Center attack. The total contract value to date is \$240 million.

Key contract scope elements

- Technical assistance in implementing hazard mitigation programs
- Identification of the causes and solutions for unacceptable property, economic, and social losses from natural, human caused, and technological hazards

Project team members

- Manuel Perotin, PE, CFM (project manager)

Project cost

\$15 million (fee)

FEMA Technical Assistance Research Contract (TARC), 2004–2015, Nationwide

Atkins is the primary member of a four-way joint venture for the TARC. Under TARC, Atkins supports FEMA's mitigation program by providing planning and engineering services to:

- Provide national mitigation experts to prepare mitigation and disaster-specific reconstruction guidance.
- Develop and support partnerships with local engineers, code officials, and industry groups to leverage disaster lessons learned to change building codes and improve building performance in areas subject to multiple hazards.
- Prepare mitigation guidance documents and technical bulletins geared toward various audiences that interpret National Flood Insurance Program regulatory requirements and describe technical concepts to nontechnical audiences.
- Provide direct assistance to FEMA to promote mitigation through a variety of outreach activities.

Program and project management

- Successful management of more than 90 task orders, with an average of 35 concurrent task orders in multiple project locations
- Use of earned value management system to manage budget and schedule
- Management of 24 subcontractors and specialty consultants
- Maintenance of FEMA's only flood/wind mitigation guidance hotline
- Rapid development and deployment of mitigation assistance teams (MAT) following major multi-hazard disasters

Representative assignments include the following:

Hurricane Katrina MAT, Hurricane Ike MAT, and 2008 Midwest Floods MAT. Conducted field assessments of damages resulting from coastal flood hazards, levee failures, and hurricane winds. Analyzed and leveraged ongoing post-disaster related federal, state, and local engineering activities to produce a variety of engineering solutions that will reduce future losses.

HAZUS-Multi-Hazard (HAZUS-MH) Support.

Collect and maintain data on HAZUS success metrics for utilization in studies and reports; develop and maintain technical content and postings to the HAZUS Web page; provide and expand support to HAZUS user groups; engage and mentor new HAZUS user groups; and support HAZUS outreach at conferences and other events—all accomplished under multiple task assignments. Updated FEMA 296, HAZUS-MH Risk Assessment Course, which included a compilation of pilot studies and federal demonstration studies conducted by FEMA and urban studies that describe how HAZUS can be used to assess potential losses and risks in less fortunate communities.

Technical Bulletins for the NFIP. Revise and update FEMA's NFIP Technical Bulletins in support of FEMA's mission to reduce the loss of life and property that can occur in flood disasters.

Building Code Adoption Support. Includes monitoring and tracking building code adoption; comparing the effectiveness of codes in areas of similar natural hazards vulnerability; tracking adoption rates for state-of-the-art codes across the nation; and providing building code data to support response and recovery activities.

Key contract scope elements

- Planning and engineering services to provide mitigation experts to prepare mitigation and disaster-specific reconstruction guidance
- Damage field assessments
- Building code adoption support

Project team members

- Manuel Perotin, PE, CFM (project manager)

Project cost

\$16 million (fee)

Hurricane Katrina Emergency Management Support, FDOT District Three, FL

This project was built upon a pre-existing inventory of all FDOT District Three traffic signals managed by FDOT Traffic Operations. The Atkins team captured GPS point locations, digital photographs, and site-specific characteristics of each of the 700+ signals in this 16-county area. Following Hurricane Katrina's landfall in 2005, the team conducted a windshield assessment of 400 of these signals in a six-county area. A dynamic GIS tool was then created by the team to graphically illustrate the post-storm condition of each traffic signal.

This project enabled the District to periodically see updates to traffic signal status, coordinate state and local resources, analyze structural performance based recorded wind speeds, and prioritize repair efforts improving their response and recovery efforts.

Key contract scope elements

- Windshield assessment
- GIS database development

Project team members

- Manuel Perotin, PE, CFM (project manager)
- Victor Herrera, PE (civil engineering)

MDC Plan Review and Inspection Services, Miami, FL

Atkins performed/has been performing code-related plan reviews and inspection services for various projects for all of MDC's campuses since 2002. The projects are/were in compliance with FBC, SREF, NFPA, National Electric Code (NEC), MDC design criteria, and all applicable life-safety codes. All projects were completed on time and on budget. Projects have included the following:

New Air Conditioning Replacement Project, North Campus. Technical plans review services included but were not limited to civil, architecture, structural, plumbing, mechanical/HVAC, fire protection, and electrical trades, as required at completion of Phase III–100 percent construction documents. FBC field inspections services were completed according to mandatory inspections, as requested by the construction manager. The project included replacement of the existing air conditioning units with new air handlers designed and calculated according to the architectural renovations of the lecture halls. Electrical upgrades were incorporated accordingly.

Buildings 15 and 40 Aquatic Center Renovation, North Campus. Technical plans review services included but are not limited to civil, architecture, structural, plumbing, mechanical/HVAC, fire protection, and electrical trades, as required at completion of Phase III–100 percent construction documents. FBC field inspections services were completed according to mandatory inspections, as requested by the construction manager. The project included replacement of the existing swimming pool with a new 25-meter by 25-yard pool, and renovation of the existing diving pool, pool deck, and service building. The project also included construction of a new aquatic training and fitness center building with classrooms and administrative offices to facilitate diverse law enforcement education programs.

Lecture Halls Renovation Project, North Campus. Technical plans review services included but are not limited to civil, architecture, structural, plumbing, mechanical/HVAC, fire protection, and electrical trades, as required at completion of Phase III–100 percent construction documents. FBC field inspections services were completed according to mandatory inspections, as requested by the construction manager. The project included renovation of two existing lecture halls at Building 2000, rooms 2158 and 2151, consisted of replacement of the current tables and chairs with upholstered tablet-arm theatre chairs. The project also included replacement of wall, ceiling, and floor finishes as well as electrical, telecommunications, and air conditioning upgrades.

Re-roofing Project, Kendall Campus, Building 3000. This project included miscellaneous electrical and mechanical work as well as plan reviews (Phase III–100 percent documents) and code inspection services.

SET Building at North Campus Renovations. This project involved plan reviews and code inspection services.

Computer Courtyards Projects, Kendall and North Campuses. This project involved plan reviews and inspection services for renovation and code upgrades at both facilities.

Street Crossing Project, North Campus. Atkins provided code compliance, plan review, and inspection services for the street crossing project at the North Campus. The project included plan review, approval of the A-E's revised plans upon completion of addressing code deficiencies and inspection services during construction including final inspection and project closeout.

New Parking Lot Facility, Entrepreneurial Education Center (EEC) Campus. This project involved plan reviews and inspection services for a new parking lot that included new drainage and lighting systems.

Key contract scope elements

- FBC reviews and inspections
- SREF reviews and inspections
- Florida Fire Prevention Code reviews and inspections
- Reviews and inspections including determination of conformance with various Board, State, and other code requirements

Project team members

- Mofa Hassoun, PE (project manager)
- Herminio Gonzalez, PE, CBO (assistant project mgr.)
- David Carter, CCM (principal-in-charge)
- Shaista Javed (associate construction manager)
- Albert Bryant (electrical inspector)
- Pelayo Calante, PE, LEED AP (mechanical engineer)
- Pedro Trevin, PE, LEED AP (electrical engineer)
- Douglas Ramirez, PE (structural engineer)
- Armando Amet III (inspector)
- Emerson Brown (fire and life safety inspector)

Project cost

\$20 million (construction)

M-DCPS Life Safety and Americans with Disabilities Act (ADA) Upgrades, Miami, FL



Key contract scope elements

- FBC reviews and inspections
- SREF reviews and inspections
- Florida Fire Prevention Code reviews and inspections
- Reviews and inspections including determination of conformance with various Board, State, and other code requirements

Project team members

- David Carter, CCM (principal-in-charge)
- Shaista Javed (construction manager)
- Mofa Hassoun, PE (project manager and plans review)
- Albert Bryant (electrical)
- Pedro Trevin, PE, LEED AP BD+C (electrical)
- Pelayo Calante, PE, LEED AP (mechanical)
- Praveen Omni, CEP, AVS, LEED AP (project controls)
- Douglas Ramirez, PE (structural)
- Fredy Tain, PE, SI (structural)
- Emerson Brown (fire/safety inspector)

Atkins was selected as one of three firms to provide complete A-E design services including programming, design, construction documents, bidding, and construction administration to address fire safety deficiencies at 17 schools.

Upgrades were required for egress elements such as stairs, corridors, balconies, doors, windows, and classrooms. Also included were renovations or replacements of kitchen exhaust/fire suppression hoods, home economics lab exhaust hoods, and fire alarm system components such as emergency horns and strobe lights, manual pull stations, exit signs, emergency egress lights, two-way communication consoles, speakers, and controls. Seven of the 17 locations required sprinkler systems to stage areas or entire facilities, necessitating acquisition of survey, flow test, and other information on an accelerated basis in order to size service lines, fire pumps, and other system components.

This safety-to-life project was performed within an incredibly tight schedule, dictated by the need of the construction manager to perform most of the work during summer vacation when school buildings were empty. Programming was completed within 30 days. Field investigation, design, cost estimating, and construction documentation were all done on an extremely accelerated basis, requiring close coordination of effort internally among various disciplines involved in performing the work and externally between the client, construction manager, and Atkins architects and engineers.

Project cost

\$6.3 million (construction)

Publix Architectural and Engineering Services, Statewide, FL

Since 1998, Atkins has provided comprehensive architectural consulting services to Publix Super Markets, Inc., for its stores and facilities throughout the southeast and west coast regions of Florida. More than 300 projects have been completed to date.

Our focus has been to assist Publix with the development and completion of its renovation and expansion program by providing well-structured design and production program management services, complete interior design layouts, and written scopes of work and final contract documents. In addition to these services, our scope of work includes field surveys of facilities, analysis of Savings Autonomy Value Engineering Expedite (SAVE) documents, and weekly meetings with the owner's representative to review and evaluate the proposed layouts prior to submittal to Publix stakeholders for approval. Permitting assistance is provided for each completed project and facility to ensure full code compliance.

Additional services involve recertification of stores with more than 40 years of service, including structural, mechanical, and electrical surveys of existing conditions at each facility; recommendations for improvements necessary for compliance with applicable building codes; and follow-up process approval with local building departments. Atkins has also conducted interior and site plan surveys for compliance with ADA and provided recommendations.



Remodels

Most remodels include implementation of a new decor, comprised of soffits, build-outs, finishes, colors, and other elements to change the appearance of the interior of the store. Remodels also include improvements to mechanical

and refrigeration systems. In most cases, equipment is replaced and/or relocated. Different areas, such as deli, bakery, and produce, are modified or expanded to respond to evolving market demands or to include new concepts and/or trends, such as "organic foods." All remodels also include necessary ADA upgrades.

Expansions

Expansion projects (increasing store size) are complex projects with mixed-use zoning, construction detailing, and code compliance/life safety challenges. These projects typically involve exterior remodeling—particularly in and around the main entrance of the building—and site improvements.

Conversions (acquisitions)

Typically involving stores built and used by another supermarket chain, conversions are especially challenging. A non-standard spatial framework and unorthodox infrastructure challenges the goal to create a seamless experience incorporating the latest Publix branding and identity. Although Publix has several size-driven prototypes, conversions are "off the grid," where no single prototype applies. Atkins customizes conversion design solutions for each store, establishing the "Publix look" while often maintaining, for budgetary reasons, the locations of some of the services or areas established by the previous supermarket. We work closely with Publix management, contractors, and zoning and building officials to make these conversions successful.

Key contract scope elements

- FBC reviews and inspections
- SREF reviews and inspections
- Florida Fire Prevention Code reviews and inspections
- Field surveys for renovation and conversions of existing facilities
- Recertification of stores including structural, mechanical, and electrical surveys of existing conditions at each facility
- Reviews and inspections including determination of conformance with various Board, State, and other code requirements

Project team members

- Elvys Diaz, RA (project manager)

Project cost

\$1.5 million annually (fee)

CEI Services for Intelligent Transportation System Building, Broward County, FL



Atkins provided full CEI services for a 42,000-square-foot intelligent transportation systems facility for FDOT District Four. The facility is home to the communications center and computer interface for highway cameras, variable message signage, and other communications with highways in Broward County, Florida.

Atkins' responsibilities included full construction management services, such as conducting weekly meetings, pay application review and approval, full on-site review of site and building construction, contractor schedule review and update, coordination of corrective action, assessment of supplemental agreement and change order applications, recommendations to client on course of action, document control, field inspection and testing, equal employment opportunity tracking, and final punchlist preparation and project closeout.

Significant coordination was required due to the technical nature and phasing of this project. Phasing included partial demolition of the existing Broward County facility, construction of the new facility, transfer of staff and equipment between the facilities, complete demolition of the existing building, and construction of new parking facilities following demolition.

Key contract scope elements

- FBC reviews and inspections
- SREF reviews and inspections
- Florida Fire Prevention Code reviews and inspections
- Reviews and inspections including determination of conformance with various Board, State, and other code requirements

Project team members

- David Carter, CCM (principal-in-charge)
- Mofa Hassoun, PE (project manager and plans review)
- Armando Amet III (code compliance civil inspections)
- Albert Bryant (electrical inspections)
- Praveen Ommi, CEP, AVS, LEED AP (project controls)

Project cost

\$1.8 million (fee)



MDC Wolfson Campus, Miami Culinary Institute, Miami, FL

Atkins provided complete A-E design services, as well as cost estimating, civil engineering, and surveying—from programming through construction support. We also provided building code inspections and plans review to verify compliance with all applicable building and life safety codes.



The new Miami Culinary Institute is a landmark facility in downtown Miami. An embodiment of sustainability and urban stewardship, the eight-story building is precisely fitted onto a 50-foot x 90-foot mid-block infill site. This LEED Gold building was designed with six cooking/teaching labs, a television studio/demonstration lab, and a full-fledged restaurant on the top floor. Other spaces include classrooms and administrative offices. BIM was an essential tool to complete the project.

The design coordinates with adjacent, elevated, public-transit rail and right-of-way; neighboring college buildings; and existing chiller lines, as well as new and existing utility infrastructure. The iconic design is meant to evoke the excitement of a new venture (culinary arts) for the nation's largest college in a forward-looking statement.

The principal design challenge was to integrate all mechanical and fire protection systems, including complex roof-exhaust systems for the kitchen hoods, while maintaining a LEED Gold rating, and an efficient use of the floor plates. Atkins achieved this through close involvement with the College and the Culinary Institute users, a best practices analysis of similar facilities, and the

use of BIM. Benefits of BIM derived from its capability for clash detection, which allowed Atkins to identify and eliminate structural, mechanical, and electrical issues relating to duct work, heating, ventilating, and air-conditioning (HVAC), and plumbing.

Key contract scope elements

- FBC reviews and inspections
- SREF reviews and inspections
- Florida Fire Prevention Code reviews and inspections
- Reviews and inspections including determination of conformance with various Board, State, and other code requirements

Project team members

- David Carter, CCM (principal-in-charge)
- Mofa Hassoun, PE (project manager and plans review)
- Armando Amet III (code compliance civil inspections)
- Douglas Ramirez, PE (structural plans review)
- Pelayo Calante, PE, LEED AP (mechanical)
- Praveen Ommi, CEP, AVS, LEED AP (project controls)

Project cost

\$17.5 million (construction)



M-DCPS South Dade Middle School Design-Build (D-B) Design and Construction Phase Services, Miami, FL



This D-B project for M-DCPS involved design criteria professional services as well as construction management services for a new 1,662-student-station middle school (formerly known as State School SS-1) located on a 20-acre site in the southwest agricultural region of the county. The 160,000-gross-square-foot, state-of-the-art school consists of three schools within a school, each made up of four clusters composed of one-, two-, and three-story buildings and organized around a central courtyard that serves as a main focus of the complex. Design services were provided for concrete tilt-up walls, concrete floor, roof slabs, and impact-resistant windows capable of withstanding hurricane force winds of 145 miles per hour. Since a portion of the school was to serve as an emergency shelter during hurricanes and other emergencies, design services were provided for a backup water supply, sewer service, and an electrical generator.

Atkins' services during construction consisted of ensuring that the project was built according to the approved plans, met design criteria requirements, and was in compliance with the Florida Building Code (FBC). Additional construction phase activities included producing reports documenting daily activities, monitoring project progress against the submitted schedule updates, performing threshold inspections, verifying contractor's pay applications, and developing a final punch list.

Key contract scope elements

- FBC reviews and inspections
- SREF reviews and inspections
- Florida Fire Prevention Code reviews and inspections
- Reviews and inspections including determination of conformance with various Board, State, and other code requirements

Project team members

- David Carter, CCM (principal-in-charge)
- Mofa Hassoun, PE (project manager during construction phase)
- Shaista Javed (construction manager)
- Douglas Ramirez, PE (structural)
- Rafiq Alqasem, PE, PTOE (transportation/traffic)
- Praveen Omni, CEP, AVS, LEED AP (project controls)
- Juan Alfonso (project controls)

Project cost

\$30 million (construction)



Kendall Town Center Site Development and Roadway Widening Design and Construction Phase Services, Miami, FL



Kendall Town Center is an initial development that will be part of a multiphase development, which includes a new 300-plus bed Baptist Hospital facility, new shopping center to include professional office space, six-bay transit (bus) depot with 39 parking spaces, and residential development. Atkins was selected by General Growth Properties, Inc. (GGP) to provide design services for infrastructure installations including water, sewer, drainage, lighting, signalization, sidewalk, curb/gutter, pond excavation, small bridge, and roadway installations.

To accommodate the new development and provide additional capacity, North Kendall Drive, one of Miami-Dade County's rapidly growing major arterial roadways, was widened by GGP. Atkins was responsible for providing full CEI services. The road widening project included more than 1 mile of urban arterial widening from four to six lanes including signalization, drainage, reconfiguration from a conventional crown to an inverted crown, utility improvements, relocations, base material installations, lighting, earthwork, gravity wall, sidewalk, controlled access median installation, and milling/resurfacing.

Responsibilities include conventional CEI inspection requirements including but not limited to daily work documentation; material sampling and testing; digital pictures being taken, printed, logged, and labeled; review of change order requests; and coordination between the contractor, utility companies, property owners, and governing agencies.

Key contract scope elements

- FBC reviews and inspections
- SREF reviews and inspections
- Florida Fire Prevention Code reviews and inspections
- Reviews and inspections including determination of conformance with various Board, State, and other code requirements

Project team members

- Mofa Hassoun, PE (project manager during construction phase)
- Harry Belton, RLA (Landscape architecture)
- Armando Amet, III (Construction inspections)

Project cost

Confidential

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Approach

The Village of Key Biscayne Building, Zoning, and Planning Department is requesting professional services associated with the review of building plans and inspections immediately following a significant natural or human caused disaster that impacts the Village. The department may need professional services to administer FBC, process plans, and provide inspections and clerk functions. In the event the Building, Zoning, and Planning Director determines such services are required, Atkins will provide these services upon the request of the Director.

Atkins has certified inspectors with state licenses in various disciplines including but not limited to the building, electrical, plumbing, and mechanical disciplines. If selected, our inspectors will work under the direction of the Village's Chief Building Official and the Chief Inspectors of the appropriate discipline. Our team also has experience providing code enforcement and zoning plan review services. Having conducted these types of services for more than 10 years for multiple clients, Atkins has established a methodology based on the code requirements for plans review and inspections for construction work that requires a construction permit. We will provide the required services commencing with design and continuing until issuance of the certificate of final inspection/acceptance.

Inspection services

Atkins will inspect permitted construction within the Village limits for compliance with Village codes and ordinances and permitted plans and specifications. We will:

1. Provide a cursory review of permit documents prior to start of construction.
2. Verify that the permit card is well maintained until occupancy or completion.
3. Inspect all assigned projects to ascertain compliance with FBC and other applicable codes and regulations.
4. Conduct FBC mandatory inspections and verify that all such inspections of construction work comply with the approved permit set.
5. Conduct cursory inspections to verify that all construction complies with the approved permit set.
6. Review and provide a recommendation for all approved contractor's requested field changes deviating from approved permit set.
7. Inspect assigned new construction, renovation, or addition projects on a weekly basis unless a more frequent interval is required.
8. Conduct fire alarm inspections and verify certification requirements for all life safety systems including fire alarm and fire sprinkler systems.
9. Conduct final fire safety inspections.
10. Conduct occupancy inspections and verify that all required building, electrical, gas, mechanical, plumbing, and fire protection systems have been inspected and accepted.
11. Conduct final inspections and verify compliance with provisos arising out of the final inspections.
12. Submit weekly and monthly inspection reports.
13. Attend meetings as required.
14. Review all conflicting design review inspection comments and render a recommendation.
15. Certify that the project is complete.

Customer service

Listening to our clients is a strong factor in Atkins' ability to successfully complete assignments. We will provide services consistent with Village of Key Biscayne's directives and underlying philosophies.

Reports

For relatively large projects, once a project schedule is developed and agreed upon by all team members and Village of Key Biscayne staff, periodic summaries and updates of various activities with a narrative report will be provided for distribution among team members and the Village. The intent is to provide positive direction to the team, track project variations in design and cost, and provide updates to design and data collection that may affect other activities. We will prepare written reports of inspections and investigations of complaints and other reports as may be reasonably requested by the Village using Village inspection forms.

Records

Atkins understands that maintaining daily logs of inspections are important in managing each inspection correctly and efficient. Our team will maintain records of inspections and investigations and log all results in the computer system.

Plan reviews

1. Provide a cursory review of permit documents prior to start of construction.
2. Verify that the permit card is well maintained until occupancy or completion.
3. Inspect all assigned projects to ascertain compliance with FBC and other applicable codes and regulations.
4. Conduct FBC mandatory inspections and verify that all such inspections of construction work comply with the approved permit set.
5. Conduct cursory inspections to verify that all construction complies with the approved permit set.
6. Review and provide a recommendation for all approved contractor's requested field changes deviating from approved permit set.
7. Inspect assigned new construction, renovation, or addition projects on a weekly basis unless a more frequent interval is required.
8. Conduct fire alarm inspections and verify certification requirements for all life safety systems including fire alarm and fire sprinkler systems.
9. Conduct final fire safety inspections.
10. Conduct occupancy inspections and verify that all required building, electrical, gas, mechanical, plumbing, and fire protection systems have been inspected and accepted.
11. Conduct final inspections and verify compliance with provisos arising out of the final inspections.
12. Submit weekly and monthly inspection reports.
13. Attend meetings as required.
14. Review all conflicting design review inspection comments and render a recommendation.
15. Certify that the project is complete.

Code compliance plans reviews

Code compliance plans review will take place during the project design phase. Three code compliance plans reviews will be performed:

- Phase I review – schematic
- Phase II review – 50 percent completion (design development)
- Phase III review – 100 percent completion (construction documents)

Atkins will perform plans reviews for the architectural, structural, civil, electrical, landscaping, and mechanical/plumbing disciplines as needed. When the review is completed, a formal plans review report that complies with all cited code compliance comments will be issued to the A-E for corrective measures and incorporation into the next review.

Reviewing plans and checking updated plans for compliance with the required code clauses will be performed in a timely manner to avoid delaying the design of a subsequent stage. In order to expedite the compliance of the plans to the requested changes/additions, a stand-up review meeting may be scheduled. This meeting will be attended by the A-E firm, Atkins' reviewers, and Village's project manager to resolve any outstanding issues regarding the review comments. At the completion of Phase III plans and specifications review, Atkins will issue a letter to the building official indicating that the construction documents are in compliance with code requirements and recommend issuance of the construction permit.

Turnaround time for plans review

Atkins fully understands the need to turn in plans review comments in a timely manner. Depending on the size and phase of the review, the Atkins team will perform reviews within the agreed contractual timeframe.

Minimum plans review criteria for buildings

Complying with FBC Chapter 1, Section 106, the construction documents will be reviewed by the plans examiner for the criteria summarized in Tables A and B on pages 48–49.

Progress code compliance inspections

Project code compliance inspections will commence upon issuance of the permit and continue through project completion. At the preconstruction meeting for each specific project, Atkins' project manager will explain the code compliance inspection firm's responsibilities to the contractor, and will provide a list of required code compliance inspections, scheduling of inspection procedures, and project communication protocol. The inspected items will depend on the project scope and required applicable inspections listed in Chapter 1, Section 109 of FBC. A list of buildings code required inspections are summarized in Table C on page 49.

Atkins' inspectors will perform inspections in a timely manner and without causing any delays to the construction progress of the project. Inspection reports will be submitted to all parties.

Final completion inspection

Once the project reaches completion, a formal walk through will be performed by certified inspectors for each discipline, and a final completion punch list will be developed and issued. This punch list will include all non-code compliance inspection comments for all disciplines. Once these cited items are corrected, Atkins will issue the certificate of final acceptance for execution by all parties, as required.

Communication

Atkins will contact contractors, architects, engineers, and citizens about construction projects, code questions, and other concerns. Atkins' team members will develop excellent working relationships with the Village as well as other consultants currently working on the various projects. Communication will be emphasized throughout projects and will be facilitated through regularly scheduled meetings and clearly written documentation.

Our approach to facilitate the necessary interface and effectively manage all aspects of every project is outlined in the next column.

Consistent, single point of contact. The Atkins team will be led by project manager, **Herminio Gonzalez, PE, CBO**, who will serve as the single point of contact between the Village and the proposed team. Although the avenues for communication among team members will be open and flowing, the focal point for direction and accountability will be the project manager. Mr. Gonzalez's primary focus will be continuous coordination among each of the team members, Village staff, other consultants, regulatory and permitting agencies, and other governmental agencies, as necessary. He will be responsible for all internal coordination of the projects so that the Village's role can be monitoring and checking, not team coordination.

Project kickoff. When appropriate, we will initiate specific tasks with a project kickoff meeting. Invitees will include team members identified for that particular task, appropriate Village staff, and other interested parties. The goal of this meeting will be to distribute the project work plan and schedule and discuss project-related issues.

Team meetings. For relatively large projects, periodic design meetings can be held for all key team members and Village staff to provide continuous and positive direction to all involved. Atkins will provide the agenda in advance of all meetings, prepare meeting minutes, and distribute the minutes within 3 working days for review and approval by the Village. Coordination of team meetings should be relatively simple, since we have developed a lean, focused, qualified team.

Documentation. All correspondence, telephone communications, meetings, directives, and discussions will be documented in writing by all team members. Standard forms will be developed specific to this project for telephone conversations, meeting memoranda, and transmittals. All correspondence will be copied to appropriate Village personnel, outside agencies, and other team members as necessary. As directed, we will coordinate the establishment of a complete documentation database, both in hard copy and electronic format.

Table A: Minimum plans review criteria for buildings (FBC 2007 Chapter 1, Section 106)

Site requirements	Occupancy group/ special occupancy requirements/ minimum type of construction	Fire resistant construction requirements	Fire suppression systems	Life safety systems requirements	Occupancy load/egress requirements	Structural requirements
<ul style="list-style-type: none"> • Parking • Fire access • Vehicle loading • Driving turning radius • Fire hydrant/ water supply/ post indicator valve (PIV) • Setback/ separation (assumed property lines) • Location of septic tanks, water lines, and sewer lines 	<ul style="list-style-type: none"> • Shall be determined per FBC Chapters 3, 4, and 5 	<ul style="list-style-type: none"> • Fire-resistant separation • Fire-resistant protection for type of construction • Protection of openings and penetrations of rated walls • Fire-blocking and draft-stopping and calculated fire resistance 	<ul style="list-style-type: none"> • Early warning smoke evacuation systems • Schematic fire sprinklers • Standpipes • Pre-engineered systems • Riser diagram 	<ul style="list-style-type: none"> • Occupant load and egress capacities • Early warning • Smoke control • Stair pressurization • Systems schematic 	<ul style="list-style-type: none"> • Occupancy load • Gross • Net • Means of egress • Exit access/exit/ exit discharge • Stairs construction/ geometry and protection • Doors • Emergency lighting and exit signs • Specific occupancy requirements/ construction requirements • Horizontal exits/exit passageways 	<ul style="list-style-type: none"> • Soil conditions/ analysis • Termite protection • Design loads • Wind requirements • Building envelope • Structural calculations (if required) • Foundation/wall systems • Floor systems/ stair systems • Roof systems • Threshold inspection plan

Table B: Minimum plans review criteria for buildings (FBC 2007 Chapter 1, Section 106)

Materials	Accessibility	Electrical	Plumbing	Mechanical	Gas
<ul style="list-style-type: none"> • Wood • Steel • Aluminum • Concrete • Plastic • Glass • Masonry • Gypsum board and plaster • Insulating (mechanical) • Roofing • Insulation 	<ul style="list-style-type: none"> • Site requirements • Accessible route • Vertical accessibility • Toilet and bathing facilities • Drinking fountains • Equipment • Special occupancy requirements • Fair housing requirement 	<ul style="list-style-type: none"> • Wiring • Services • Feeders and branch circuits • Over-current protection • Grounding • Wiring methods and materials • GFCIs <ul style="list-style-type: none"> – Equipment – Special occupancies – Emergency systems – Communication systems – Low voltage – Load calculation 	<ul style="list-style-type: none"> • Minimum plumbing facilities • Fixture requirements • Water supply piping • Sanitary drainage • Water heaters • Plumbing riser • Roof drainage/vents • Backflow prevention • Irrigation • Location of water supply line • Grease traps • Environmental requirements 	<ul style="list-style-type: none"> • Energy calculations • Exhaust systems • Clothes dryer exhaust • Kitchen equipment exhaust • Equipment/equipment location • Make-up air • Roof-mounted equipment • Duct systems • Ventilation • Combustion air/chimneys, fireplaces, and vents • Appliances • Boilers/refrigeration • Bathroom ventilations • Laboratory 	<ul style="list-style-type: none"> • Gas piping • Venting • Combustion air • Chimneys and vents • Appliances • Type of gas • Fireplaces • LP tank location • Riser diagram/shutoffs
Interior requirements		Special systems	Swimming pools	Demolition	
<ul style="list-style-type: none"> • Interior finishes (flame spread/smoke development) • Light and ventilation • Sanitation 		<ul style="list-style-type: none"> • Elevators • Escalators • Lifts 	<ul style="list-style-type: none"> • Barrier requirements • Spas • Wading pools 	<ul style="list-style-type: none"> • Asbestos removal 	

Table C: Required inspections (FBC 2007 Chapter 1, Section 109)

Structural inspections		Architectural inspections		
Buildings	Threshold buildings	Framing inspection	Sheathing inspection	Roofing inspection
<ul style="list-style-type: none"> • Foundation and footings inspection: <ul style="list-style-type: none"> – Stem-wall – Monolithic slab on-grade – Piling/pile caps – Footer/grade beam • Termites inspection • Concrete slab and under floor inspection • Reinforced steel and structural frames 	<ul style="list-style-type: none"> • Will be inspected according to structural inspection plan that must be submitted to the enforcing agency prior to the issuance of building permit • Shoring and associated framework will be inspected by both a Florida-licensed professional engineer and a threshold inspector 	<ul style="list-style-type: none"> • Window/door framing • Vertical cells/columns • Lintel/tie beams • Framing/trusses/bracing/connectors • Draft stopping/fire blocking • Curtain wall framing • Energy insulation • Accessibility • Rough openings verifications 	<ul style="list-style-type: none"> • Roof sheathing • Wall sheathing • Sheathing fasteners • Roof/wall dry-in 	<ul style="list-style-type: none"> • Dry-in • Insulation • Flashing
MEP and gas inspections				
Electrical inspections	Plumbing inspections	Mechanical inspections	Gas inspections	
<ul style="list-style-type: none"> • Underground inspection • Rough-in inspection • Final inspection* 	<ul style="list-style-type: none"> • Underground inspection • Rough-in inspection • Final inspection* 	<ul style="list-style-type: none"> • Underground inspection • Rough-in inspection • Final inspection* 	<ul style="list-style-type: none"> • Rough piping inspection • Final piping inspection • Final inspection* 	

* Final inspections will be performed at the completion of the building when it is ready for occupancy.

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**Fees and Schedule
of Hourly Rates**

Fees and Schedule of Hourly Rates

Position	Hourly rate
Building Official, Project Manager, and Code Administrator	\$94.23
Plans Examiner (Building, Electrical, Mechanical, and Plumbing)	\$85.48
Plans Examiner (Structural)	\$88.34
Inspector	\$73.27
Roofing Inspector	\$79.38

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