



MEMORANDUM

Agenda Item 15(C)1

TO: Honorable Chairman Jose “Pepe” Diaz and
Members, Board of County Commissioners

DATE: July 8, 2021

FROM: Honorable Harvey Ruvin, Clerk
Circuit and County Courts

SUBJECT: Appointment of Alejandro
Munilla to serve as a
member of the Small
Business Enterprise
Construction (SBE-C)
Advisory Board

Melissa Adames, Director
Clerk of the Board Division

It is recommended that the Board consider the appointment of Mr. Alejandro Munilla to serve as a member of the Small Business Enterprise Construction (SBE-C) Advisory Board.

In accordance with Section 10-33.02 of the Miami-Dade County Code, the Board of County Commissioners shall appoint a representative of the Engineering Contractors Association of South Florida, Inc. to serve on the SBE-C Advisory Board. The Department of Small Business Development has submitted the name of Mr. Munilla, as recommended by the respective organization.

The memorandum from Gary Hartfield, Small Business Development, Division Director, the recommendation from Rachele Rinker-Koch, Executive Director, Engineering Contractors Association of South Florida, Inc., and the application and resume for Mr. Munilla, are attached for your review.

MA/lrs
Attachments

Memorandum



Date: May 11, 2021

To: Loren Smith, Boards Coordinator
Clerk of the Board

From: Gary T. Hartfield, Director
Small Business Development Division

A handwritten signature in blue ink, appearing to read "G. Hartfield", written over the "From:" line.

Subject: Appointment of Small Business Enterprise Construction (SBE-C) Advisory Board Member

Attached please find correspondence from Engineering Contractors Association of South Florida, Inc. wherein Mr. Alejandro Munilla is recommended for appointment on the Small Business Enterprise Construction Advisory Board to represent Engineering Contractors Association of South Florida, Inc. It is respectfully requested that the Board of County Commissioners take action on this item at their next Commission meeting.

Should you have any questions or need additional information, please contact me at (305) 375-3152.

Thank you for your prompt attention to this matter.

Attachment

c: Alex Munoz, Director, Internal Services Department

Engineering Contractors Association of South Florida, Inc.

15800 Pines Blvd. Suite 3041
Pembroke Pines, FL 33027

Telephone: 954-236-0737
E-mail: ECA@ecasf.org
Website: www.ecasf.org

President
Fernando Sanchez
Lead Engineering

April 30, 2021

Vice President
Alejandro Munilla
3MB Construction

Internal Services Department
Small Business Development
111 NW 1 Street, 19th Floor
Miami, Florida 33128

Secretary-Treasurer
Tom Brady
ACME Barricades

Director
Alejandro Halley
Halley Engineering

The Engineering Contractors Association of South Florida, Inc. would like to nominate Alejandro Munilla as our representative for the SBE Construction Advisory Board.

Director
Brent Marley
Condotte America

Director
Kenneth Baer
Central Civil
Construction

Regards,

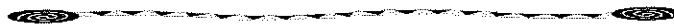
Rachele Rinker-Koch
Executive Director

Director
Jorge Baez
Ferreira Construction

Director
J.C. Calleiro
Ozinga

Director
Todd Bachman
Florida Coast Equipment

Executive Director
Rachele Rinker-Koch





Carlos A. Gimenez, Mayor

Internal Services Department
Small Business Development
111 NW 1 Street, 19th Floor
Miami, Florida 33128
T 305-375-3111 F 305-375-3160

Board Application

Please complete this form and submit with your current resume.

1. Candidate Name: Alejandro Munilla

Home Address: 7215 Sunset Dr.
City: Miami State: FL Zip: 33143

Work Address: 6201 sw 70th st
City: Miami State: FL Zip: 33143

Home Phone: (786) 295-9391
Work Phone: (786) 295-9391
Email address: amunilla@the3mb.com

2. Miami-Dade County Commission District:
Home District: 7 Business District: 7

3. Current position: Director of Civil Operations

4. Current employer: MCM and Manager of 3MB Construction

5. Please list area(s) of expertise/contribution you can make to further the mission of the SBE Advisory Board or Living Wage Commission:

I strongly believe in the worthwhile goal of promoting and supporting small businesses and look forward to advocating that mission as its part of my core belief that Small businesses provide an immeasurable benefit to society. Based on my business experience, including with numerous projects that require certified payrolls, I am certain I will be able to provide a positive contribution as an advisor in the implementation and compliance of the recently established Living Wage requirement for employees on specified County service contracts that fall under the Miami-Dade County's Living Wage Ordinances.

My areas of expertise that permit me to make a contribution to further the mission of the SBE Advisory Board or Living Wage Commission includes my familiarity with the ordinances and pertinent state and local small business goals, and my knowledge of small business problems gained during my 13 years in the construction industry concentrating on State, City and County projects, most of which adopt small business goals. It is that experience that would facilitate being able to explain, suggest and promote solutions to the small businesses and governmental bodies for matters related to contracts compliance, and administrative impacts such as delayed approvals and payments and resolution of disputes. As an owner of a small business myself, I have experience with typical business start up issues and appreciate the growing pains in starting up a small business.

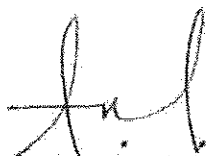
6. List prior experience serving as a Board member for other non-profit organizations:

- 1. Engineering Contractors Association of South Florida (Board Member)
2. Belen Jesuit Preparatory School Architecture Construction Real Estate Engineering Section (Board Member)

7. Please share any other information you feel important for consideration of your Application to serve as an Advisory Board member or Living Wage Commission member:

Signature: Alejandro Munilla

As a previous Small Business owner, and employee to a major South Florida construction company, I understand the importance of programs such as the SBE to promote and assist small business that at times lack the tools and breadth of experience that I have gained in my managerial capacity as part of a larger company that continually works hand in hand with small businesses. I have specific experience on overseeing multiple projects that have been subject or part of the diverse programs including DBE and SBE. During that time, while acting on behalf of the prime Contractor, I have had the opportunity and pleasure of assisting multiple smaller companies, mentoring and providing support to the small business owners. Significantly, my current employer has managed the MCC 8 program at the Miami International Airport (MIA) for many years. That program's mission is to train and assist small businesses in the bidding and running of work, as well as in the preparation of the pay requisitions and meeting the governmental compliance requirements.



Sign Name

4/23/21

Date



Alejandro Munilla, PE

EDUCATION

B.S. in Civil Engineering,
Florida State University,
2008

LICENSING/ CERTIFICATIONS/ TRAINING

Registered Professional
Engineer, FL#76048

General Contractor
License: CGC1527081

Advanced M.O.T.

CTQP Asphalt Paving
Level 1&2

Nuclear Gauge Safety
Certified

USACE Construction
Management

SWPPP Inspector

OSHA 30-Hour

Confined Spaces
Training

Qualified Rigger

Microstation

CTQP Pile Driving
Inspector

CTQP Earthwork
Inspector Level 1

Excavation Competent
Person

AFFILIATIONS

FDOT PE Trainee

Alejandro Munilla is a proactive, results-oriented Director of Civil Operations with 13 years of comprehensive experience in complex construction projects in the heavy civil, municipal, bridge and roadway market sectors. Alex is a graduate of Florida State University, and is a registered professional engineer. He is responsible for overall project coordination and supervision and some of his specific project job tasks include, coordination of all logistics for project start-up, instilling and ensuring a safe project environment, assuring that all project documentation such as permits, daily reports, as-builts and shop drawings are kept and maintained, implementing checklists and guidelines to optimize quality and minimize rework, maintain updated project schedule, documenting impacts and changes bi-weekly, and attending regular meetings with the project owner to address critical items and maintain a positive and professional relationship. Alex takes pride in well managed and coordinated project operations, which has allowed his jobs to consistently meet schedule and budget objectives.

PROJECT EXPERIENCE SUMMARY

E4S38 – FDOT A1A BRIDGE REHABILITATION, Port St. Lucie, FL

Role: Area Manager

Scope of Work: The Improvements under this contract consist of bridge rehabilitation (Peter J. Cobb Memorial Bridge, bridge No. 940094) including scour protection, rubble riprap, gabions, bedding stone, pile repairs, fender system and spalled/delaminated concrete repairs, sidewalk, driveways, fencing, pedestrian/bicycle railing, replacing the existing Observation Walks, and Observation Walk lighting along State Road A1A for 0.585 miles over the Intracoastal Waterway in St. Lucie County. The project included the installation of approximately 1,954 LF of prestressed beams and 7,027 LF of 18" piling.

T4433 SR 842 BROWARD BOULEVARD, Fort Lauderdale, FL

Role: Area Manager

Scope of Work: T4433 SR 842 Broward Boulevard is a \$16M improvements project that consists of construction of a temporary ACROW bridge to allow construction of the new bridge replacement (existing North Fork River bridges No. 860284 and No. 860063 – replaced by proposed bridge No. 860675), and also including bridge deck grooving and replanning, retaining walls, gravity walls, bulkheads, riprap, structures monitoring, earthwork, milling and resurfacing, widening, drainage improvements, fencing, landscaping, signing and pavement markings, traffic monitoring sites, overhead sign structures, lighting install, ITS/fiber-optic systems, signalization, utility adjustments and Utility Work by Highway Contractor Agreement (UWHCA) along the road described as SR 842 (Broward Boulevard), From NW 15th Ave. Easterly 1.562 Miles To SR 5 (US 1/Federal Highway).



Alejandro Munilla, PE

HEFT II – E8N20, Miami, FL

Role: Civil Area Manager

Scope of Work: This project consists of widening the HEFT mainline between SW 72nd Street & SW 40th Street to two express lanes and three general purpose lanes in each direction; and improvements to the mainline alignment between SW 56th street & Bird Road to increase the design speed. The widening of mainline HEFT will involve the widening of four pairs of bridges. In addition, a replacement northbound exit ramp to SW 117th Avenue will be constructed. Furthermore, the existing toll facilities will be replaced with a new All Electronic Toll Gantry Structure. Bird Road will be widened by one lane and SW 117th Avenue will be reconfigured to make Frontage Road a one way street with limited access.

FDOT IRMA DISASTER RELIEF, Monroe County, FL

Role: Civil Area Manager

Scope of Work: MCM has been awarded an emergency storm recovery contract by the Florida Department of Transportation to clean up storm debris in the lower Florida Keys between lower Sugarloaf Key to the 7 mile Bridge. MCM is working on the most affected areas by Hurricane Irma which struck Florida on September 10, 2017. The emergency recovery work consists of collecting debris off US1 – Overseas Highway and the off-system roadways in each of the Keys within our work zone. Storm debris is collected and hauled to Debris Management Sites (DMS) for processing prior to final disposition.

LAKESIDE RANCH STORMWATER TREATMENT AREA SOUTH PHASE II, Martin County, FL

Role: Civil Area Manager

Scope of Work: The purpose of Lakeside Ranch STA is to treat water in order to reduce phosphorus loading to Lake Okeechobee and the Everglades. MCM will be responsible for completing all Phase II construction activities which will include five treatment cells south of the Preservation Area, comprised approximately 30,328 lineal feet of perimeter levees and 17,442 lineal feet of interior levees; Pump Station S-191A for flood control and recirculation to the STA. The pump station is comprised of three (3) electric pumps at 150 CFS (2 operating and 1 standby), for a firm capacity of 300 CFS; and the Outlet Canal for the entire STA, including culverts under U.S. Highway 98. The Lakeside Ranch STA Project and its associated structures are located on a 2,700-acre parcel of land in southeastern Okeechobee and western Martin Counties between U.S. Highway 441 and U.S. Highway 98 east of Lake Okeechobee.

STA 1W EXPANSION, West Palm Beach, FL

Role: Civil Area Manager

Scope of Work: The objective of the corrective action inversion is to reduce the site-wide copper concentrations below the U.S. Fish and Wildlife Service's (Service) copper interim value of 85 milligrams per Kilogram (mg/Kg). The soil corrective action inversion work plan details the steps necessary for the successful implementation of the proposed corrective actions. The scope of work includes: initial site preparation for soil inversion, pre-plowing site preparation, deep plow and shallow plow soil inversion.

SITE 1 IMPOUNDMENT, D-525N (L-40 MODIFICATION) AND MISCELLANEOUS FEATURES, Palm Beach County, FL

Role: Project Manager

Scope of Work: This USACE project is part of the Comprehensive Everglades Restoration Program (CERP) and includes modifications to approximately 15,000-LF of the existing D-525N Levee. Construction activities include miscellaneous demolition, vegetation clearing and grubbing, dewatering operations using sheet pile coffer cells, borrow, screening and disposal area operations, excavation and fill placement of over 750,000 CY, installation of erosion control measures that includes the placement of 60,000 CY of soil cement, turf reinforcement mats and aquatic vegetation, installation of embankment instrumentation, construction of approximately 6-acre wildlife wetland area including the installation of 36" RCP pipe and other miscellaneous embankment construction activities.



Alejandro Munilla, PE

SR 823 RED ROAD PHASE III (W. 46TH ST TO W. 54TH ST), Hialeah, FL

Role: Project Engineer

Scope of Work: This FDOT roadway construction project will consist of the following: Reconstruction and widening of the SR 823 (NW 57th Avenue) from West 46th Street to West 54th Street; implementing multiple traffic switches to allow for construction phasing; constructing a new retaining wall which composes of steel sheet pile panels on the west side of NW 57th Avenue; installing twin 74" culverts along the west side of NW 57th Avenue, sidewalks along the east side of NW 57th Avenue; Installing curb and gutter on the east side of NW 57th Avenue; widening the Little River Creek Bridge; Removing trees that conflict with the installation of new drainage structures throughout the project; Installing multiple new traffic signals at street intersections; the installation of drainage and utilities; installing a new 54" water main; Installing new landscape; installing new project lighting; installing multiple concrete drill shafts; milling & resurfacing.

SR 823 RED ROAD PHASE II (W. 23RD ST TO W. 46TH ST), Hialeah, FL

Role: Project Engineer

Scope of Work: This roadway construction project will consist of the following: Reconstruction and widening of the SR 823 (NW 57th Ave) from West 23rd St. to West 46th St.; implementing multiple traffic switches to allow for construction phasing; constructing a new retaining wall which composes of concrete sheet panels and piles along the west side of NW 57th Avenue; installing twin 84" culverts along the west side of NW 57th Avenue, sidewalks along the east side of NW 57th Avenue; Installing curb and gutter on the east side of NW 57th Avenue; Removing trees that conflict with the installation of new drainage structures throughout the project; Installing multiple new traffic signals at street intersections; the installation of drainage and utilities; driving over 800 concrete precast piles; Installing new landscape; installing new project lighting; installing multiple concrete drill shafts; milling & resurfacing.

HEFT AET PHASE 1 & PHASE 2, Miami-Dade County, FL

Role: Project Engineer

Scope of Work: The proposed improvements on this project include the conversion of the southern HEFT to an All Electronic (AET) collection system. The work will include modifications to the Florida's Turnpike Enterprise Homestead and Bird Road mainline toll plazas and 17 ramp toll plazas. The overall AET conversion scope includes: demolition, grading, paving, maintenance of traffic (MOT), signing and pavement markings, lighting modifications, drainage modifications, intelligent transportation system (ITS) preservation, toll plaza fiber optic connections, traffic signal modification, toll equipment structure installation, permitting, and architectural (including structural, mechanical, electrical, and plumbing). The proposed improvements also include the construction of auxiliary lanes from north of SW 40th Street to south of SR 836/Dolphin Expressway. The overall auxiliary lanes construction scope includes: roadway construction, paving, MOT, structural modifications, signing and pavement markings, lighting modifications, drainage modifications, and intelligent transportation system (ITS) preservation.

414959-1 US-192 RELIEF BRIDGES, Brevard County, FL

Role: Assistant FDOT Project Administrator. Coordinated with the Inspectors. Assisted with Construction Support Specialist duties such as putting together project Estimates, S.A.'s, Work Orders, Change Orders, and Claims.

Scope of Work: Included construction of a Pedestrian bridge and the replacement of 3 US 192 Bridges over the Indian River. M.O.T. phasing.



Alejandro Munilla, PE

405506-3 I-95 WIDENING, Brevard County, FL

Role: Assistant FDOT Project Administrator. Coordinated with the Inspectors. Assisted with Construction Support Specialist duties such as putting together project Estimates, S.A.'s, Work Orders, Change Orders, and Claims.

Scope of Work: Included widening from 4 lanes to 6 lanes from SR 514 to N. of CR 516 (MP 12.415-16.588), resurfacing existing pavement, drainage work, structural work to I-95 bridges and lighting work. ARRA project.

I-95 MANAGED EXPRESS LANES, Miami, FL

Role: Field Engineer

Scope of Work: Project entails reconstruction of the I-95/I-195 flyovers, widening of six bridges on mainline I-95, and substructure modifications of the HOV Connector ramp bridge from SR 112 to I-95. Reconstruction of the I-95 flyovers consisted of strengthening of existing substructure through the use of a combination of micro piles, pipe pile, and pre-stressed concrete pile. The six bridge widening consisted of pre-stressed concrete and pipe pile foundations. The modification to the HOV Connector required removal and new construction of the substructure in order to accommodate the widening of I-95. The new foundations were a combination of concrete and pipe piling. The substructure was Class IV mass concrete which included horizontal and vertical post tensioning of the piers and caps.

2392032 SR-50 WIDENING FROM SR 436 TO SR 417, Orlando, FL

Role: P.E. Trainee Construction Phase. Worked with CEI consultant group Cardno TBE. Assisted with daily field activities and plans overview.

Scope of Work: Included widening SR 50 from 4 to 6 lanes for approximately 3 miles. An interchange that included a fly over, MSE walls, drainage work, and resurfacing of existing pavement.

MIAMI BEACH SOUTH POINTE PARK, Miami Beach, FL

Role: Field Engineer

Scope of Work: This project consisted of the renovation of a 19-acre park, including extensive site work, underground utilities, construction of new walk along the coastline, parking lot renovation and addition, construction of a new Pavilion, Playground and other Accessory Buildings. The scope of work also included the construction of a 13' High Serpentine Land form, water features, and improvements to Smith & Wollensky Restaurant Patio & Entrance. Additionally, this project is located in an environmentally sensitive area, which includes dealing with endangered species and delicate environments like Native Dunes. Extensive Pruning, Replanting and new Landscaping & Irrigation Construction are also a main component of this job.

MIAMI INTERMODAL CENTER NW 21ST STREET IMPROVEMENTS, Miami, FL

Role: Intern

Scope of Work: Roadway reconstruction of NW 21st Street from East of NW 42nd Avenue to NW 37th Avenue. Scope included storm water drainage installation, requiring tie-in to an existing 60" RCP outfall by introducing a 20TN Box Culvert Control Structure. Installation of this new drainage system required MCM to work around numerous existing utilities and adjust water & gas valve elevations due to roadway grade changes. Additionally, drainage & lighting conduit crossings on the local roadways required MCM to relocate existing utilities that were in conflict with roadway reconstruction. One of the most intricate and difficult task of the project was installing a new 42" drainage pipe above an active existing FPL duct bank, below an existing 3" gas line with an existing 6" clay sewer line and 6" water main along both sides of the new drainage pipe. MCM was able to complete the installation of all underground work without disruption to active utilities, successfully completing the project 30 days prior to the contractual date of substantial completion.



Alejandro Munilla, PE

I-75 GOLDEN GATE PARKWAY INTERCHANGE, Collier County, FL

Role: Field Engineer. Assisted with bridge supervision on the interchange. Coordinated construction activities, machinery equipment and material movement. Conducted field surveys.

Scope of Work: MCM self-performed the construction of three new bridges over the I-75 Canal, the widening and renovation of the existing Golden Gate Parkway Bridge, and the installation of a sound wall and two retaining walls. Approximately 2,000 ft of I-75 north bound and southbound and the existing roadway approaches to the interchange were also reconstructed. Upgrades of existing drainage system, lighting system and landscaping were also performed.

FL SR 953 (LEJEUNE) FLYOVER, Miami, FL

Role: Intern

Scope of Work: MCM self-performed work associated with the reconstruction of Le Jeune Road, between NW 36th Street and Okeechobee Road. The new construction involved replacing the existing Le Jeune Road Bridge at the Miami Canal with two at grade flat slab CIP decks on 18" pre-stressed pile and standard bents. Additionally, a new flyover bridge connecting Le Jeune Road northbound with Okeechobee Road westbound was built. MCM self-performed installation of all piling and structural work. The end approaches of the flyover are mechanically stabilized earth walls and the bridge portion is composed of structural steel tub girders.

FLAGLER STREETScape MARKETPLACE PROJECT, Miami, FL

Role: Intern

Scope of Work: The work consisted of milling and resurfacing Flagler Street from NW 2nd Avenue to Biscayne Blvd., the two-way conversion of the roadway including traffic light modifications, signage, pavement marking and striping, drainage system upgrades, and streetscape improvements that consisted of paver installation, new decorative street lighting, ADA ramps and landscaping.

GOLDEN GATE PARKWAY OVERPASS, Naples, FL

Role: Intern

Scope of Work: The work consisted of a 517' long bridge, with one of the longest tub girder spans in the State of Florida, and 300' of double barrel box culvert to re-divert a SFWMD Canal. In addition, two miles of Golden Gate Parkway and its associated drainage were reconstructed. This project also included the relocation of 800 feet of an active 36" raw water main.

EMPLOYMENT HISTORY

MCM, Miami, FL, Civil Area Manager, 2011 to Present

FDOT - District 5, Brevard County, FL, Project Administrator, 2010-2011

FDOT - District 5, Deland/Orlando/Cocoa Beach, FL, PE Trainee Program, 2008-2010

MCM, Miami, FL, Manager/Estimator, Summer 2006

Camp, Dresser & McKee, Miami, FL, Assistant Engineer, Summer 2005

MCM, Naples, FL, Field Engineer, Summer 2004

Construction Experience

14 Years

Education

B.S. in Civil Engineering,
Florida State University
2008

Areas of Expertise

Bridge
Roadway
Heavy Civil
Municipal

Licensing/**Certifications/Training**

Registered Professional
Engineer,
FL#76048

Advanced M.O.T.

CTQP Asphalt Paving Level
1&2

Nuclear Gauge Safety
Certified

USACE Construction
Management

SWPPP Inspector

OSHA 30-Hour

Confined Spaces Training

Qualified Rigger

Micro station

CTQP Pile Driving Inspector

CTQP Earthwork Inspector
Level 1

Excavation Competent
Person

Affiliations

FDOT PE Trainee
Engineer Contractor
Association of South FI (VP)

Professional Profile Summary

Alejandro Munilla is a proactive, results-oriented Director of Civil Operations with 14 years of comprehensive experience in complex construction projects in the heavy civil, municipal, bridge and roadway market sectors. Alex is a graduate of Florida State University and is a registered professional engineer. His construction expertise comes from a variety of positions beginning as a field engineer, to the senior position of Chief Operating Officer. Mr. Munilla's experience includes estimating; CPM scheduling and analysis; project management; negotiation; and corporate P/L responsibilities. He provides overall management, direction, and administration, including serving as a liaison to the Owner on all civil construction projects; he monitors overall construction activities, and establishes project objectives, policies, procedures and performance standards on all civil construction projects.

Project Experience Summary**HEFT II- E8N20** , Miami, FL**Cost:** \$55,032,573**Completion Date:** 02/2021**Role:** Operations Manager

Scope of Work: This project consisted of widening the HEFT mainline between SW 72nd Street & SW 40th Street to two express lanes and three general purpose lanes in each direction; and improvements to the mainline alignment between SW 56th street & Bird Road to increase the design speed. The widening of mainline HEFT involved the widening of four pairs of bridges. In addition, a replacement northbound exit ramp to SW 117th Avenue was constructed. Furthermore, the existing toll facilities were replaced with a new All Electronic Toll Gantry Structure. Bird Road was widened by one lane and SW 117th Avenue was reconfigured to make Frontage Road a one way street with limited access.

E4S38 – FDOT A1A BRIDGE REHABILITATION, Port St. Lucie, FI**Cost:** \$9,962,506.78**Completion Date:** 12/2019**Role:** Operations Manager

Scope of Work: The Improvements under this contract consist of bridge rehabilitation (Peter J. Cobb Memorial Bridge, bridge No. 940094) including scour protection, rubble riprap, gabions, bedding stone, pile repairs, fender system and spalled/delaminated concrete repairs, sidewalk, driveways, fencing, pedestrian/bicycle railing, replacing the existing Observation Walks, and Observation Walk lighting along State Road A1A for 0.585 miles over the Intracoastal Waterway in St. Lucie County. The project included the installation of approximately 1,954 LF of prestressed beams and 7,027 LF of 18" Piling.

T4433 SR 842 BROWARD BLVD., Fort Lauderdale, FL**Cost:** \$16,224,276.82**Completion Date:** 05/2019**Role:** Civil Area Manager

Scope of Work: T4433 SR 842 Broward Blvd. is a \$16M improvements project that consisted of construction of a temporary ACROW bridge to allowed construction of the new bridge replacement (existing North Fork River bridges No. 860284 and No. 860063 - replaced by proposed bridge No. 860675), and also including bridge deck grooving and re-planning, retaining walls, gravity walls, bulkheads, riprap, structures monitoring, earthwork, milling and resurfacing, widening, drainage improvements, fencing, landscaping, signing and pavement markings, traffic monitoring sites, overhead sign structures, lighting install, ITS / fiber optic systems, signalization, utility adjustments and Utility Work by Highway Contractor Agreement (UWHCA) along the road described as: SR 842 (Broward Blvd.), From NW 15th Ave. Easterly 1.562 Miles To SR 5 (US 1/Federal Hwy.).

LAKESIDE RANCH STORMWATER TREATMENT AREA SOUTH PHASE II, Martin County, FL**Cost:** \$34,636,700**Completion Date:** 2018**Role:** Civil Area Manager

Scope of Work: The purpose of Lakeside Ranch STA is to treat water in order to reduce phosphorus loading to Lake Okeechobee and the Everglades. It included the construction of five treatment cells south of the Preservation Area, comprising of approximately 30,328 lineal feet of perimeter levees and 17,442 lineal feet of interior levees; a Triple Box Structure at the Outlet Canal, and a total of 9 water control structures to control the water elevations on the 2,700-acre parcel of land.

STA 1W EXPANSION, West Palm Beach, FL**Cost:** \$2,375,000**Completion Date:** 08/2017**Role:** Civil Area Manager

Scope of Work: The objective of the corrective action inversion is to reduce the site-wide copper concentrations below the U.S. Fish and Wildlife Service's (Service) copper interim value of 85 milligrams per Kilogram (mg/Kg). The soil corrective action inversion work plan details the steps necessary for the successful implementation of the proposed corrective actions. The scope of work included: initial site preparation for soil inversion, pre-plowing site preparation, deep plow and shallow plow soil inversion.

SITE 1 IMPOUNDMENT, D-525N (L-40 MODIFICATION) AND MISCELLANEOUS FEATURES, Palm Beach County, FL**Cost:** \$47,778,910**Completion Date:** 08/2015**Role:** Project Manager

Scope of Work: This USACE project is part of the Comprehensive Everglades Restoration Program (CERP) and includes modifications to approximately 15,000-LF of the existing D-525N Levee. Construction activities include miscellaneous demolition, vegetation clearing and grubbing, dewatering operations using sheet pile coffer cells, borrow, screening and disposal area operations, excavation and fill placement of over 750,000 CY, installation of erosion control measures that includes the placement of 60,000 CY of soil cement, turf reinforcement mats and aquatic vegetation, installation of embankment instrumentation, construction of approximately 6-acre wildlife wetland area including the installation of 36" RCP pipe and other miscellaneous embankment construction activities.

SR 823 RED ROAD PHASE IV (W. 54TH ST TO W. 65TH ST AND W. 53RD TER TO W. 65TH ST), Hialeah, FL**Cost:** \$19,788,202**Completion Date:** 2017**Role:** Project Engineer

Scope of Work: This roadway construction project consisted of the following: reconstruction and widening of the SR 823 (NW 57th Ave) from West 54th St. to West 65th St.; implementing multiple traffic switches to allow for construction phasing; constructing a new retaining wall which is composed of concrete sheet panels and piles along the west side of NW 57th Avenue; installing twin 72" culverts along the west side of NW 57th Avenue; removing trees that conflict with the installation of new drainage structures throughout the project; installing multiple new traffic signals at street intersections; the installation of drainage, over 4,000 LF of 54" water main; driving approximately 300 concrete precast piles & panels; installation of over 2,000 LF of precast & cast-in-place bulkhead wall concrete cap; new landscaping; new project lighting; installing multiple concrete drill shafts; milling & resurfacing.

SR 823 RED ROAD PHASE III (W. 46TH ST TO W. 54TH ST), Hialeah, FL**Cost:** \$14,358,568**Completion Date:** 06/2015**Role:** Cost Engineer/Field Engineer

Scope of Work: This FDOT roadway construction project consisted of the following: Reconstruction and widening of the SR 823 (NW 57th Avenue) from West 46th Street to West 54th Street; implementing multiple traffic switches to allow for construction phasing; constructing a new retaining wall which composes of steel sheet pile panels on the west side of NW 57th Avenue; installing twin 74" culverts along the west side of NW 57th avenue, sidewalks along the east side of NW 57th Avenue; installing curb and gutter on the east side of NW 57th Avenue; widening the Little River Creek Bridge; Removing trees that conflict with the installation of new drainage structures throughout the project; Installing multiple new traffic signals at street intersections; the installation of drainage and utilities; installing a new 54" water main; Installing new landscape; installing new project lighting; installing multiple concrete drill shafts; milling & resurfacing.

SR 823 RED ROAD PHASE II (W. 23RD ST TO W. 46TH ST), Hialeah, FL**Cost:** \$23,648,648**Completion Date:** 09/2015**Role:** Cost Engineer/Field Engineer

Scope of Work: This roadway construction project consisted of the following: reconstruction and widening of SR 823 (NW 57th Avenue) from West 23rd Street to West 46th Street; implementation of multiple traffic switches; construction of a channel and regulate excavators, embankment, stabilized subgrade, prepared soil layer, base and rip rap slope stabilization, new bulkhead wall (composed of concrete sheet panels and piles) along the west side of NW 57th Avenue; installation of multiple twin 84" and 72" culverts along the west side of NW 57th Avenue, sidewalks along the east side of NW 57th Avenue; installing curb and gutter on the east side of NW 57th Avenue; removal of trees that conflict with the installation of new drainage structures throughout the project; installation of multiple new traffic signals at street intersections; coordination and installation of drainage and utilities, including 36" Water Main and Force Main; driving over 800 concrete precast piles; installing new landscape; installing new project lighting; installing multiple concrete drill shafts; milling and resurfacing. Earthwork and stabilization items exceed \$2.27M in value.

HEFT AET PHASE 1 & PHASE 2, Miami-Dade County, FL**Cost:** \$33,019,000**Completion Date:** 2012**Role:** Field Engineer

Scope of Work: The proposed improvements on this project include the conversion of the southern HEFT to an All Electronic (AET) collection system. The work will include modifications to the Florida's Turnpike Enterprise Homestead and Bird Road mainline toll plazas and 17 ramp toll plazas. The overall AET conversion scope includes: demolition, grading, paving, maintenance of traffic (MOT), signing and pavement markings, lighting modifications, drainage modifications, intelligent transportation system (ITS) preservation, toll plaza fiber optic connections, traffic signal modification, toll equipment structure installation, permitting, and architectural (including structural, mechanical, electrical, and plumbing). The proposed improvements also include the construction of auxiliary lanes from north of SW 40th Street to south of SR 836/Dolphin Expressway. The overall auxiliary lanes construction scope includes: roadway construction, paving, MOT, structural modifications, signing and pavement markings, lighting modifications, drainage modifications, and intelligent transportation system (ITS) preservation.

414959-1 US-192 RELIEF BRIDGES, Brevard County**Cost:** \$9,580,000**Completion Date:** 09/2011

Role: Assistant FDOT Project Administrator. Coordinated with the Inspectors. Assisted with Construction Support Specialist duties such as putting together project Estimates, S.A.'s, Work Orders, Change Orders, and Claims.

Scope of Work: Included construction of a Pedestrian bridge and the replacement of 3 US 192 Bridges over the Indian River. M.O.T. phasing.

405506-3 I-95 WIDENING, Brevard County**Cost:** \$20,500,000**Completion Date:** 03/2011

Role: Assistant FDOT Project Administrator. Coordinated with the Inspectors. Assisted with Construction Support Specialist duties such as putting together project Estimates, S.A.'s, Work Orders, Change Orders, and Claims.

Scope of Work: Included widening from 4 lanes to 6 lanes from SR 514 to N. of CR 516 (MP 12.415-16.588), resurfacing existing pavement, drainage work, structural work to I-95 bridges and lighting work. ARRA project.

I-95 MANAGED EXPRESS LANES, Miami, FL**Cost:** \$138,630,519**Completion Date:** 2010**Role:** Field Engineer

Scope of Work: Project entails reconstruction of the I-95/I-195 flyovers, widening of six bridges on mainline I-95, and substructure modifications of the HOV Connector ramp bridge from SR 112 to I-95. Reconstruction of the I-95 flyovers consisted of strengthening of existing substructure through the use of a combination of micro piles, pipe pile, and pre-stressed concrete pile. The six bridge widening consisted of pre-stressed concrete and pipe pile foundations. The modification to the HOV Connector required removal and new construction of the substructure in order to accommodate the widening of I-95. The new foundations were a combination of concrete and pipe piling. The substructure was Class IV mass concrete which included horizontal and vertical post tensioning of the piers and caps.

2392032 SR-50 WIDENING FROM SR 436 TO SR 417, Orlando, FL**Cost:** \$66,000,000**Completion Date:** 2010**Role:** P.E. Trainee Construction Phase. Worked with CEI consultant group Cardno TBE. Assisted with daily field activities and plans overview.**Scope of Work:** Included widening SR 50 from 4 to 6 lanes for approximately 3 miles. An interchange that included a fly over, MSE walls, drainage work, and resurfacing of existing pavement.**MIAMI BEACH SOUTH POINTE PARK, Miami Beach, FL****Cost:** \$23,226,005**Completion Date:** 2009**Role:** Field Engineer**Scope of Work:** This project consisted of the renovation of a 19-acre park, including extensive site work, underground utilities, construction of new walk along the coastline, parking lot renovation and addition, construction of a new Pavilion, Playground and other Accessory Buildings. The scope of work also included the construction of a 13' High Serpentine Land form, water features, and improvements to Smith & Wollensky Restaurant Patio & Entrance. Additionally, this project is located in an environmentally sensitive area, which includes dealing with endangered species and delicate environments like Native Dunes. Extensive Pruning, Replanting and new Landscaping & Irrigation Construction are also a main component of this job.**MIAMI INTERMODAL CENTER NW 21ST STREET IMPROVEMENTS, Miami, FL****Cost:** \$5,316,557**Completion Date:** 2009**Role:** Intern**Scope of Work:** Roadway reconstruction of NW 21st Street from East of NW 42nd Avenue to NW 37th Avenue. Scope included storm water drainage installation, requiring tie-in to an existing 60" RCP outfall by introducing a 20TN Box Culvert Control Structure. Installation of this new drainage system required MCM to work around numerous existing utilities and adjust water & gas valve elevations due to roadway grade changes. Additionally, drainage & lighting conduit crossings on the local roadways required MCM to relocate existing utilities that were in conflict with roadway reconstruction. One of the most intricate and difficult task of the project was installing a new 42" drainage pipe above an active existing FPL duct bank, below an existing 3" gas line with an existing 6" clay sewer line and 6" water main along both sides of the new drainage pipe. MCM was able to complete the installation of all underground work without disruption to active utilities, successfully completing the project 30 days prior to the contractual date of substantial completion.**I-75 GOLDEN GATE PARKWAY INTERCHANGE, Collier County, FL****Cost:** \$27,100,367**Completion Date:** 09/2005**Role:** Field Engineer. Assisted with bridge supervision on the interchange. Coordinated construction activities, machinery equipment and material movement. Conducted field surveys.**Scope of Work:** MCM self-performed the construction of three new bridges over the I-75 Canal, the widening and renovation of the existing Golden Gate Parkway Bridge, and the installation of a sound wall and two retaining walls. Approximately 2,000 ft of I-75 north bound and southbound and the existing roadway approaches to the interchange were also reconstructed. Upgrades of existing drainage system, lighting system and landscaping were also performed.**FL SR 953 (LEJEUNE) FLYOVER, Miami, FL****Cost:** \$17,858,520**Completion Date:** 11/2004**Role:** Intern**Scope of Work:** MCM self-performed work associated with the reconstruction of Le Jeune Road, between NW 36th Street and Okeechobee Road. The new construction involved replacing the existing Le Jeune Road Bridge at the Miami Canal with two at grade flat slab CIP decks on 18" pre-stressed pile and standard bents. Additionally, a new flyover bridge connecting Le Jeune Road northbound with Okeechobee Road westbound was built. MCM self-performed installation of all piling and structural work. The end approaches of the flyover are mechanically stabilized earth walls and the bridge portion is composed of structural steel tub girders.

FLAGLER STREETScape MARKETPLACE PROJECT, Miami, FL

Cost: \$11,783,824

Completion Date: 01/2007

Role: Intern

Scope of Work: The work consisted of milling and resurfacing Flagler Street from NW 2nd Avenue to Biscayne Blvd., the two-way conversion of the roadway including traffic light modifications, signage, pavement marking and striping, drainage system upgrades, and streetscape improvements that consisted of paver installation, new decorative street lighting, ADA ramps and landscaping.

GOLDEN GATE PARKWAY OVERPASS, Naples, FL

Cost: \$39,229,557

Completion Date: 08/2007

Role: Intern

Scope of Work: The work consisted of a 517' long bridge, with one of the longest tub girder spans in the State of Florida, and 300' of double barrel box culvert to re-divert a SFWMD Canal. In addition, two miles of Golden Gate Parkway and its associated drainage were reconstructed. This project also included the relocation of 800 feet of an active 36" raw water main.