

RFQ 2015-016 Design/Build Criteria Package for 24-Inch Force Main and 30-Inch Water Main Canal Crossing



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1. Transmittal Letter

September 9, 2015

Office of the Purchasing Division
City of Margate, City Hall
Finance Department, Second Floor
5790 Margate Blvd., Margate, FL 33063

Re: RFQ 2015-016 Design/Build Criteria Package for 24-Inch Force Main and 30-Inch Water Main Canal Crossing

Dear Selection Committee,

The Southern Underground Industries (SUI) and Chen Moore and Associates (CMA) Team is pleased to submit our response to RFQ No. 2015-016. CMA is a civil engineering/landscape architecture firm founded in 1986 with six offices in Florida with extensive experience in utility design, civil engineering, construction management, transportation planning and engineering, stormwater master planning, government permitting and landscape architecture for municipal clients. We are a certified M/SBE in the state of Florida, with numerous local minority and small business certifications including with Broward County. The scope of work for this project will be performed by our corporate headquarters office, located in Fort Lauderdale.


With over 28 years of municipal engineering experience, CMA has the local knowledge and expertise to meet your unique needs as well as the commitment to perform the work within the anticipated time period. We have reviewed the request for qualifications and will be able to address all items in the scope of services.

Southern Underground Industries prides itself in providing the highest quality service and product to our municipal clients. The founder of SUI, **Belseri Comerford**, has been working in the South Florida underground business since 1984. The co-owner of SUI and Project Manager for this project, **Juan Barreneche, P.E.** has extensive design-build experience, specifically for aerial utility crossings. Almost all of Mr. Barreneche's experience has been on design-build projects where his engineering background has allowed him to collaborate smoothly with fellow engineering team members.

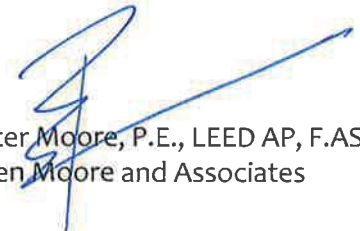
CMA has assembled a full array of specialized staff and subconsultants to meet and exceed the City's needs under the proposed contract. CMA is very familiar with the project services required and is committing the necessary resources to perform all project components. The project engineer will be Suzanne Dombrowski, P.E. With 10 years of professional experience, Ms. Dombrowski has successfully led many multi-disciplinary teams with the project management skills necessary to communicate with clients, organize teams and provide technical results on time and within budget. She will be the main point of contact and can always be reached at 954.730.0707. Our subconsultants are as follows: Professional Service Industries, Inc. (PSI) for materials testing; Stoner and Associates, Inc. for surveying; United Engineering Inc. for structural engineering; NV5 for geotechnical engineering; Filippelli Surveying, Inc. for Layout and Asbuilts; and Centerline Directional Drilling Service, Inc. for Horizontal Directional Drill (HDD).

CMA believes that this team is uniquely qualified to perform the civil engineering and construction administration services for the City. Since CMA and SUI are small, local firms, we treat our clients as a high priority and will provide prompt and responsive service. The SUI/CMA team has past experience with all the items of work specified in the scope of services, and has successfully completed similar projects for other municipalities. The team's understanding of the project components, as well as the familiarity with the City's water and wastewater system, will provide the highest, most cost effective product. We have worked with the City of Margate in the past and look forward to working with the City again.

Respectfully,



Juan Barreneche, P.E., Vice President/Project Manager
Southern Underground Industries



Peter Moore, P.E., LEED AP, F.ASCE
Chen Moore and Associates

Corporate History

The Southern Underground Industries (SUI) and Chen Moore and Associates (CMA) Team is pleased to submit our response to RFQ 2015-016. CMA is a civil engineering/landscape architecture firm founded in 1986 with six offices in Florida with extensive experience in civil engineering, construction management, transportation planning and engineering, stormwater master planning, government permitting and landscape architecture for municipal clients. We are a certified M/SBE in the state of Florida, with numerous local minority and small business certifications including with Broward County. The scope of work for this project will be performed by our Corporate Headquarters office, located in Fort Lauderdale.

With over 28 years of municipal engineering experience, CMA has the local knowledge and expertise to meet your unique needs as well as the commitment to perform the work within the anticipated time period. We have reviewed the request for qualifications and will be able to address all items in the scope of services.

Southern Underground Industries prides itself in providing the highest quality service and product to our municipal clients. The founder of SUI, Belseri Comerford, has been working in the South Florida underground business since 1984. The co-owner of SUI and Project Manager for this project, Juan Barreneche, P.E. has extensive Design-Build experience, specifically for Horizontal Directional Drills (HDD). He has personally overseen over 7 large diameter drills in the last 10 years, most recently a 4,000 LF crossing of a 20" Water Main across the Intercoastal Waterway at Key Biscayne, FL. Almost all of Mr. Barreneche's experience has been on Design-Build Projects where his engineering background has allowed him to collaborate smoothly with fellow Engineering team members.

Centerline Directional Drilling Service, our HDD subcontractor, has extensive experience drilling throughout Florida. We will be taking full advantages of utilizing his experience with different size drill rigs to determine the most economical lengths of the directional drill segments of pipe. On key element to this project will also be the performance of our Public Information Subconsultant, Infinite Source Communications. Their experience staff will ensure that all stakeholders are fully considered during the design process to make sure that this project is successful both in the City's eyes and their constituents.

CMA has assembled a full array of specialized staff and subconsultants to meet and exceed the City's needs under the proposed contract. CMA is very familiar with the project services required and is committing the necessary resources to perform all project components. The Project Engineer will be Suzanne Dombrowski, P.E. with 10 years of professional experience, Suzanne has successfully led many multi-disciplinary teams with the project management skills necessary to communicate with clients, organize teams and provide technical results on time and within budget. She will be the main point of contact and can always

be reached at 954-730-0707. Our subconsultants are as follows: Professional Service Industries, Inc. (materials testing); Stoner and Associates (survey); United Engineering Inc. (structural engineering); NV5 (geotechnical engineering); Filippelli Surveying (layout and asbuilts) and Centerline Drilling Directional Service, Inc. (horizontal directional drill).

CMA believes that this team is uniquely qualified to perform the civil engineering and construction administration services for the City. Since CMA and SUI are small, local firms, we treat our clients as a high priority and will provide prompt and responsive service. Both SUI and CMA have proven reputations with the City for responsiveness and quality work, and have completed projects for the City that are directly applicable to the scope of work.

Corporate Qualifications

Southern Underground Industries

Southern Underground Industries is a growing underground contractor in the South Florida Area. Our key members have extensive experience in Design-Build Projects, Horizontal Directional Drills, Water, Sewer and Drainage Installations, Pump Stations, and we are very familiar with dewatering in South Florida's varying ground conditions. We have recently added key pipe foreman with extensive experience with large diameter piping installations throughout Florida. Our primary focus is to provide a comprehensive service to our municipal clients to ensure cost-effective solutions in a timely manner. Southern Underground Industries is a Florida based S-Corporation.

Key Personnel	Ownership %
Belseri Comerford	50%
Juan Barreneche, P.E.	50%

This project will be coordinated from our office located at:

3575 NW South River Drive
Miami, FL 33142
Telephone: (954) 650-4699

Chen Moore and Associates

Chen Moore and Associates is a multi-discipline consulting firm that is a Florida State and locally certified small business enterprise firm with offices in Broward, Miami-Dade, Palm Beach, Martin, Orange and Alachua Counties. Founded in 1986, Chen Moore and Associates specializes in civil and environmental engineering; landscape architecture; planning; GIS analysis and mapping; transportation, streetscaping and traffic improvements; construction administration; wastewater collection, transmission, treatment, reuse and disposal; pump station design and rehabilitation; water supply, treatment, and distribution; stormwater system design and master plans; and modeling and permitting of drainage, water distribution, and sewer collection. Dr. Chen founded Chen Moore and Associates with a belief that relationships are the key to the planning, design and construction of successful projects. The firm is committed to providing responsive quality services while meeting the schedules and specific project needs of our clients. Chen Moore and Associates is a Florida based S-corporation.

Ownership

Key Personnel	Ownership %
Dr. Ben Chen, P.E., BCEE	52%
Peter Moore, P.E., LEED AP	31%
Jason McClair, P.E., CFM, LEED AP	6%
Safiya Brea, P.E., LEED AP	2%
Jose Acosta, P.E.	2%



Location of CMA Headquarters

This project will be coordinated from our headquarters, located at:
500 West Cypress Creek Road, Suite 630
Fort Lauderdale, FL 33309
Telephone: (954) 730-0707
Fax: (954) 730-2030



Staff Qualifications

Southern Underground Industries

Expertise of Staff Members/Experience/Qualifications

Southern Underground Industries specializes in civil infrastructure installation in the South Florida area. Our goal is to approach each project with a value engineering mindset to first determine if there are any cost savings we can provide our clients. We can do this because we have an on-staff Professional Engineer with over 10 years of construction experience. Often time, schedules can also be reduced or delays avoided by offering substitute materials or methods, which may have shorter lead times.

SUI is a small business with a big business mindset. Our key employees have all come from larger utility companies who worked on large diameter and high dollar projects. We bring this vast experience on technically challenging work, but with a small business focus on the client. We understand that each of our clients value the time and effort they put into the projects they are managing, so we take a hands-on approach and often work side by side with municipal staff to ensure that the project stays on time and on budget.

Relevant experience for Southern Underground Industries includes the following projects: Reclaimed Water Main – Area 11A & 11B for Delray Beach, City-Wide High Tide Mitigation Project for Miami Beach, Pump Station 8 Force Main and Gravity Sewer for the Town of Davie, Midway Pump Station for Miami-Dade PWWD, Design-Build Services for Rehabilitation of West Bridge and Bear Cut Bridge – Water Main Relocations for MDWSD (Juan Barreneche personal experience). In addition, please review our resumes for additional design-build and horizontal directional drill experience.

Functions to be Performed

As Project Manager, Juan Barreneche, P.E. will lead the team in preparing and updating of the Progress Schedule, close coordination with CMA staff to ensure engineering deliverables are provided in a timely manner, assisting with permit acquisition, coordinating between all subcontractors and pipe laying crews during construction, and ensuring proper safety protocols are met.

As Field Superintendent, Belseri Comerford will be responsible for coordinating material procurement and deliveries, managing subcontractors an field crews and ensuring a proper sequence is followed, assessing and fulfilling equipment needs onsite, and providing constructability insight during design.

As Pipe Foremen, Jose Cacique and David Caique will lead our pipe laying crews during the open cut portion of work. They will also assist with the handling and staging of the HDPE product pipe for the driller. They will be responsible for the testing of all pipelines. Most importantly, they will be our team's front line to ensuring that the work zones are maintained in a safe condition and that any members of the public are not unnecessarily impacted by construction.



Chen Moore and Associates

Expertise of Staff Members/Experience/Qualifications

Chen Moore and Associates brings to the City a vast amount of municipal and government professional engineering and management services experience in South Florida and specifically in Broward County. They believe it is critical that the consultant for these services for the City of Margate is knowledgeable about working in Broward County and has experience with municipal clients. With over 28 years of municipal engineering experience CMA and their team members has the local knowledge and expertise to meet the City's needs for the scope of work required. CMA also has a comprehensive understanding of the City's water and sewer systems, from past modeling experience. This system-wide knowledge is coupled with a working knowledge of the way the City functions during both design and construction phases of projects. In addition, their staff combined for this contract brings over 100 years of experience in civil engineering and construction administration services.

Relevant experience for Chen Moore and Associates includes the following projects: City of Margate 18th Street Force Main Improvements, City of Margate Aerial Crossings Designs, Broadview Park NIP 20" Water Main Extension, Improvements to Forcemain Water Crossing Intercoastal Waterway at Hillsboro Boulevard, Turnpike 48" Force Main Relocation and 72" Force Main NW/NE 159th Street Between NW 17th Ave & NE 10th Ave.

Functions to be Performed

As principal-in-charge **Peter Moore, P.E., LEED AP, F.ASCE** will provide QA/QC, assure client satisfaction, provide technical supervision and assist with any public or government coordination. In addition he will coordinate contract negotiations; resource allocation; and act as a liaison with the City and elected officials.

As project engineer **Suzanne Dombrowski, P.E.** will manage the specific project tasks, the design schedule, members of the team and permitting coordination as well as day-to-day design activities. She will handle coordination between design disciplines, design resource allocation and document control.

As senior civil engineer **Paula Fonseca, P.E.** will be responsible for developing engineering reports, construction documents and technical specifications. As construction administrators **Marcus Austin, G.C., LEED AP** and **Derrick Smith, LEED AP, CFM** will serve as overall construction managers that include day-to-day construction monitoring and oversight, management of testing programs and management of construction records.

Professional Service Industries, Inc. (PSI)

Expertise of Staff Members/Experience/Qualifications

Professional Service Industries, Inc. (PSI) is a nationally recognized leading engineering consultant employing nearly 2,000 professional engineers, materials testing inspectors, drilling, field and laboratory technicians, and support personnel in 100 offices across the country. PSI was founded in 1961 in Champaign, Illinois as A&H Materials Testing, and incorporated as Professional Service Industries, Inc. in 1972. Established as a legal entity in Florida in 1975, they have a team of more than 300 professionals located within 10 offices throughout the state. PSI's success is based on their commitment to providing top-quality services to their clients and to maintaining a highly qualified staff of professionals.

Functions to be Performed

PSI will provide materials testing services that include site suitability studies, drilling services (subsurface exploration), foundation design (i.e. shallow foundations, driven piles, drilled shafts, auger cast piles, mat foundations), seasonal high water determinations, groundwater exploration and modeling (i.e. stormwater pond recovery, seepage evaluations, underdrain design, drawdown analyses), retaining wall analyses and design, pavement design and preparation of earthwork specifications.

Morgan Dickinson, P.E. will serve as senior technical support for PSI. Mr. Dickinson has over 34 years of experience in Geotechnical Engineering.

Dhuruva Badri, P.E. will serve as the point of contact for the geotechnical task assignments. Mr. Badri has 12 years of geotechnical engineering experience in South Florida and currently serves as the Geotechnical Department Manager as well as Project Manager for PSI's contracts with FDOT.

Stoner and Associates, Inc.

Expertise of Staff Members/Experience/Qualifications

Stoner and Associates, Inc. was founded in September of 1988 by James D. Stoner, P.S.M. Their mission is to provide quality land surveying services, while utilizing the latest technology and techniques. Stoner and Associates, Inc. is a professional land surveying consultant to numerous municipalities, including, Broward County Aviation Department, South Florida Water Management District, Broward College, Town of Davie, City of Fort Lauderdale, and City of Sunrise. The firm has performed land surveys for most municipalities and numerous governmental agencies and private clients within the Tri-County area.

Functions to be Performed

Stoner and Associates, Inc. will provide surveying services during design that include ALTA/ACSM Land title surveys, aviation surveys, boundary surveys, construction layout surveys, engineering design surveys, environmental support surveys, FDOT surveys, platting, specific purpose surveys, topographic surveys and utility surveys. Technology utilized by their staff include real time GPS, electronic data collection, electronic total stations, autocad land development and microstation/CAiCE.

James Stoner, PSM will serve as principal surveyor and oversee all surveying services for the contract. He will work in tandem with Richard Crawford, PSM who will serve as project manager for the contract. Mr. Crawford will process survey data and prepare survey drawings.

United Engineering, Inc

Expertise of Staff Members/Experience/Qualifications

United Engineering, Inc. provides structural design services that include New Construction, Expert Witness, Peer Review, Value Engineering, Forensic Investigation, Rehabilitation/Repair, and Construction Observation. Founded in 2011, the firm provides these services across several market sectors that include governmental, commercial, institutional, mixed-use, residential, healthcare, specialty structures, and sports facilities. They also have experience with several delivery methods of construction such design-build, GMP, CM at risk, and traditional design-bid-build.

Functions to be Performed

United Engineering, Inc. will provide structural engineering.

Expertise of Staff Members/Experience/Qualifications

NV5 was founded 65 years ago and is a leading provider of professional and technical engineering and consulting solutions to public and private sector clients in the infrastructure, construction, real estate and environmental markets. The company primarily focuses on five business service verticals: construction quality assurance, infrastructure engineering, energy services, program management and environmental services. NV5 Holdings operates 20 offices in Florida, California, Colorado, Utah and New Jersey and is headquartered in Hollywood, Florida.

Functions to be Performed

NV5 will provide geotechnical engineering and pile load testing, if necessary.

Filippelli Surveying, Inc.

Expertise of Staff Members/Experience/Qualifications

Filippelli Surveying, Inc. was founded by Rafael Filippelli, Registered Surveyor, who has over 35 years of experience in land and construction surveying. He is responsible for multi-million dollar projects each year in construction survey and layout of: sanitary sewers, force mains, life stations, water mains, drainage, directional drills, and roadways. His experience includes layout of subdivisions and neighborhood improvement projects.

Functions to be Performed

Filippelli Surveying, Inc. will provide layout and asbuilts.

Centerline Directional Drilling Service, Inc.

Expertise of Staff Members/Experience/Qualifications

Centerline Directional Drilling Service, Inc. has extensive experience in performing horizontal directional drills of all sizes for telecommunications and utility clients. As per their equipment list, they have a stable of drills that can perform both small and large bores. As per the attached project list, Centerline demonstrates that they have worked for a variety of clients and can handle any HDD challenge.

Functions to be Performed

Staff of Centerline Directional Drilling Service will provide horizontal directional drilling services.

As HDD Project Manager, Lauro Acevedo will be responsible for ensuring that the equipment required for each bore is properly sized to minimize impact. He will be responsible for scheduling and coordinating his crew and drilling surveyor to ensure the successful completion of the pilot bore, reams, and pipe pullback. He will also be responsible for ensuring that the bentonite mud mixture is kept at optimal performance and that spoils are being appropriately removed.

As HDD Drill Operator, Rodrigo Rojas will be responsible for maintaining close communication with the drilling surveyor to ensure that each rod installed is following the appropriate grade and alignment. He will make adjustments to pushing, torque and pulling forces by the machine to ensure that they stay within the prescribed tolerances.

Past Experience

The team members have a unique past experience working on Design-Build projects together and apart. The Team's Project Manager, Juan Barreneche, P.E. managed a Design-Build project designed by Chen and Associates for Broward County in 2006. More importantly, Mr. Barreneche gained much of his engineering experience while working as an Associate Engineer at Chen and Associates. Due to this close relationship, our Team and the City, benefits from a level of comfort that has been developed between our Design-Build Team members that other teams may not have.

Our team members are also uniquely qualified for this project based on our extensive experience with the City's water and sewer systems.

The Team has completed numerous project relating to the City's Scope of Work. However, the following is a representative list of the most relevant projects. We are confident that the following client references will provide insight into our capabilities for work similar to this assignment.

Reclaimed Water Main - Area 11A & 11B .

City of Delray Beach, FL

Estimated Completion Date

2009-2011

Fee

\$800,000(11A), \$1,200,000 (11B)

Client

City of Delray Beach
434 S Swinton Avenue
Delray Beach, FL 33444
Steve Dellaquila
(561) 504-0321
Dellaquila@mydelraybeach.com

Southern Underground Utilities

Area 11A consisted of the installation of 18" Reclaimed Water Main open cut and directional drill in downtown Delray Beach. There were a total of 3 directional drill of 18" pipe totaling over 3,000 LF. Project included approx. 1,000 LF of 18" open cut as well in a business district.

Area 11B consisted of Installation of over 8,000 LF of 4", 6", 10" Reclaimed Water Mains and RWM Services throughout residential neighborhoods. Project included roadway restoration in an urban environment.



City-Wide High Tide Mitigation Project Miami Beach, FL

Estimated Completion Date

2014-2015

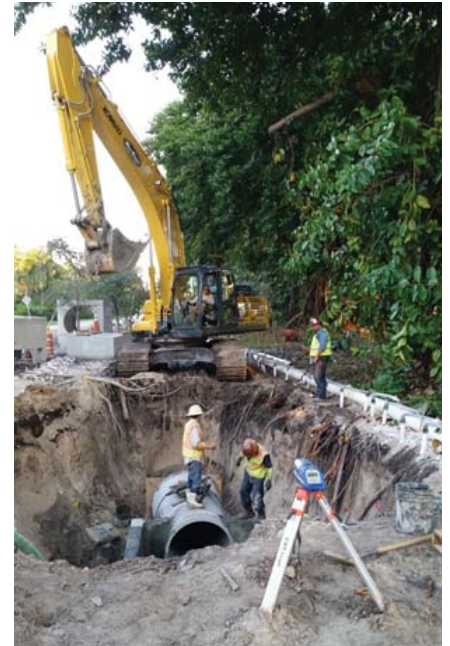
Fee

\$1,748,000

Client

City of Miami Beach, FL
1700 Convention Center Drive
Miami Beach, FL 33139
Bruce Mowry, P.E., City Engineer
(305) 673-7080
BruceMowry@miamibeachfl.gov

Project Included Installation of 11 large drainage structures over existing outfall piping and the installation of approx. 100 inline backflow prevention valves on the City's stormwater outfalls throughout the City to reduce the effects of tidal flooding. Project also includes the installation of 400 LF of 42" RCP Drainage Piping, a 24" stormwater forcemain repair, and insertion of 16" Butterfly Valves.



Midway Pump Station Miami Beach, FL

Estimated Completion Date

2010-2011

Fee

\$2,900,000

Client

Miami-Dade County Public Works,
FL
111 NW 1st Street, Suite 1510,
Miami, FL 33425
Luis Baldo
(305) 282-0281
baldo@miamidade.gov

Installation of stormwater structures and pipe from 18" to 42" in high water table. Installed double 24" DIP FM inside 36" HDPE casing pipe via directional drill under 826 Expressway. Work required that canal be diked & bypassed with 4-36" pipes for a subaqueous crossing.



Pump Station 8 Force Main and Gravity Sewer Improvements

Town of Davie, FL

Estimated Completion Date

2012-2013

Fee

\$200,000

Client

Town of Davie, FL
6591 Orange Drive
Davie, FL 33314
Jeanne Akerblom
(954) 224-4437

Project Description: Installation of 600 LF of 8" , 400 LF of 16" , and 2000 LF of 24" Force and a 24" Gravity Sewer approximately 12-14 ft deep to connect to Pump Station #8.



**Design-Build Services for
the Rehabilitation of Bridge
Nos. 874541 (West Bridge)
and 874544 (Bear Cut
Bridge) on the Rickenbacker
Causeway - Water Main
Relocation Portion of Work
Miami-Dade County, FL**

Estimated Completion Date

2014

Fee

\$1,860,000

Client

Miami-Dade County (WASD)
111 NW 1st Street, 16th floor
Miami, Florida 33128
Scott Aguiar, Inspector
(786) 295-4002
SAAGU@miamidade.gov

Project Description: The rehabilitation of these 2 bridges leading into Key Biscayne was critical project with a very tight timeframe that Kiewit South completed in 2014, just in time for the annual tennis tournament on the island. A critical component of getting these bridges replaced was the relocation of the existing 20" water which hung under the bridge.

The design-build solution consisted of the installation of 2 - 20" directional bores across the West Bridge Channel (1,300 LF Drill) and the Bear Cut Channel (3,000 LF) and connection of these lines so that the old bridge pipe could be abandoned during bridge demolition.



S. Andrews Avenue & 17th Street Large Water Main Replacement Project

Project Included Installation of approx. 350 LF of 20-Inch DIP Water Main on NE 17th Street, just East of Andrews Ave. The project involved the installation of two 18-inch linestops to abandon the existing 20-inch main, asphalt patch, milling & resurfacing.

Estimated Completion Date

2015

Fee

\$351,622

Client

City of Fort Lauderdale Water and
Wastewater CIP
100 North Andrews, Suite 500
Fort Lauderdale, FL 33301
Jean Examond, Project Manager
(561) 577-5427



Backflow & Bypass Domestic Water Project

Project Included Installation of eight 8" Backflow Preventor Assemblies and one 4" Backflow Preventor Assembly utilizing 8" linestops with 8" bypass lines to avoid shutting down service to this critical hospital facility.

Estimated Completion Date

2015

Fee

\$350,000

Client

Jackson Memorial Hospital .
1500 NW 12th Avenue, Suite 814 .
Miami, FL 33136
Francisco Caldera, Project
Manager
(786) 338-5096



Roadway Improvements Various Project Areas

Project Drainage Structure & Piping Installation to 24" diameter with full roadway reconstruction including curb & gutter & sidewalks.

Estimated Completion Date

2015

Fee

\$650,253

Client

City of Miami Beach Public Works
Department
1700 Convention Center Drive .
Miami Beach, FL 33139 .
Jose Rivas, P.E., Project Manager
(305) 673-7080



W 43 Street Water Main (as sub to Envirowaste

Project Included Relocation of 200 LF of 8" DIP Water Main on W 43 Street. Project Included roadway restoration in an urban environment.

Estimated Completion Date

2014

Fee

\$100,000

Client

City of Miami Beach Public Works
Department
1700 Convention Center Drive .
Miami Beach, FL 33139 .
Jose Rivas, P.E., Project Manager
(305) 673-7080



Valve Replacement Project 2013

Installation of 19 isolation gate valves (6" to 24") on the City's water main and sewer force main.

Estimated Completion Date

2014

Fee

\$300,000

Client

City of Lauderdale
5581 W. Oakland Park Blvd.
Lauderhill, FL 33313
Osmando Silangil, Project
Manager
(954) 714-1521



30-Inch Sanitary Sewer Repair on Harding Ave

Removal and Replacement of a 30-Inch Sanitary Sewer Main,
approximate 14 foot cut, including roadway restoration.

Estimated Completion Date

2014

Fee

\$150,000

Client

City of Hollywood
1621 N. 14th Ave
Hollywood, FL 33022
Jitendra Patel, P.E., Assistant
Director
(954) 967-4455



Broadview Park NIP 20" Water Main Extension Broward County, Florida

Estimated Completion Date

2010

Fee

\$586,828

Client

Broward County
Patrick MacGregor
2555 West Copans Road
Pompano Beach, FL 33069-1233
(954) 831-0904
pamacgregor@broward.org

Chen Moore and Associates

Chen Moore and Associates was responsible for the design and construction administration of the 20" Water Main Extension on SR-7 (US 441). This project is approximately 9,000 LF in length and links two previous Chen Moore and Associates projects to provide a water source for the Broadview Park Neighborhood from Broward County WTP 1A. This project involved extensive permitting and coordination with FDOT District IV as the majority of the water main falls within FDOT ROW. The permit requirement also included complex Maintenance of Traffic design. The night operations included water main installation and testing the horizontal directional drill at Broward Boulevard, while restoration and materials testing in association with FDOT inspectors occurred during the day. The project was completed on time and under budget.



Improvements to Force Main Crossing Intercoastal Waterway at Hillsboro Blvd Deerfield Beach, Florida

Estimated Completion Date

2014

Fee

\$80,834

Client

City of Deerfield Beach
Hiep Huynh, P.E.
200 Goolsby Boulevard
Deerfield Beach, FL 33442
(954) 480-4402
hhuynh@deerfield-beach.com

Chen Moore and Associates designed the Subaqueous Forcemain Crossing for the City of Deerfield Beach. The forcemain was over 500 LF long and approximately 60 feet deep with 14 inch diameter HDPE. It crosses the intercoastal waterway at Hillsboro Boulevard to replace an existing force main. The project included the design of a directional drill under the intercoastal. Extensive permitting with FDEP, USACE and FDOT, as well as bidding assistance and construction administration

services were also performed.

The project construction cost was \$426,050.00.



72" Force Main NW/NE 159th Street Between NW 17th Ave & NE 10th Ave Miami, Florida

Estimated Completion Date

2013

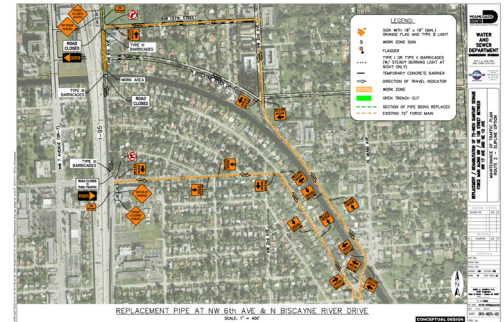
Fee

\$48,247

Client

Lockwood Andrews & Newnam
Inc
Ricardo Vieira, PE
5200 Blue Lagoon Drive, Suite
700
Miami, FL 33126
(305) 444-6454
rjvieira@lan-inc.com

As part of the LAN Team, Chen Moore prepared plans for the design build package for the rehabilitation/replacement of a 72" existing force main from NW/NE 159th Street between NW 17th Avenue and NE 10th Avenue for Miami-Dade Water and Sewer Department (WASD). CMA tasks include the following: review and collection of available aerial photography, maps and LIDAR data;



utility coordination; meetings with local agencies to acquire existing/available geotechnical data; preparation of existing condition corridor plans; preparation of rights-of-way designation plans; identification of municipal pavement repair requirements and proposed pavement resurfacing methods and limits; preparation of preliminary maintenance of traffic plan; preparation of and engineer's opinion of probable construction cost; and utility investigation/WASD as-built/repair and rehabilitation documentation review and recommendations.

CMA coordinated with FDOT and local municipalities to review existing utilities and future projects which may work concurrently with the force main rehabilitation project. The project team evaluated force main replacement and rehabilitation alternatives including different routes which could be used for a new 72" force main. CMA prepared plans and cross sections to represent these different replacement layouts. Furthermore, CMA prepared plans representing the different rehabilitation options investigated by the project team. With this initial analysis, CMA also prepared typical MOT cross sections and MOT plans to represent the impacts on traffic for the different options.

The project team evaluated the impacts of this force main rehabilitation on the existing nearby lift stations to verify the sanitary sewer system functionality throughout the construction and completion of the project. An alternative was selected and further detailed plans were prepared. CMA used LIDAR elevation data combined with survey information to generate an existing grade surface from which profile views were generated. CMA prepared plans and profiles for the selected force main rehabilitation method. These documents represented the existing pipeline, the portions to be rehabilitated by slip-lining, the portions to be rehabilitated with a cured in place pipe (CIPP), and the existing utilities which crossed the force main.

Turnpike 48" Force Main Relocation Design-Build Broward County, Florida

Estimated Completion Date
2006

Fee
\$380,969

Client
Ric-Man Construction
Juan Barreneche, P.E. (now with SUI)
2601 Wiles Road
Pompano Beach, FL 33073
(954) 650-4699
juanb@southernui.com

Chen Moore and Associates was the prime consultant of a design-build team tasked to design, permit and construct the relocation of a 48" Force Main in the Turnpike Right-of-Way. This project involved the open cut installation of approximately 5,400 LF of 48" DIP followed by the removal of the existing PCCP. Coordination activities included Florida's Turnpike Enterprise of the Florida Department of Transportation, South Florida Water Management District, the Florida Department of Environmental Protection and Broward County Water and Wastewater Services. The project schedule was an aggressive 112 days from Notice to Proceed to completion.



This project involved extensive permitting and coordination with the FDOT Turnpike as the entirety of the pipeline project fell within the Turnpike's Limited Access ROW. MOT and utility plans were permitted through the Turnpike including staging areas for pipe stringing and lay-down yards. Additionally, extensive coordination with the Turnpike Construction Office was required as this project immediately preceded a Turnpike widening project and several restoration efforts were as-built and communicated. Finally, coordination with the Turnpike environmental coordinator and their subconsultant Handex was required as the dewatering permitting operations discovered contamination at the FDOT Rest Area adjacent to the project site and monitoring was required throughout the dewatering operations.



Margate Aerial Crossing Margate, Florida

Estimated Completion Date

2014

Fee

\$24,490

Client

City of Margate (through contract
with Carollo Engineers)
Kelly McAtee, P.E., LEED AP
102 Rock Island Rd
Margate, FL 33063
(954) 972-0828

Chen Moore and Associates, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to evaluate 17 existing water and force mains aerially crossing canals within the City of Margate service area. The main objectives of this project were to collect updated pipe data to compare with existing city records, identify infrastructure failures, and provide recommendations where repairs or replacements are necessary for each crossing. The project involved thorough documentation of each crossing and final assessment of the condition for each pipe where repairs or replacements were necessary at each crossing at all 17 aerial crossings which were summarized and presented to the City of Margate in a final report including recommended maintenance work, cost estimates and prioritization of rehabilitation activities.

Aerial Rehabilitations Margate, Florida

Crossing

Estimated Completion Date

2015

Fee

\$49,628

Client

City of Margate (through contract
with Carollo Engineers)
Kelly McAtee, P.E., LEED AP
102 Rock Island Rd
Margate, FL 33063
(954) 972-0828

CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting for the rehabilitation of 12 aerial utility crossings and the replacement of one aerial water main crossing. These sites were selected based on a previous study of all aerial utility crossings in the City completed by CMA. The current project involves design of the pipeline rehabilitations, repairs and replacement including external coating, supports, fan guards, air release valves and isolation valves. Coordination with multiple drainage districts and regulatory agencies is necessary for the permitting of these improvements because of the various ownership of the canals.

Panama City Water & Sewer Improvements Joint Venture

Estimated Completion Date

2015

Fee

\$665,741

Client

Consorcio ICME & Chen Moore
SA
Avidel Saavedra
(507) 689-8971

Chen Moore and Associates is designing and permitting 80 kilometers of water main and 17 kilometers of sanitary sewer through Panama City and the City of Chorrera. The areas included the neighborhoods of Chorrillo, Marbella, San Francisco, Bethania, Obarrio and Bellavista in Panama City and Palmitas, Sector Amaya, La Reina, El Nazareno, Loma Brigida, El Espino y Torolandia en Chorrera. The watermains ranged in size from 6" to 42". The 80 km of watermain also included five aerial crossings over streams and or rivers; five underground crossings and three directional drill crossings on main intersections. The water sistem also included the design of 14 water tanks with capacities that range from 100,000 to 1,000,000 gallons and the design of six pump stations. The sewer system included design of lines that range from 8 to 12 inches and collector lines for the downtown area that ranged from 16 to 30 inches in diameter.

C14 WM Canal Crossing Margate, Florida

Estimated Completion Date

2015

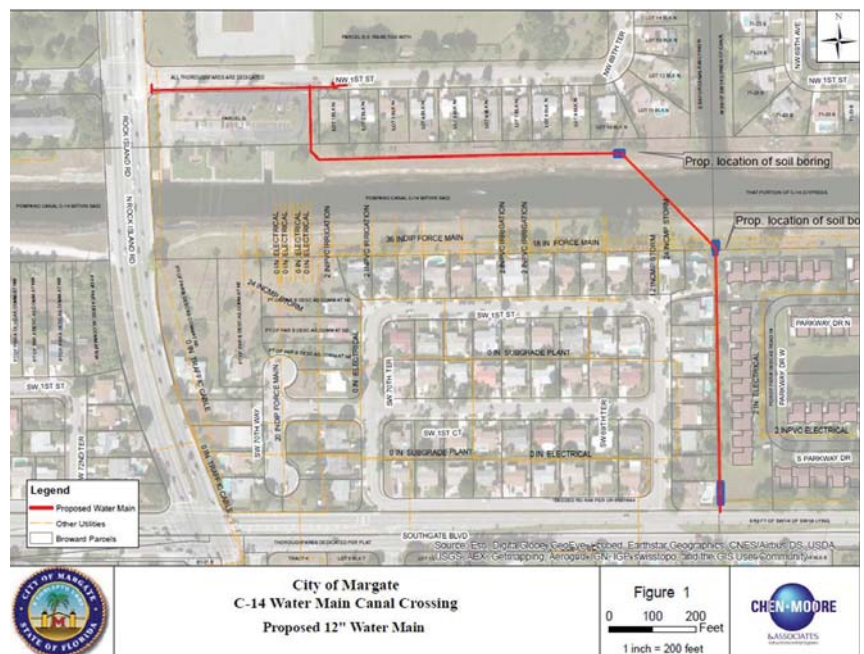
Fee

\$70,752

Client

City of Margate (through contract
with Carollo Engineers)
Kelly McAtee, P.E., LEED AP
102 Rock Island Rd
Margate, FL 33063
(954) 972-0828

CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting of water main improvements. The improvements were identified as part of a separate task order in which the water model for the City was updated. The C-14 canal crossing was proposed in order to provide redundancy to the distribution system. The improvements include a directional drill under the SFWMD C-14 canal and over 2,000 LF of water main installation to provide redundancy in the service area. Permitting coordination is required with both SFWMD and the ACOE for special approvals.



Force Main Modeling and Design

Margate, Florida

Estimated Completion Date

2015

Fee

\$100,239

Client

City of Margate (through contract
with Carollo Engineers)
Kelly McAtee, P.E., LEED AP
102 Rock Island Rd
Margate, FL 33063
(954) 972-0828

CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform modeling, design and permitting for force main improvements. The modeling is based on the previous models that CMA completed for the City and will evaluate two different options for connecting existing force mains. These connections will allow the City to direct the flow to their other wastewater treatment plant. In addition to the modeling, the project includes the design and permitting of over 2,600 LF of new force main and abandonment of over 1,000 LF of existing force main. The new force main design incorporates a directional drill under a City-owned canal.



BC UAZ Projects

Broward County, Florida

Estimated Completion Date

2014

Fee

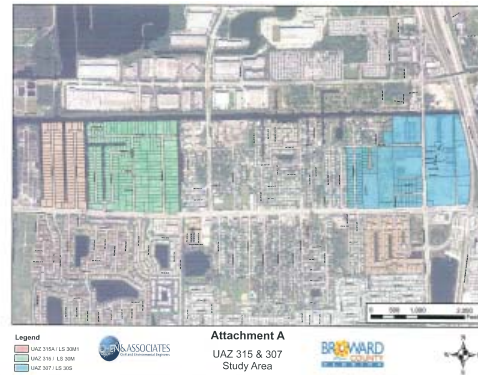
\$2,931,151

Client

Broward County
Patrick MacGregor
2555 West Copans Road
Pompano Beach, FL 33069-1233
954.831.0904

UAZ 307 / 315 - The Broward County UAZ 307 / 315 Utilities project included replacing existing water main and providing sanitary sewer

for County Service Areas in the City of Dania Beach, near Griffin Road and Ravenswood Road. The main technical components included replacing a 12-inch water main on Ravenswood Road, replacing the residential water distribution system, providing sanitary sewer to



connect existing septic tanks and rehabilitating and installation of new lift stations and force main. In order to achieve the necessary information, site visits concentrated on contacting residents to determine the location of existing tanks. A great deal of coordination was required to accommodate developer projects, tie into County projects, and obtain easements for crossing private properties. A total of 20,000 linear feet of water main replacement, three lift stations and 14,000 linear feet of sanitary sewer, which will tie in over 400 parcels, were designed for this project. Chen Moore and Associates is also performing construction administration for this project.

UAZ 303, 314 and 318 - The Broward County UAZ 303,314 and 318 project was part 1 of what was projected to be an \$8.8 million project replacing existing water and providing sanitary sewer for County Service Areas in the City of Dania Beach, just east of State Road 7, north and south of Griffin Road. The main technical components included replacing water mains on County roads, replacing the residential water distribution system, providing sanitary sewer systems to eliminate existing septic tanks, and rehabilitating or installing new lift stations. GIS was used to keep track of all ongoing projects, log pertinent site information, determine the projected flow rates, track questions from residents of the area and track responses from utility companies regarding their existing facilities. The design of these improvements began in January 2009 and UAZ 303 has been completed.

UAZ 316 - The Broward County UAZ 316 project is part 2 of the estimated \$8.8 million project servicing Broward County utility zones in the City of Dania Beach which includes replacing existing water and providing sanitary sewer just east of State Road 7, and south of Griffin Road. The main technical components include replacing water mains, replacing the residential water distribution system, providing sanitary sewer systems to eliminate existing septic tanks and rehabilitating or installing new lift stations.

Proposed 8" D.I.P. Force Main - S.W. 192nd Avenue (From S.W. 354th Street to S.W. 360th Street), Miami-Dade County, FL

The project will include the construction of $\pm 1,943$ linear feet (LF) of 8-inch diameter D.I.P Force Main along S.W. 192nd Avenue from S.W. 354th Street to S.W. 360th Street in Miami-Dade County, Florida. Additionally, we understand that the pipe alignment will consist of substructures and thrust blocks. At the time of our study, the area of the proposed pipe alignment was a roadway (S.W. 192nd Avenue) with one lane of traffic flow in each direction, within a primarily agricultural area. To evaluate subsurface conditions at the site, we drilled/sampled four SPT borings that were each advanced to depths of 15 feet below grade.

Role: Geotechnical Engineering Services

Contract Term: June 2014 to August 2014

Client: Mr. Joseph A. Marcelin, Architect 2, Project Design Manager, MIAMI-DADE WATER & SEWER (WASD)
3575 S. Lejeune Road, Miami, Florida 33146.2221, Phone (786) 268-5287, Fax (786) 268-5147, e-mail: jamar01@miamidade.gov

WASD Force Main Replacement - S.W. 76th Street & S.W. 84th Street, Miami-Dade County, FL

The project will include the construction of $\pm 6,185$ linear feet (LF) of sewer force main consisting of 12-inch and 10-inch ductile iron pipe (DIP) along S.W. 76th Street and 84th Street in Miami-Dade County, Florida. Additionally, we understand that the pipe alignment will consist of substructures and thrust blocks. At the time of our study, the area of the proposed pipe alignment was a roadway (S.W. 76th Street and 84th Street) with one lane of traffic flow in each direction, within a primarily residential neighborhood. To evaluate subsurface conditions at the site, we drilled/sampled eight SPT borings that were each advanced to depths of 15 feet below grade.

Role: Geotechnical Engineering Services

Contract Term: September 2014 to November 2014

Client: Mr. Jason L. James, Project Manager, CPH, Inc., 1992 S.W. 1st Street, Miami, FL 33135, Phone (305) 274-4805 ext. 3602, Fax (305) 274-4807, e-mail: jjames@cphcorp.com

Proposed 10-Inch D.I. Force Main Installation - N.W. 112th Avenue – From West Flagler Street to PS 0149 (N.W. 2nd Terrace), Miami-Dade County, FL

The project will include the construction of $\pm 1,000$ linear feet (LF) of 10-inch diameter ductile iron pipe (D.I.P.) force main along N.W. 112th Avenue from West Flagler Street to PS 0149 (N.W. 2nd Terrace) in Miami-Dade County, Florida. Additionally, we understand that the pipe alignment will consist of substructures and thrust blocks. At the time of our study, the area of the proposed pipe alignment was a roadway (N.W. 112th Avenue) with one lane of traffic flow in each direction, within a primarily residential area. To evaluate subsurface conditions at the site, we drilled/sampled two SPT borings that were each advanced to depths of 15 feet below grade.

Role: Geotechnical Engineering Services

Contract Term: December 2014 to February 2015

Client: Mr. Joseph A. Marcelin, Architect 2, Project Design Manager, MIAMI-DADE WATER & SEWER (WASD),
3575 S. Lejeune Road, Miami, Florida 33146.2221, Phone (786) 268-5287, Fax (786) 268-5147, e-mail: jamar01@miamidade.gov

Surveying Projects



City of Sunrise

- University Hospital – Sketch and Legal Descriptions o Davie Country Club – Sketch and Legal Descriptions
- Southwest Water Treatment Plant – As-Built Survey
- Sunrise Road Improvements – Various Topographic Surveys
- Five Vacant Parcels – Boundary Surveys
- Park City Water Treatment Plant – Updated Boundary Survey
- Passive Park – Topographic and Utility Surveys
- City Hall Parking Lot – Topographic Survey
- N.W. 44th Street – Topographic Survey

Town of Davie

- Oakes Road Fire Station – Boundary Survey
- Lift Station Number 11 Improvement Project – Topographic Survey
- Silver Lakes Park – Construction Layout Survey
- Wachovia Bank Parcels – Boundary, Topographic, & Tree Surveys
- Parks & Recreation Building at Pine Island Park – Topographic Survey
- Orange Drive – Topographic & Tree Surveys
- Eastside Community Hall – Topographic & Tree Surveys
- N-20 Canal – Topographic Survey
- Public Works Gas Pump Station – Topographic Survey
- S.W. 130th Avenue Canal – Topographic Survey
- Sunny Lake Expansion – Boundary Survey

South Florida Water Management District

- East Coast Buffer Cells 28 & 29 – Boundary Survey
- C-4 Canal Coveyance – Topographic Survey
- Lake Hicpochee – Boundary and Topographic Surveys



Structural Engineering Projects



Deerfield Beach Middle School Park, Deerfield Beach, Florida

Park project that included design of 5 new park buildings that included a 550 sq. ft. pool entry building, 3,200 sq. ft. pool building, 2 story-3,000 sq. ft. baseball pavilion, 2 story-2,300 sq. ft. football pavilion, and 900 sq. ft. picnic shelter.

Warfield Park, Ft. Lauderdale, Florida

Park project for a 4,000 square foot community center and site improvements. The facility had an indoor basketball court which required special attention to the exterior wall and roof design.

Lauderdale Lakes Community Center, Lauderdale Lakes, Florida

Park project for a new community center. The facility consists of two buildings, a 6,000 square-foot activity building, and a 2,000 square foot athletic center that share an outdoor landscaped plaza.

Geotechnical Engineering Projects

N|V|5

Government Cut Utility Relocation - Fisher Island – Port Miami Tunnels

As a sub-consultant, NV5 provided Geotechnical Engineering and Construction Materials Testing services for the Miami-Dade Water and Sewer Department largest Design-Build project to date, The Government Cut Utility Relocation Project.

The project consisted of a fast track design-build for a new water and sewer main using micro-tunneling and horizontal direction drilling technology at the Port of Miami. The project consisted of lowering existing utilities before the Port of Miami Deep Dredge Project's operation; a 100' deep and 1,800' long 24-inch diameter horizontal direction drill water main from the Port of Miami to Fisher Island to replace an existing 20-inch water main; and a 72-inch diameter micro-tunnel from Fisher Island to an in-water shaft south of Miami Beach. The in-water shaft was constructed at a depth of approximately 80 feet.



The 1,100', 72-inch micro-tunnel, installed at a depth of 80 feet, carries a new 60-inch diameter sewage force main, replacing the existing force main which transmitted wastewater from Miami Beach, Surfside and Bal Harbor to the County's force main pipeline in Fisher Island, connecting to the Central District Wastewater Treatment Plant on Virginia Key. In order to assist the Design-Builder with commencing construction while the design was in progress, the design team leader divided the design into 15 different work packages. Owner approvals, design reviews and permitting efforts were broken up into small work packages, allowing construction to commence. Once site prep was completed and permits obtained, work on the deep shafts and directional drilling commenced.

Project Contact Reference

Orlando J. Castro, PE
Hazen and Sawyer
999 Ponce de Leon Boulevard, Suite 1150
Coral Gables, FL 33134
Phone: 305.443.4001

Project Start Date: 05/2011

Project Completion Date: 03/2013

Budget/Fee: \$70 million

Brickell Citicentre



As a sub-consultant, NV5 is currently providing testing services to \$1 billion Brickell Citicentre project in Miami, Florida. This project spans three city blocks in downtown Miami. NV5 conducts the quality control testing for the simultaneous construction of multiple 20 to 45 level structures and general site development. Included in this structure is a two level below grade basement constructed utilizing soil mixing and augercast piles. The superstructure incorporates concrete, masonry and steel construction. The estimated total concrete volume for Brickell City Centre is 300,000 CY and is solely managed through a

NV5

single laboratory operated by NV5. NV5 is currently providing geotechnical engineering, field observations, pile observations/testing, steel inspection, concrete testing, and soils testing services to the Project. We maintain an on-site testing laboratory with 4 to 8 technicians on a daily basis.

Project Contact Reference

Graciela Escalante
Swire Properties Inc.
799 Brickell Plaza, Suite 802
Miami, FL 33131
Phone: 305.371.3877

Project Start Date: 06/2011

Project Completion Date: Ongoing

Budget/Fee: \$1 billion

Force Main Tunnel Between Virginia Key and Fisher Island Under Norris Cut

Project consists of the design and construction for the replacement of the existing 54-inch sanitary sewage force main pipeline. This pipe takes flow to the Central District Wastewater Treatment Plant via Fisher Island under the Norris Cut Channel. NV5 is providing a Geotechnical Design Memorandum which is required for the Force Main tunnel proposed between Virginia Key and Fisher Island. The main scope includes the installation of a precast concrete segmental tunnel, which will stretch more than 5,000-ft from the treatment plant on Virginia Key to Fisher Island.

The Design-Build contract includes planning, engineering, design, permitting, procurement, construction/installation, testing and the start-up of the replacement force main.



Project Contact Reference

Wilfredo Espinoza
Nicholson Construction Company
8725 NW 18th Terrace #304, Doral, FL 33172
Phone: 305.715.2080

Project Start Date: 03/2014

Project Completion Date: Ongoing

Budget/Fee: \$72.2 million

Layout and Asbuilts Projects

Filippelli Surveying, Inc.

Wellington, Florida

Survey land for platting of subdivisions leading to construction layout of said subdivisions' infrastructure.

Palm Beach County

Road right-of-way projects. Data Collection of Topographic Features for Design Work

St. Croix-V.I.

Responsible for layout of 33 lot subdivision

Bahamas

Survey 1 mile of coastline for proposed marina including soundings and underwater location out to 1/4 mile

Client	Additional Project Experience	
	Project	Construction Amount
Key Largo	Vacuum Collection System Basin- B Phase I and II	\$2,170,000
City of Miami	Washington Ave. Improvements Program Design Build	\$18,230,000
Broward County	Broadview Park Neighborhood Improvements	\$10,447,000
Palm Beach County	La Mancha AV Pipeline Extension Project	\$4,960,000
Broward County OES	St. George East Neighborhood Improvement	\$10,282,000
St. Lucie County	South 26th Street Area Improvements	\$2,234,000
City of Miami Beach	Lumus Neighborhood 6th Street To Espanola Way	\$13,107,000
City of Vero	S.R. 60 Industrial Park	\$2,076,000

Horizontal Directional Drill (HDD)



Name Of Project	Osceola Parkway- Florida Turnpike WM Crossing
Location	Kissimmee, FL
Installation of	30" FPVC 1,500 LF
Timeline of work:	Completed: July 2013
Osha Violations:	None
Owner Name	Tohopekaliga Water Authority
Contact Name	Ralph Andrew, President
Contact Employer	Andrew Sitework, LLC, Phone number (239) 222-6787
Email	Ralph Andrew <ralph@andrewsitework.com>
Name Of Project	Fpl-Submarine Crossing Belvedere Feeder
Location	West Palm Beach, FL
Installation of	24" Pipe 36" Reemer 4,900 LF
Timeline of work:	Completed: September 2013
Osha Violations:	None
Owner Name	Florida Power & Light
Contact Name	Fredie Brady, Project Manager
Contact Employer	Danella Utility Construction, Inc., Phone number (954) 605-3668 (cell)
Email	Fredie Brady <fbrady@danella.com>
Name Of Project	Waterway Estates Interconnect
Location	North Fort Myers, FL
Installation of	30" HDPE 1,100 LF
Timeline of work:	Completed May 2012
Osha Violations:	None
Owner Name	Guyman Construction, Inc. (Ex-office, the governing Board of the Owner)
Contact Name	Mari Cabana, Owner/Manager
Contact Employer	Cabana Construction of SW FL, Inc., Phone number (239) 332-1665
Name Of Project	Pasco County Decubelis Rd. & Starkey Blvd
Location	Pasco County, FL
Installation of	30" HDPE 1,200 LF
Timeline of work:	Completed Feb 2011
Osha Violations:	None
Owner Name	The Board of County Commissioners of Pasco County
Contact Name	Bruke Hedeges, Project Manager
Contact Employer	Equibore, Phone number (727)420-0515
Email	burke@equibore.com

Name Of Project **Bavpines Bridge**
 Location Sarasota, FL
 Installation of 20" 2,170 LF
 Timeline of work: Completed Nov 2012
 Osha Violations: None
 Owner Name Progress Energy (WR: 123634)
 Contact Name Bruke Hedeges, Project Manager
 Contact Employer Equibore, Phone number (727)420-0515
 Email burke@equibore.com



Name Of Project **Seminole Boat Ramp**
 Location Clearwater, FL
 Installation of 20" 2,940 LF
 Time line of work: November 2012
 Osha Violations: None
 Owner Name Progress Energy
 Contact Name Chris McLaughlin, Project Manager
 Contact Employer Mac Driller
 Email chris@macdriller.com

Name Of Project **Imperial Point Large Water Main Alternate Alingment, Phase II**
 Location Ft. Lauderdale
 Installation of 24" 1,150 Ft.
 Timeline of work: Completed Jan 2014
 Osha Violations: None
 Contact Name Luis Cordova, Project Manager
 Contact Employer Intercounty Engineering, Inc., Phone number Cell (954) 325 - 7948
 Email LFCordova@intercountyengineering.com

Name Of Project **Coon Key Bridge**
 Location Sarasota, FL
 Installation of 16" HDPE 1,405 Ft.
 Timeline of work: Completed Jan 2013
 Osha Violations: None
 Contact Name Luis Cordova, Project Manager
 Contact Employer Intercounty Engineering, Inc., Phone number Cell (954) 325 - 7948
 Email LFCordova@intercountyengineering.com

Name Of Project **Gulf Stream Ave./Alderman St. Forcemain Project: 177310514**
 Location Sarasota, FL
 Installation of 24" FPVC 600 Ft.; 24" FPVC 800 Ft.; 24" FPVC 980 Ft.
 Timeline of work: Completed March 2013
 Osha Violations: None
 Contact Name Mark, Project Manager
 Contact Employer Spectrum Underground, Inc., Phone number (941) 342-6708
 Email mbombard@spectrumunderground.com



ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION *(City and State)*

Margate 2015-016 - Design Build Force and Water Mains

2. PUBLIC NOTICE DATE

August 3, 2015

3. SOLICITATION OR PROJECT NUMBER

2015-016

B. ARCHITECT – ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Suzanne Dombrowski, Project Manager

5. NAME OF FIRM

Chen Moore and Associates

6. TELEPHONE NUMBER

954-730-0707 x1035

7. FAX NUMBER

954-737-2030

8. E-MAIL ADDRESS

sdombrowski@chenmoore.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check)						
	PRIME	J-V	PARTNER	SUBCON-TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	X				Chen Moore and Associates <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	500 W Cypress Creek Road Suite 630 Fort Lauderdale, FL 33309	Civil Engineering
b.				X	Professional Service Industries, Inc. (PSI) <input type="checkbox"/> CHECK IF BRANCH OFFICE	2000 Avenue P, Ste. 16 Riviera Beach, FL 33404	Materials Testing
c.				X	Stoner and Associates, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	4341 SW 62nd Avenue Davie, FL 33314	Surveying
d.				X	United Engineering Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	9700 S. Dixie Highway, Suite 880 Miami, FL 33156	Structural Engineering
e.				X	NV5 <input type="checkbox"/> CHECK IF BRANCH OFFICE	200 South Park Road, Ste. 350 Hollywood, FL 33021	Geotechnical Engineering
f.				X	Filippelli Surveying <input type="checkbox"/> CHECK IF BRANCH OFFICE	17831 Orange Grove Boulevard Loxahatchee, FL 33470	Layout and Asbuilts

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

☒ *(Attached)*

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCONTRACTOR			
g.			X	Centerline Drilling Inc <input type="checkbox"/> CHECK IF BRANCH OFFICE	1696 Old Okeechobee Rd Ste 3-C West Palm Beach, FL 33409	Horizontal Directional Drill
h.			X	 CHECK IF BRANCH OFFICE		
i.				 CHECK IF BRANCH OFFICE		
j.				 CHECK IF BRANCH OFFICE		
k.				 CHECK IF BRANCH OFFICE		
l.				 CHECK IF BRANCH OFFICE		
m.				 CHECK IF BRANCH OFFICE		
n.				 CHECK IF BRANCH OFFICE		
o.				 CHECK IF BRANCH OFFICE		
p.				 CHECK IF BRANCH OFFICE		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Suzanne Dombrowski, P.E.	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL 11</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM 9</td> </tr> </table>		a. TOTAL 11	b. WITH CURRENT FIRM 9
a. TOTAL 11	b. WITH CURRENT FIRM 9				
15. FIRM NAME AND LOCATION (City and State) Chen Moore and Associates, Fort Lauderdale, FL					
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Civil Engineering Master of Engineering / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL / Professional Engineer			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ms. Dombrowski is a senior engineer with Chen Moore and Associates. Ms. Dombrowski has worked on multiple neighborhood improvement projects for Broward County, including sewer, drainage and roadway design and permitting. Ms. Dombrowski also managed the utility coordination projects for Riviera Beach Utility District, including the water and sewer designs, permitting and construction administration. She has experience using GIS during projects to calculate sewer and water flows, provide exhibits for permitting, prepare field study reports and various exhibits for coordination throughout construction.					

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Aerial Crossing Rehabilitations, Margate, Florida	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable) N/A
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting for the rehabilitation of 12 aerial utility crossings and the replacement of one aerial water main crossing. These sites were selected based on a previous study of all aerial utility crossings in the City completed by CMA. The current project involves design of the pipeline rehabilitations, repairs and replacement including external coating, supports, fan guards, air release valves and isolation valves. Coordination with multiple drainage districts and regulatory agencies is necessary for the permitting of these improvements because of the various ownership of the canals. Fee: \$49,628		
	Force Main Modeling and Design, Margate, Florida	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If Applicable) N/A
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform modeling, design and permitting for force main improvements. The modeling is based on the previous models that CMA completed for the City and will evaluate two different options for connecting existing force mains. These connections will allow the City to direct the flow to their other wastewater treatment plant. In addition to the modeling, the project includes the design and permitting of over 2,600 LF of new force main and abandonment of over 1,000 LF of existing force main. The new force main design incorporates a directional drill under a City-owned canal. Fee: \$100,239		
	C14 WM Canal Crossing, Margate, Florida	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If Applicable) 2015
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting of water main improvements. The improvements were identified as part of a separate task order in which the water model for the City was updated. The C-14 canal crossing was proposed in order to provided redundancy to the distribution system. The improvements include a directional drill under the SFWMD C-14 canal and over 2,000 LF of water main installation to provide redundancy in the service area. Permitting coordination is required with both SFWMD and the ACOE for special approvals. Fee: \$70,752		
	Turnpike 48" Force Main Relocation, Broward County, FL	PROFESSIONAL SERVICES 2006	CONSTRUCTION (If Applicable) 2006
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Engineer. CMA was the prime consultant of a design-build team tasked to design, permit and construct the relocation of a 48" Force Main in the Turnpike Right-of-Way. This project involved the open cut installation of approximately 5,400 LF of 48" DIP followed by the removal of the existing PCCP. Coordination activities included Florida's Turnpike Enterprise of the Florida Department of Transportation, South Florida Water Management District, the Florida Department of Environmental Protection and Broward County Water and Wastewater Services. The project schedule was an aggressive 112 days from Notice to Proceed to completion. Fee: \$380,969; Cost: \$4,570,000		
	Broadview Park NIP 20" Water Main Extension, Broward County, FL	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If Applicable) 2011
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Engineer. CMA was responsible for the design and construction administration of the 20" Water Main Extension on SR-7 (US 441). This project is approximately 9,000 LF in length and links two previous CMA projects to provide a water source for the Broadview Park Neighborhood from Broward County WTP 1A. This project involved extensive permitting and coordination with FDOT District IV as the majority of the water main falls within FDOT ROW. The permit requirement also included complex Maintenance of Traffic design. Fee: \$ 586,828; Cost: \$2 million		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Peter Moore, P.E., F.ASCE, LEED AP	13. ROLE IN THIS CONTRACT Principal-in-Charge	14. YEARS EXPERIENCE a. TOTAL 17 b. WITH CURRENT FIRM 15	
15. FIRM NAME AND LOCATION (City and State) Chen Moore and Associates, Fort Lauderdale, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Civil Engineering Master of Engineering / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL / Professional Engineer	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) As the President of the firm, Mr. Moore is ultimately responsible for all day to day operations of the firm. Mr. Moore works as the Client Project Manager for work in Broward County, Pompano Beach and Deerfield Beach and continues to be involved in the successful completion of projects. These projects include sanitary collection improvements, pump station rehabilitation, transportation engineering enhancements, water and reclaimed water consulting along with all other phases of civil engineering design and neighborhood improvements.			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
(1) Turnpike 48" Force Main Relocation, Broward County, FL	PROFESSIONAL SERVICES 2006	CONSTRUCTION (If Applicable) 2006
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE a. Project Manager, Mr. Moore was the project manager responsible for all design and construction considerations. Sr. Engineer. CMA was the prime consultant of a design-build team tasked to design, permit and construct the relocation of a 48" Force Main in the Turnpike Right-of-Way. This project involved the open cut installation of approximately 5,400 LF of 48" DIP followed by the removal of the existing PCCP. Coordination activities included Florida's Turnpike Enterprise of the Florida Department of Transportation, South Florida Water Management District, the Florida Department of Environmental Protection and Broward County Water and Wastewater Services. The project schedule was an aggressive 112 days from Notice to Proceed to completion. Fee: \$380,969; Cost: \$4,570,000	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) 72" Force Main NW/NE 159th Street Between NW 17th Ave & NE 10th Ave., Miami, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2013 CONSTRUCTION (If Applicable) 2013	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE b. Sr. Engineer. As part of the team LAN Team, CMA prepared plans for the design build package for the rehabilitation/replacement of a 72" existing force main from NW/NE 159th Street between NW 17th Avenue and NE 10th Avenue for Miami-Dade Water and Sewer Department (WASD). CMA tasks include the following: review and collection of available aerial photography, maps and LIDAR data; utility coordination; meetings with local agencies to acquire existing/available geotechnical data; preparation of existing condition corridor plans; preparation of rights-of-way designation plans; identification of municipal pavement repair requirements and proposed pavement resurfacing methods and limits; preparation of preliminary maintenance of traffic plan; preparation of and engineer's opinion of probable construction cost; and utility investigation/WASD as-built/repair and rehabilitation documentation review and recommendations. Fee: \$48,247	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Broadview Park NIP 20" Water Main Extension, Broward County, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2010 CONSTRUCTION (If Applicable) 2011	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE c. Principal, Mr. Moore served as the principal-in-charge for this project, supervising all administrative aspects and schedule milestones. CMA was responsible for the design and construction administration of the 20" Water Main Extension on SR-7 (US 441). This project is approximately 9,000 LF in length and links two previous CMA projects to provide a water source for the Broadview Park Neighborhood from Broward County WTP 1A. This project involved extensive permitting and coordination with FDOT District IV as the majority of the water main falls within FDOT ROW. The permit requirement also included complex Maintenance of Traffic design. Fee: \$ 586,828; Cost: \$2 million	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Broward County BCWWS WWED UAZ 307/315 Utilities Broward County, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2009 CONSTRUCTION (If Applicable) 2011	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE d. Sr. Engineer. Broward County Water and Wastewater's Utility Analysis Zone (UAZ) 307 / 315 Utilities project included replacing existing undersized water main and providing sanitary sewer for County Service Areas in an urban neighborhood within the City of Dania Beach, near Griffin Road and Ravenswood Road. The main technical components included replacing a 1,900 LF of 12-inch water main on Ravenswood Road, replacing 10,961 LF of 8-inch of residential water mains, including services, providing sanitary sewer to connect existing septic tanks and rehabilitating and installation of new lift stations and force main. Fee: \$1,078,598; Cost: \$8,378,598	<input checked="" type="checkbox"/> Check if project performed with current firm	
(1) TITLE AND LOCATION (City and State) Improvements to Force Main Crossing Intercoastal Waterway at Hillsboro Blvd, Deerfield Beach, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES 2014 CONSTRUCTION (If Applicable) 2014	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE e. Principal. CMA designed the Subaqueous Forcemain Crossing for the City of Deerfield Beach. The forcemain was over 500 LF long and approximately 60 feet deep with 14 inch diameter HDPE. It crosses the intercoastal waterway at Hillsboro Boulevard to replace an existing force main. The project included the design of a directional drill under the intercoastal. Extensive permitting with FDEP, USACE and FDOT, as well as bidding assistance and construction administration services were also performed. Fee: \$ 80,834; Cost: \$426,050	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Paula Fonseca, P.E.	13. ROLE IN THIS CONTRACT Civil Engineering	14. YEARS EXPERIENCE	
		a. TOTAL 4	b. WITH CURRENT FIRM 4

15. FIRM NAME AND LOCATION (City and State) Chen Moore and Associates, Fort Lauderdale, FL

16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Civil Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL / Professional Engineer
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ms. Fonseca is a civil engineering graduate of Florida Atlantic University with nearly six years of experience. She serves as senior engineer in Chen Moore and Associates' West Palm Beach office and serves as the primary hydraulic modeler for the firm. She assists with design work using AutoCAD, GIS and InfoWater 8.1v. Ms. Fonseca has worked on neighborhood improvement projects for Broward County, utility coordination projects for Riviera Beach Utility District, including water and sewer designs and permitting, Design of GIS Utility Atlases for the City of Pompano Beach and Solid Waste Authority, as well as Palm Beach County Water Master Plan and Glades Regional Water Master Plan through the use of water modeling software and GIS.

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a. (1) TITLE AND LOCATION (City and State) Aerial Crossing Rehabilitations, Margate, Florida	2014	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Engineer. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting for the rehabilitation of 12 aerial utility crossings and the replacement of one aerial water main crossing. These sites were selected based on a previous study of all aerial utility crossings in the City completed by CMA. The current project involves design of the pipeline rehabilitations, repairs and replacement including external coating, supports, fan guards, air release valves and isolation valves. Coordination with multiple drainage districts and regulatory agencies is necessary for the permitting of these improvements because of the various ownership of the canals. Fee: \$49,628	<input checked="" type="checkbox"/> Check if project performed with current firm	
b. (1) TITLE AND LOCATION (City and State) C14 WM Canal Crossing, Margate, Florida	2015	2015
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Engineer. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting of water main improvements. The improvements were identified as part of a separate task order in which the water model for the City was updated. The C-14 canal crossing was proposed in order to provided redundancy to the distribution system. The improvements include a directional drill under the SFWMD C-14 canal and over 2,000 LF of water main installation to provide redundancy in the service area. Permitting coordination is required with both SFWMD and the ACOE for special approvals. Fee: \$70,752	<input checked="" type="checkbox"/> Check if project performed with current firm	
c. (1) TITLE AND LOCATION (City and State) Force Main Modeling and Design, Margate, Florida	2015	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Engineer. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform modeling, design and permitting for force main improvements. The modeling is based on the previous models that CMA completed for the City and will evaluate two different options for connecting existing force mains. These connections will allow the City to direct the flow to their other wastewater treatment plant. In addition to the modeling, the project includes the design and permitting of over 2,600 LF of new force main and abandonment of over 1,000 LF of existing force main. The new force main design incorporates a directional drill under a City-owned canal. Fee: \$100,239	<input checked="" type="checkbox"/> Check if project performed with current firm	
d. (1) TITLE AND LOCATION (City and State) Broward County BCWWS WWED UAZ 307/315 Utilities Broward County, FL	2009	2011
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Engineer. Broward County Water and Wastewater's Utility Analysis Zone (UAZ) 307 / 315 Utilities project included replacing existing undersized water main and providing sanitary sewer for County Service Areas in an urban neighborhood within the City of Dania Beach, near Griffin Road and Ravenswood Road. The main technical components included replacing a 1,900 LF of 12-inch water main on Ravenswood Road, replacing 10,961 LF of 8-inch of residential water mains, including services, providing sanitary sewer to connect existing septic tanks and rehabilitating and installation of new lift stations and force main. Fee: \$1,078,598; Cost: \$8,378,598	<input checked="" type="checkbox"/> Check if project performed with current firm	
e. (1) TITLE AND LOCATION (City and State) Panama City Water & Sewer Improvements Joint Venture, Panama	ongoing	ongoing
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Sr. Engineer. CMA is designing and permitting 80 kilometers of water main and 17 kilometers of sanitary sewer through Panama City and the City of Chorrera. The areas included the neighborhoods of Chorrillo, Marbella, San Francisco, Bethania, Obarrio and Bellavista in Panama City and Palmitas, Sector Amaya, La Reina, El Nazareno, Loma Brigida, El Espino y Torolandia en Chorrera. The watermain ranged in size from 6" to 42". The 80 km of watermain also included five aerial crossings over streams and or rivers; five underground crossings and three directional drill crossings on main intersections. Fee: \$665,741.17	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Safiya Brea, P.E., LEED AP	13. ROLE IN THIS CONTRACT Civil Engineering	14. YEARS EXPERIENCE <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">a. TOTAL 14</td> <td style="width: 50%; border: none;">b. WITH CURRENT FIRM 13</td> </tr> </table>		a. TOTAL 14	b. WITH CURRENT FIRM 13
a. TOTAL 14	b. WITH CURRENT FIRM 13				
15. FIRM NAME AND LOCATION (City and State) Chen Moore and Associates, Fort Lauderdale, FL					
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Civil Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL / Professional Engineer			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ms. Brea has over 13 years of experience with neighborhood improvement projects, including the design of roadways, sidewalks, drainage, water and wastewater infrastructure. As a senior civil engineer, she has managed projects ranging from thousands of dollars to multi-million dollar, large-scale neighborhood improvement programs. Ms. Brea has managed and designed streetscape improvements, roundabouts, lift station, stormwater improvements and master plans, and booster station basis of design reports. Her duties include construction management, managing GIS and Autocad design work, Cascade modeling, sewer modeling, and report preparation for municipalities throughout South Florida.					

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Aerial Crossing Rehabilitations, Margate, Florida	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable) N/A
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Sr. Engineer. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting for the rehabilitation of 12 aerial utility crossings and the replacement of one aerial water main crossing. These sites were selected based on a previous study of all aerial utility crossings in the City completed by CMA. The current project involves design of the pipeline rehabilitations, repairs and replacement including external coating, supports, fan guards, air release valves and isolation valves. Coordination with multiple drainage districts and regulatory agencies is necessary for the permitting of these improvements because of the various ownership of the canals. Fee: \$49,628		
	Force Main Modeling and Design, Margate, Florida	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If Applicable) N/A
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Sr. Engineer. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform modeling, design and permitting for force main improvements. The modeling is based on the previous models that CMA completed for the City and will evaluate two different options for connecting existing force mains. These connections will allow the City to direct the flow to their other wastewater treatment plant. In addition to the modeling, the project includes the design and permitting of over 2,600 LF of new force main and abandonment of over 1,000 LF of existing force main. The new force main design incorporates a directional drill under a City-owned canal. Fee: \$100,239		
	C14 WM Canal Crossing, Margate, Florida	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If Applicable) 2015
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Sr. Engineer. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting of water main improvements. The improvements were identified as part of a separate task order in which the water model for the City was updated. The C-14 canal crossing was proposed in order to provided redundancy to the distribution system. The improvements include a directional drill under the SFWMD C-14 canal and over 2,000 LF of water main installation to provide redundancy in the service area. Permitting coordination is required with both SFWMD and the ACOE for special approvals. Fee: \$70,752		
	Broadview Park NIP 20" Water Main Extension, Broward County, FL	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If Applicable) 2011
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Project Manager, Ms. Brea is responsible for the design of the water improvements as well as the permitting and project coordination. Sr. Engineer. CMA was responsible for the design and construction administration of the 20" Water Main Extension on SR-7 (US 441). This project is approximately 9,000 LF in length and links two previous CMA projects to provide a water source for the Broadview Park Neighborhood from Broward County WTP 1A. This project involved extensive permitting and coordination with FDOT District IV as the majority of the water main falls within FDOT ROW. The permit requirement also included complex Maintenance of Traffic design. Fee: \$ 586,828; Cost: \$2 million		
	Improvements to Force Main Crossing Intercoastal Waterway at Hillsboro Blvd., Deerfield Beach, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable) 2014
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm Project Manager. CMA designed the Subaqueous Forcemain Crossing for the City of Deerfield Beach. The forcemain was over 500 LF long and approximately 60 feet deep with 14 inch diameter HDPE. It crosses the intercoastal waterway at Hillsboro Boulevard to replace an existing force main. The project included the design of a directional drill under the intercoastal. Extensive permitting with FDEP, USACE and FDOT, as well as bidding assistance and construction administration services were also performed. Fee: \$ 80,834; Cost: \$426,050		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Marcus Austin, GC	13. ROLE IN THIS CONTRACT Construction Administration	14. YEARS EXPERIENCE	
		a. TOTAL 27	b. WITH CURRENT FIRM 13
15. FIRM NAME AND LOCATION (City and State) Chen Moore and Associates, Fort Lauderdale, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) Associate of Science / Civil / Architectural Engineering		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) FL / General Contractor's License	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Austin is the Director of Construction Services and project coordinator for Chen Moore and Associates (CMA). He has brought over 27 years of design and development experience in South Florida to CMA. He is currently involved in both vertical and horizontal projects, which have a total construction value of over \$167 million. These projects include the Broadview Park Neighborhood Improvement Projects and various civil engineering projects for municipalities such as the City of Coral Springs, Pompano Beach and Ft. Lauderdale. Mr. Austin is also a certified NPDES and OSHA Training instructor and teaches these courses throughout the State of Florida.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	Aerial Crossing Rehabilitations, Margate, Florida	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable) N/A
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CA. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting for the rehabilitation of 12 aerial utility crossings and the replacement of one aerial water main crossing. These sites were selected based on a previous study of all aerial utility crossings in the City completed by CMA. The current project involves design of the pipeline rehabilitations, repairs and replacement including external coating, supports, fan guards, air release valves and isolation valves. Coordination with multiple drainage districts and regulatory agencies is necessary for the permitting of these improvements because of the various ownership of the canals. Fee: \$49,628		
	C14 WM Canal Crossing, Margate, Florida	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If Applicable) 2015
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CA. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting of water main improvements. The improvements were identified as part of a separate task order in which the water model for the City was updated. The C-14 canal crossing was proposed in order to provided redundancy to the distribution system. The improvements include a directional drill under the SFWMD C-14 canal and over 2,000 LF of water main installation to provide redundancy in the service area. Permitting coordination is required with both SFWMD and the ACOE for special approvals. Fee: \$70,752		
	Force Main Modeling and Design, Margate, Florida	PROFESSIONAL SERVICES 2015	CONSTRUCTION (If Applicable) N/A
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CA. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform modeling, design and permitting for force main improvements. The modeling is based on the previous models that CMA completed for the City and will evaluate two different options for connecting existing force mains. These connections will allow the City to direct the flow to their other wastewater treatment plant. In addition to the modeling, the project includes the design and permitting of over 2,600 LF of new force main and abandonment of over 1,000 LF of existing force main. The new force main design incorporates a directional drill under a City-owned canal. Fee: \$100,239		
	Turnpike 48" Force Main Relocation, Broward County, FL	PROFESSIONAL SERVICES 2006	CONSTRUCTION (If Applicable) 2006
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CA. CMA was the prime consultant of a design-build team tasked to design, permit and construct the relocation of a 48" Force Main in the Turnpike Right-of-Way. This project involved the open cut installation of approximately 5,400 LF of 48" DIP followed by the removal of the existing PCCP. Coordination activities included Florida's Turnpike Enterprise of the Florida Department of Transportation, South Florida Water Management District, the Florida Department of Environmental Protection and Broward County Water and Wastewater Services. The project schedule was an aggressive 112 days from Notice to Proceed to completion. Fee: \$380,969; Cost: \$4,570,000		
	Improvements to Force Main Crossing Intercoastal Waterway at Hillsboro Blvd., Deerfield Beach, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If Applicable) 2014
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE CA. CMA designed the Subaqueous Forcemain Crossing for the City of Deerfield Beach. The forcemain was over 500 LF long and approximately 60 feet deep with 14 inch diameter HDPE. It crosses the intercoastal waterway at Hillsboro Boulevard to replace an existing force main. The project included the design of a directional drill under the intercoastal. Extensive permitting with FDEP, USACE and FDOT, as well as bidding assistance and construction administration services were also performed. Fee: \$ 80,834; Cost: \$426,050		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Derrick Smith, CFM, LEED AP	13. ROLE IN THIS CONTRACT Construction Administration	14. YEARS EXPERIENCE	
		a. TOTAL 10	b. WITH CURRENT FIRM 9
15. FIRM NAME AND LOCATION (City and State) Chen Moore and Associates, Fort Lauderdale, FL			
16. EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Building Construction Management		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)	
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mr. Smith serves as a construction project administrator and engineering inspector for the City of Coral Springs. Mr. Smith has over 10 years of experience as construction project administrator. His duties include program management of various municipal and commercial buildings. Mr. Smith ensures that projects are finished on time and under budget often providing cost effective solutions to contractors on behalf of the project owner. This includes analyzing change order requests to ensure cost accuracy and constructability.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a.	(1) Aerial Crossing Rehabilitations, Margate, Florida	2014	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm CA. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting for the rehabilitation of 12 aerial utility crossings and the replacement of one aerial water main crossing. These sites were selected based on a previous study of all aerial utility crossings in the City completed by CMA. The current project involves design of the pipeline rehabilitations, repairs and replacement including external coating, supports, fan guards, air release valves and isolation valves. Coordination with multiple drainage districts and regulatory agencies is necessary for the permitting of these improvements because of the various ownership of the canals. Fee: \$49,628		
b.	(1) C14 WM Canal Crossing, Margate, Florida	2015	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm CA. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting of water main improvements. The improvements were identified as part of a separate task order in which the water model for the City was updated. The C-14 canal crossing was proposed in order to provided redundancy to the distribution system. The improvements include a directional drill under the SFWMD C-14 canal and over 2,000 LF of water main installation to provide redundancy in the service area. Permitting coordination is required with both SFWMD and the ACOE for special approvals. Fee: \$70,752		
c.	(1) Force Main Modeling and Design, Margate, Florida	2015	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm CA.. CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform modeling, design and permitting for force main improvements. The modeling is based on the previous models that CMA completed for the City and will evaluate two different options for connecting existing force mains. These connections will allow the City to direct the flow to their other wastewater treatment plant. In addition to the modeling, the project includes the design and permitting of over 2,600 LF of new force main and abandonment of over 1,000 LF of existing force main. The new force main design incorporates a directional drill under a City-owned canal. Fee: \$100,239		
d.	(1) Broward County BCWWS WWED UAZ 307/315 Utilities Broward County, FL	2009	2011
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm CA. Broward County Water and Wastewater's Utility Analysis Zone (UAZ) 307 / 315 Utilities project included replacing existing undersized water main and providing sanitary sewer for County Service Areas in an urban neighborhood within the City of Dania Beach, near Griffin Road and Ravenswood Road. The main technical components included replacing a 1,900 LF of 12-inch water main on Ravenswood Road, replacing 10,961 LF of 8-inch of residential water mains, including services, providing sanitary sewer to connect existing septic tanks and rehabilitating and installation of new lift stations and force main. Fee: \$1,078,598; Cost: \$8,378,598		
e.	(1) Improvements to Force Main Crossing Intercoastal Waterway at Hillsboro Blvd., Deerfield Beach, FL	2014	2014
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm CA. CMA designed the Subaqueous Forcemain Crossing for the City of Deerfield Beach. The forcemain was over 500 LF long and approximately 60 feet deep with 14 inch diameter HDPE. It crosses the intercoastal waterway at Hillsboro Boulevard to replace an existing force main. The project included the design of a directional drill under the intercoastal. Extensive permitting with FDEP, USACE and FDOT, as well as bidding assistance and construction administration services were also performed. Fee: \$ 80,834; Cost: \$426,050		

Professional Service Industries, Inc. (PSI)

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Dhuruva (Dru) Badri, PE	Geotechnical Engineer	a. TOTAL	b. WITH CURRENT FIRM
		12	12

15. FIRM NAME AND LOCATION (City and State) **Professional Service Industries, Inc. - Miami, Florida**

16. EDUCATION (DEGREE AND SPECIALIZATION) <ul style="list-style-type: none"> MS in Geotechnical Engineering, University of Florida, 2003 BE in Civil Engineering, National Institute of Technology Karnataka, India, 2001 	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Engineer, Florida #68718 - Geotechnical
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18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Port of Miami Tunnel (SR A1A), Preliminary Feasibility Study, Miami-Dade County, Florida	2003 – ongoing	
a. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Involved in the preparation of numerous Geotechnical Data Reports which compiled the results of the field and laboratory tests associated with the geotechnical works on land and in water. The field work involved extensive permitting and coordination with various government and environmental entities. The field work involved the use of methodologies such as SPT, rock coring, permeability testing, CPT, Seismic-CPT etc. Due to time restrictions from cruise operations, field work sometimes required working on 24 hour operation. Role: Project Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
FPL Overtown-Venetian Transmission Line Miami & Miami Beach, FL	2007-2014	
b. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Professional Service Industries, Inc. established a custom geotechnical exploration program to support FPL. The proposed method of installation of the transmission line is primarily by horizontal direction drilling (HDD) to minimize impacts to the submerged aquatic resources in Biscayne Bay. Cut and cover methods are being evaluated for the landside portions (Miami Beach) of the project. Horizontal Direction Drilling was put into practice to minimize drilling impacts on the submerged aquatic resources. PSI's services included obtaining data regarding the general subsurface conditions along the proposed alignments by means of exploratory borings (SPT and rock core), as well as laboratory testing of the collected samples. The laboratory testing was conducted for classification purposes and to provide pertinent engineering characteristics of the material. Role: Geotechnical Engineer PSI's Fees: \$550,000	<input checked="" type="checkbox"/> Check if project performed with current firm	
BHSF West Kendall – Early Learning Center Parking Garage, Miami, Florida	2014 – on-going	
c. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The proposed development will include the construction of a six-story parking garage structure with a total height of 75 feet. The structure is planned to have a concrete slab-on-grade floor system with a finished floor elevation set at elevation +11.5 feet, similar to that of the main hospital building. Role: Geotechnical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
Baptist Health South Florida – Primary Care Hub, Pinecrest, Florida	2013- ongoing	
d. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The proposed development includes the construction of a three-level structure with an attached parking garage within a ± 2.35 acre tract of land. The total height of the building is expected to be 48 feet. The building is planned to have a concrete slab-on-grade floor system. The development will also include surrounding paved parking/drive areas and a storm water management system. Role: Geotechnical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	
Proposed N.W. 114th Avenue Park, Doral, Florida	2014 – ongoing	
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE The overall project consists of the following new components: Playfields consisting of soccer fields, a baseball field, tennis courts, and basketball courts. A two-story recreational center and a pedestrian bridge across N.W. 114th Avenue that will connect the recreational center to the playfields situated east of N.W. 114th Avenue. Miscellaneous structures consisting of restroom facilities, storage areas, band shell and shelter structures at various locations within the property. Paved parking/drive areas within the northern perimeter of the property and drainage systems consisting of exfiltration trenches and retention ponds. Role: Geotechnical Engineer	<input checked="" type="checkbox"/> Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT
(Complete one Section E for each key person.)

12. NAME Morgan Dickinson, PE		13. ROLE IN THIS CONTRACT Professional Engineer/ Senior Contract Support		14. YEARS EXPERIENCE <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">a. TOTAL</td> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">b. WITH CURRENT FIRM</td> </tr> <tr> <td style="text-align: center;">35</td> <td style="text-align: center;">4</td> </tr> </table>		a. TOTAL	b. WITH CURRENT FIRM	35	4
a. TOTAL	b. WITH CURRENT FIRM								
35	4								
15. FIRM NAME AND LOCATION (City and State) Professional Service Industries, Inc. (PSI), Fort Lauderdale, Florida									
16. EDUCATION (DEGREE AND SPECIALIZATION) Master of Science in Geotechnical Engineering, Northwestern University, 1980 Bachelor of Science in Civil Engineering, University of Colorado, 1978			17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) <ul style="list-style-type: none"> Registered Professional Engineer - Florida PE #37557, 1986 Special (Threshold Inspector) – Florida SI # 1029 Registered Professional Engineer – Colorado PE # 20191, 1982 						
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards) <div style="display: flex; justify-content: space-between;"> <ul style="list-style-type: none"> FDOT CTQP Quality Control Manager FDOT CTQP Asphalt Roadway level II Advanced Maintenance of Traffic <ul style="list-style-type: none"> American Society of Civil Engineers (ASCE) Florida Engineering Society (FES) National Society of Professional Engineers (NSPE) </div>									
19. RELEVANT PROJECTS									
a.	(1) TITLE AND LOCATION (City and State) Fort Lauderdale Airport Runway Expansion Project Broward County, Florida		(2) YEAR COMPLETED <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2012-2014</td> <td style="text-align: center;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2012-2014	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
	2012-2014								
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Senior Project Manager of Quality Assurance Materials Testing for the FLL Airport Expansion. Broward County Aviation Dept. awarded PSI USA the Largest Field and Laboratory Construction Materials Testing contracts ever awarded in the State of Florida. PSI's Role is to complete Quality Assurance Materials Testing (QAMT) of the Expansion of Runway 9R-27L. Project started in February 2012 and was completed September 2014. PSI Estimated Fees: \$11,500,000 Entire Project Valuation: \$800M									
b.	(1) TITLE AND LOCATION (City and State) Florida Turnpike System Orlando, Florida		(2) YEAR COMPLETED <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2010-2011</td> <td style="text-align: center;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2010-2011	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
	2010-2011								
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Role: Interim Project Manager providing Asphalt Plant Inspections, construction materials verification testing and technician support.									
c.	(1) TITLE AND LOCATION (City and State) FDOT District IV & VI, Materials Testing Continuing Contract – Davie, Florida		(2) YEAR COMPLETED <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2010-2011</td> <td style="text-align: center;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2010-2011	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
	2010-2011								
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Role: Interim Project Manager providing construction material laboratory testing support.									
d.	(1) TITLE AND LOCATION (City and State) I-595 HOV lanes Broward County, Florida		(2) YEAR COMPLETED <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2010-2011</td> <td style="text-align: center;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2010-2011	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
	2010-2011								
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Widening of I-595, for approximately 12 miles, and including 61 bridge structures. Role: Interim Project Manager of QC Manager & Team.									
e.	(1) TITLE AND LOCATION (City and State) Seminole Coconut Casino Expansion and Parking Garages – Coconut Creek, Florida		(2) YEAR COMPLETED <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2010</td> <td style="text-align: center;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2010	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
	2010								
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm The project includes expansion of the existing casino facilities and construction of a 7-story precast concrete parking garage. Mr. Dickinson served as project manager for the threshold inspection and QA services for the Seminole Tribe.									
f.	(1) TITLE AND LOCATION (City and State) Marlins Stadium Parking Garages Dade County, Florida		(2) YEAR COMPLETED <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">PROFESSIONAL SERVICES</td> <td style="width:50%; border-bottom: 1px solid black; text-align: center;">CONSTRUCTION (If applicable)</td> </tr> <tr> <td style="text-align: center;">2011</td> <td style="text-align: center;"></td> </tr> </table>			PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	2011	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)							
	2011								
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm This project includes construction of 4 precast parking garages adjacent to the new stadium. Mr. Dickinson served as project manager for the QC material testing services for the contractor.									

Stoner and Associates, Inc.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME James D. Stoner, P.S.M.	13. ROLE IN THIS CONTRACT Principal Professional Land Surveyor	14. YEARS EXPERIENCE	
		a. TOTAL 40	b. WITH CURRENT FIRM 26
15. FIRM NAME AND LOCATION <i>(City and State)</i> Stoner & Associates, Inc. – Davie, Florida			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> Palm Beach Community College Associates of Science in Land Surveying		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> State of Florida Licensed Professional Land Surveyor and Mapper License No. LS4039	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Florida Surveying and Mapping Society American Congress on Surveying and Mapping			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If Applicable)</i>
a.	Southwest Water Treatment Plant City of Sunrise, Florida	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Principal Professional Land Surveyor Prepare an As-Built Survey of the newly constructed 280 linear foot water main.		
b.	Fire Station No. 4 City of West Palm Beach, Florida	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal Professional Land Surveyor Prepare a Topographic, Utility, and Specific Purpose (Tree) Survey for the City of West Palm Beach Fire Station No. 4.		
c.	Fire Station No. 50 City of Coconut Creek, Florida	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Principal Professional Land Surveyor Prepare a Boundary, Topographic, Utility, and Specific Purpose (Tree) Survey for the City of Coconut Creek Fire Station No. 50. Prepare a written legal description and sketch for various utility easements to be vacated or dedicated.		
d.	Park City Water Treatment Plant City of Sunrise, Florida	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Principal Professional Land Surveyor Prepare a Boundary Survey for the former Park City Water Treatment Plant for the City of Sunrise.		
e.	Broward College South Campus Master Pump Station City of Pembroke Pines, Florida	2014	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Principal Professional Land Surveyor Prepare a Topographic and Utility Survey for the Broward College South Campus Master Pump Station Project.		

United Engineering, Inc.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*

12. NAME Juan Fuentes, PE, SE, LEED AP	13. ROLE IN THIS CONTRACT Structural Project Manager	14. YEARS EXPERIENCE	
		A. TOTAL 15	B. WITH CURRENT FIRM 3
15. FIRM NAME AND LOCATION <i>(City and State)</i> UNITED Engineering, Inc., Miami, FL			
16. EDUCATION <i>(Degree and Specialization)</i> BS Civil Engineering, BS Architectural Engineering		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i> Florida Professional Engineer – Civil Illinois Structural Engineer – Structural	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> LEED Accredited Professional; State Director- Florida Structural Engineers Association			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Key West Continuing Services Contract, Key West, FL	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2011	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input checked="" type="checkbox"/> Check if project performed with current firm Structural project manager for miscellaneous projects under the continuing services contract. These services included, structural condition assessments and structural repair documents.		
b.	(1) TITLE AND LOCATION <i>(City and State)</i> City of Sunny Isles Continuing Services Contract, Sunny Isles, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2009	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project manager for continuing services contract for miscellaneous projects and tasks throughout the City.		
c.	(1) TITLE AND LOCATION <i>(City and State)</i> FIU Continuing Services Contract	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2004	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project manager for continuing services contract for miscellaneous projects throughout the campus. Projects included BA Building Glass Block Replacement; CMP Glass Block Replacement; Academic II Stairwell analysis; Chiller plant column repair		
d.	(1) TITLE AND LOCATION <i>(City and State)</i> Miami Dade Public Schools Continuing Services Contract, Miami, Florida	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2008	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project manager for continuing services contract for structural services. Projects included canopy addition at Aventura Waterways.		
e.	(1) TITLE AND LOCATION <i>(City and State)</i> Deering Estate Weir Glade Rehydration Project	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2008	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE <input type="checkbox"/> Check if project performed with current firm Project engineer for design of retaining wall and small dam to control the water flow to sensitive environmental area.		

NV5

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Barry R. Goldstein, PE	13. ROLE IN THIS CONTRACT Principal	14. YEARS EXPERIENCE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">a. TOTAL 31</td> <td style="width: 50%; text-align: center;">b. WITH CURRENT FIRM 11</td> </tr> </table>		a. TOTAL 31	b. WITH CURRENT FIRM 11
a. TOTAL 31	b. WITH CURRENT FIRM 11				
15. FIRM NAME AND LOCATION (City and State) NV5, Inc., Miami, FL					
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Geology/1983/Colorado State University M.S. Geotechnical/Civil Engineering/1988/ University of Colorado Ph.D. Course/1988-1989/Work Geotechnical Engineering, University of Massachusetts		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) New Hampshire No. 08216 Massachusetts No. 36550 Florida No. 51641 Maine No. 7227			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers - Deep Foundations Institute - National Society of Professional Engineers ASTM International - Florida Society of Professional Engineers - Instructor, Engineering Materials Lecture and Laboratory, University of Massachusetts, Amherst, 1989 - Instructor, Soil Mechanics Laboratory, University of Colorado, Denver, 1987/1988 - Researcher, National Science Foundation-Soil Stress Path Analyses - University of Colorado, Denver, 1988					
19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State) Force Main Tunnel between Virginia Key and Fisher Island under Norris Cut, Miami, FL		(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">PROFESSIONAL SERVICES On-Going</td> <td style="width: 50%; text-align: center;">CONSTRUCTION (If Applicable)</td> </tr> </table>		PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If Applicable)
PROFESSIONAL SERVICES On-Going	CONSTRUCTION (If Applicable)				
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Engineer, provided geotechnical engineering services for project which consisted of the design and construction for the replacement of the existing 54-inch sanitary sewage force main pipeline. This pipe takes flow to the Central District Wastewater Treatment Plant via Fisher Island under the Norris Cut Channel. NV5 is providing a Geotechnical Design Memorandum which is required for the Force Main tunnel proposed between Virginia Key and Fisher Island.				
(1) TITLE AND LOCATION (City and State) POM Government Cut Utility Relocation, Miami, FL		(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">PROFESSIONAL SERVICES 2013</td> <td style="width: 50%; text-align: center;">CONSTRUCTION (If Applicable)</td> </tr> </table>		PROFESSIONAL SERVICES 2013	CONSTRUCTION (If Applicable)
PROFESSIONAL SERVICES 2013	CONSTRUCTION (If Applicable)				
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Engineer - Design Build project in which NV5 provided the geotechnical engineering for the force main launch shaft located on Fisher Island, the force main retrieval shaft located in Government Cut (waterway). Also provided the geotechnical engineering for a second retrieval shaft at South Pointe Park on Miami Beach and the geotechnical designed installation details of the launch and retrieval shafts to facilitate the installation/removal of the sub-aqueous force main pipeline installed by micro-tunnel boring machine method (MTBM) across the Government Cut Channel. The bottom of the launch shaft was about 105 feet deep. The bottom of the retrieval shafts were about 100 feet deep. The shafts were design to be watertight using secant pile design and an inner grouted liner. Additional soil grouting was designed to assist in secant pile installation. A bottom plug with rock anchors were designed to resist hydrostatic pressures and provide a watertight seal. The retrieval shaft was located in the middle of the Government Cut waterway. This required designing a platform to allow construction of the retrieval shaft in about 40 feet of water.				
(1) TITLE AND LOCATION (City and State) MDWASD Installation of 36-inch D.I. Water Transmission Main, Miami, FL		(2) YEAR COMPLETED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">PROFESSIONAL SERVICES 2010</td> <td style="width: 50%; text-align: center;">CONSTRUCTION (If Applicable)</td> </tr> </table>		PROFESSIONAL SERVICES 2010	CONSTRUCTION (If Applicable)
PROFESSIONAL SERVICES 2010	CONSTRUCTION (If Applicable)				
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Principal Engineer, provided geotechnical engineering services for the Installation of 36-inch D.I. Water Transmission Main SW 147th Ave. from SW 72nd St. to SW 88th St. Performed a field investigation including engineering test borings and soil sampling. Used results from test borings and soils samples to determine soil profile and soil properties. Provided recommendations for installation of the water line including excavation and backfill. Provided recommendations for testing of backfill.				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT*(Complete one Section E for each key person.)*


12. NAME Eric J. Stern, PE	13. ROLE IN THIS CONTRACT Project Manager	14. YEARS EXPERIENCE a. TOTAL 16 b. WITH CURRENT FIRM 8	
15. FIRM NAME AND LOCATION <i>(City and State)</i> NV5 NV5, Inc., Miami, FL			
16. EDUCATION <i>(DEGREE AND SPECIALIZATION)</i> B.S. /1996/ Civil Engineering, Tufts University		17. CURRENT PROFESSIONAL REGISTRATION <i>(STATE AND DISCIPLINE)</i> Professional Registered Engineer Florida No. 57604	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i> Licensed Certified General Contractor in the State of Florida - American Society of Civil Engineers -Deep Foundations Institute - Geophysical Investigations utilizing ground penetrating radar technology. Trained by MALA Geosciences USA - Low Strain Pile Integrity Testing, Training by Pile Dynamics, Inc.			

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
POM Government Cut Utility Relocation Miami, FL	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If Applicable)</i>
a. (3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager - Design Build project in which NV5 provided the geotechnical engineering for the force main launch shaft located on Fisher Island, the force main retrieval shaft located in Government Cut (waterway). Also provided the geotechnical engineering for a second retrieval shaft at South Pointe Park on Miami Beach and the geotechnical designed installation details of the launch and retrieval shafts to facilitate the installation/removal of the sub-aqueous force main pipeline installed by micro-tunnel boring machine method (MTBM) across the Government Cut Channel. The bottom of the launch shaft was about 105 feet deep. The bottom of the retrieval shafts were about 100 feet deep. The shafts were design to be watertight using secant pile design and an inner grouted liner. Additional soil grouting was designed to assist in secant pile installation. A bottom plug with rock anchors were designed to resist hydrostatic pressures and provide a watertight seal. The retrieval shaft was located in the middle of the Government Cut waterway. This required designing a platform to allow construction of the retrieval shaft in about 40 feet of water.	[X] Check if project performed with current firm	
b. (1) TITLE AND LOCATION <i>(City and State)</i> Force Main Tunnel between Virginia Key and Fisher Island under Norris Cut Miami, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES On-Going	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager- Provided geotechnical engineering services for project which consisted of the design and construction for the replacement of the existing 54-inch sanitary sewage force main pipeline. This pipe takes flow to the Central District Wastewater Treatment Plant via Fisher Island under the Norris Cut Channel. NV5 is providing a Geotechnical Design Memorandum which is required for the Force Main tunnel proposed between Virginia Key and Fisher Island.	[X] Check if project performed with current firm	
c. (1) TITLE AND LOCATION <i>(City and State)</i> Brickell Citicentre Miami, FL	(2) YEAR COMPLETED PROFESSIONAL SERVICES On-Going	
(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE Project Manager - Currently providing testing services to \$1 Billion Brickell Citicentre project in Miami, Florida. This Project spans three city blocks in downtown Miami. We have been required to support the quality control testing for the simultaneous construction of multiple 20 to 45 level structures and general site development.	[X] Check if project performed with current firm	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME Garfield L. Wray, PE, D.GE.	13. ROLE IN THIS CONTRACT Sr. Geotechnical Engineer	14. YEARS EXPERIENCE <table border="1"> <tr> <td>a. TOTAL 32</td> <td>b. WITH CURRENT FIRM 2</td> </tr> </table>		a. TOTAL 32	b. WITH CURRENT FIRM 2
a. TOTAL 32	b. WITH CURRENT FIRM 2				
15. FIRM NAME AND LOCATION (City and State)  NV5, Inc., Miami, FL					
16. EDUCATION (DEGREE AND SPECIALIZATION) B.S. Civil Engineering University of the West Indies, 1983 M.S. Geotechnical/Civil Engineering Howard University, 1988		17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Registered Engineer Florida No. 49734 California No. 50556			
18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) American Society of Civil Engineers - Deep Foundations Institute					

19. RELEVANT PROJECTS

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)
a. (1) Canal Pipe Crossings Margate, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for geotechnical study for replacement of 30-inch and 36-inch diameter water and waste water force mains crossing 70-foot wide canal. Services include drilling with a four-foot wide limited access rig.	[X] Check if project performed with current firm	
b. (1) 54-Inch Tapping Shaft Miami Beach, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for geotechnical study for a new tapping shaft around a 54-Inch force main shaft is 16' x 18' x 18' deep.	[X] Check if project performed with current firm	
c. (1) City Hall and Cultural Building Marathon, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for geotechnical study for new 16,000 sf elevated one-level City Hall and Cultural Arts Building. Provided recommendations for augered cast-in-place pile foundations.	[X] Check if project performed with current firm	
d. (1) Port Everglades Sand Bypass FL Lauderdale, FL (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Project Manager for geotechnical and geophysical exploration for proposed 20-acre sand bypass to be excavated to -47' NAVD. Performed core borings rock strength testing, seismic refraction survey. Discussed potential rock excavation methods and possible need for blasting.	[] Check if project performed with current firm	

Southern Underground Industries

JUAN BARRENECHE, P.E.

Vice President/Project Manager/Estimator

Mr. Barreneche has over 11 years' experience in civil engineering, construction management and cost estimating in the field of underground utility construction. As Senior Project Manager and Estimator his experience developed around projects involving the installation of water mains, drainage improvements, and sanitary sewer construction. He has obtained further specialization in neighborhood improvement projects, design-build projects, directional drilling, PCCP, box culvert construction, pump stations, treatment plants and sewer force mains for various publicly bid projects for municipalities throughout South Florida. As a Civil Engineer, he has combined technical knowledge and design thought processes with underground construction experience, thereby ensuring the success of design-build partnerships and broadening the capabilities of his company.

KEY PROJECTS:

Southern Underground Industries- July 2014 – Present **City-Wide High Tide Mitigation Project** **City of Miami Beach, FL.**

Project Manager for this \$1.8 million project which consisted of the installation of approximately 100 inline check valves on the drainage outfall system throughout the City of Miami Beach. Some areas required design-build solutions to ensure protection from tidal flooding prior to the October King Tide. Project also included the installation of over 13 drainage structures, 400 LF of 30" RCP, and repairs to drainage force mains.



David Mancini & Sons- July 2011 – July 2014 **Biscayne Point Neighborhood Improvement Project, City of Miami Beach, FL.**

Project Manager for this \$17.7 million neighborhood improvement project. The project began as a standard straight bid unit price contract (\$10.9M) and was converted in to a design-build project by the City after a series of deficiencies with design were exposed and corrected by DMSI thereby adding value to the neighborhood. Project improvements consist of water and stormwater improvements, including pump stations, and above ground improvements to lighting, sidewalks, curb gutter, and roadway.



Sunset Islands 1 & 2 Neighborhood Imp. Project, City of Miami Beach, FL.

Project Manager for this \$5.2 million neighborhood improvement project. The project includes water and stormwater improvements, including the renovation of stormwater outfalls and the installation of valley gutters with full roadway reconstruction in a high-end exclusive community. Major challenges to this unit price contract were extensive conflicts with existing utilities and a high water table. Project is ongoing.



HIGHLIGHTS

Licensed Professional Civil Engineer in the State of Florida, PE#67662

Certified Underground Utility and Excavation Contractor, CUC1224698

11 years experience in underground construction, specializing in Design-Build and HDD.

9 years of Estimating experience on over 100 publicly bid underground and roadway construction projects.

EXPERIENCE

*Vice President
 July 2014 to Present
 Southern Underground Industries, Inc.*

*Senior Project Manager
 July 2011 to July 2014
 David Mancini & Sons, Inc.*

*Project Manager
 June 2010 to July 2011
 GlobeTec Construction.*

*Project Manager/Estimator
 Feb. 2005 to June 2010
 Ric-Man International.*

*Associate Engineer
 May 2003 to Feb. 2005 –
 Chen & Associates*

EDUCATION

*University of Florida
 Bachelor in Science in
 Civil Engineering,
 May 2003*

*Belen Jesuit Preparatory
 High School, 1997*

TRAINING

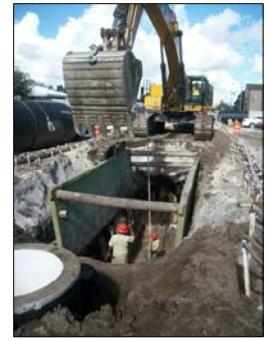
*Proficient in Use of:
 PROGEN-JOC,
 Primavera, MS Excel,
 AutoCAD, ArcGIS*

GlobeTec Construction- June 2010 – July 2011

McKinley Street Interceptor Project

City of Hollywood, FL.

Project Manager for this \$11.5 million gravity sewer project. Preliminary investigations and utility relocations were critical to ensuring that the 7,460 LF of 66" PCCP gravity sewer could be installed without delay. The project includes two 96" steel casings installations under FDOT and FEC Railroad via sand-shield tunnel. Varying soil and groundwater conditions proved to be the major challenges of this project.



Belcher Road 48" Water Main Replacement

Pinellas County, FL.

Project Manager for this \$7.5 million water main replacement project. The project included installation of 15,000 LF of 42" DIP and 12"/16" DIP parallel high line in the same trench. The project includes a jack and bore installation of a 60" steel casings under FDOT roadway. Dividing work and MOT into 5 phases and working within 10 ft of existing deteriorating 48" PCCP water main proved to be the greatest challenges of this project.



Ric-Man International- February 2005 – June 2010

Nautilus Right-Of-Way Infrastructure Improvement Design-Build Project, City of Miami Beach, FL.

Project Manager for this \$35 million design/build project. Proposed improvements included storm water gravity and injection well systems, water distribution mains, sidewalks, street lighting, landscaping, milling and resurfacing. Close coordination with the Civil Engineering team member ensured that construction coincided with design production and permit acquisition. A major component of the Project consisted of the installation of 6 drainage pump stations in this residential neighborhood.



Furnish & Install 20" HDPE Along Rickenbacker Intracoastal Waterway Bridge, Miami-Dade Water and Sewer Dept., FL.

Estimator and Project Manager for this \$1.7 million design/build project. Oversaw and reviewed directional drill design and was present to witness all aspects of this 4000 LF directional drill across Biscayne Bay. Worked closely with permitting agencies to accommodate drilling path and methods. Several challenges during this difficult bore proved to be excellent learning opportunities and made the success of this bore most rewarding. Project also included the pipe removal from beneath the Old Bay Bridge.



Replacement of 48" Force Main Design-Build Project, Broward County, FL.

Estimator and Project Manager for this \$4.4 million design/build project. Included over 5,000' of replacement of existing 48" PCCP in DOT ROW relocated and replaced with 48" Ductile Iron Pipe in Broward County ROW. Met aggressive 8 month schedule including design, permits and construction by working closely with Civil Engineering Subcontractor (Chen and Associates). Performed constructability reviews and assisted with permit acquisition. Project included a 48" subaqueous crossing.



NE 6th Avenue Drainage Improvements, City of Oakland Park, FL.

Estimator and Project Manager for this \$3.4 million project which included the installation of over 2,630 feet of 4x6 box culvert. Original design called for the box culvert to be installed vertically which would have resulted in major utility support and massive de-watering. Worked with the Engineer to modify to a horizontal alignment and added an 8" water main as a design-build change order.



***Miami River Crossing, 30" Water Main via Directional Drill,
Miami-Dade Water and Sewer Department, FL.***

Managed this converted design-build project which included installation of 1,000 linear feet of 30" water main which was redesigned from a proposed open cut across the River to be installed via horizontal directional drill, thus eliminating impact to the waterway and park. Personally drafted the proposed directional drill design path and assisted with field operations. Project included associated connections to existing water main and removal of existing 20" water main from the Miami River.



***University of Florida TREC Water and Sewer Improvements,
Homestead, FL.***

Estimator and Project Manager for this gravity sewer system project which included the installation and connection of a package sewer treatment plant. Approximately 1500 linear feet of gravity sewer, lift station, treatment plant, drain field, and water main were installed with minimal impact to research operations. Completion of the project included abandonment of existing septic tanks to satisfy DERM requirements.



***12" Force Main Replacement Design-Build,
City of North Bay Village, FL***

Project Manager for this time-sensitive force main replacement. Damaged section of force main was replaced with new HDPE forcemain installed via Horizontal Directional Drill and connected underwater to existing force main in Biscayne Bay. Personally drafted the proposed directional drill design path and was involved with field operations including underwater inspections.



***Turnpike and Sunrise Boulevard Crossings,
City of Plantation, FL***

Estimator and Project Manager for this Design-Build Utility Relocation Project. Three horizontal directional bores were designed in-house to relocate a sewer force main and a water main across the Florida Turnpike to accommodate impeding widening project. Project also included the design and construction of a 20-inch diameter aerial canal crossing for the force main relocation. As a result of our timely design, permitting, and construction, the City was able to complete the relocations without delaying the Turnpike project.



***24" Water Main Installation Project,
City of Wellington, FL***

Project Manager for the Installation of approximately 6,000 linear feet of 24-inch diameter PVC water main. The project included two major utility crossings and a connection to the City's water treatment plant. Additional duties included preparing and implementing extensive Maintenance of Traffic plans, and assisting with daily field operations.

REFERENCES AVAILABLE UPON REQUEST

RESUME OF BELSERI COMERFORD

- 2008 - PRESENT **SOUTHERN UNDERGROUND INDUSTRIES, INC.**
PRESIDENT
With over 30 years experience in Underground Construction, Mr. Comerford has worked in all aspects of the Utility Industry. As a licensed Contractor he specializes in Sanitary Sewers, Water Main, Force Mains, Storm Drainage, Road Construction, Pump Stations, Directional Drilling and Infrastructure Lining.
- 2006 -2008 **INTERCOUNTY ENGINEERING, INC.**
SUPERINTENDANT/ESTIMATOR
Prepared estimates for various types of municipal work. Supervised installation of pump stations and all facets of underground utility work.
- 2004 -2006 **RIC-MAN INTERNATIONAL, INC.**
MAIN LINE FOREMAN
Supervise main line crew during construction of water Mains, sanitary sewers, and drainage installation, Furthermore, responsible for overseeing well-point Installation as well as cleaning structures and pipe lines.
- 2004 - 2003 **ASTALDI CONSTRUCTION**
FOREMAN
Supervise crew during construction of sanitary Sewers and drainage installation.
- 2002 -2003 **TELCON, INC**
FOREMAN
Supervised crew during construction of sanitary sewers, & water main installation, for FPL Transmission Mainline.
- 2002 – 1994 **MINORITY CONTRACTOR**
Minority contractor for Broward County, Broward County School Board, Lennar Homes & Puite Homes. Installing Water Drainage & Sewer Mains with Projects of \$25,000 to \$700,000.
- 1993 – 1991 **TELCON & LANZO CONSTRUCTION**
FOREMAN/ OPERATOR
Supervise crew during construction of sanitary Sewers and drainage installation
- 1991-1986 **ROCCO FERRERA & Co.**
OPERATOR

RESUME OF JOSE G. CACIQUE

- 2014 - PRESENT **SOUTHERN UNDERGROUND INDUSTRIES**
PIPELINE FOREMAN
Supervises crews on the installation of water mains, sewer mains, and drainage structures. Specializes in large diameter installations in high water conditions. Enhanced his shoring and dewatering experience for deep excavations
- 2004 -2014 **GLOBETEC CONSTRUCTION**
PIPELINE FOREMAN
Planned and supervised installation of large diameter pipelines, precast structures, wellpoints, and all facets of underground utility work. Worked on projects throughout Florida
- 2000 - 2004 **UNITED ENGINEERING CONTRACTORS**
PIPELAYER/FOREMAN
Transitioned from a pipelayer position in the trenches to a leadership role as a Pipe Foreman on water, sewer, and drainage installations. Enhanced his skills in reading plans, layout, and sequencing of work.
- 1997 – 1998 **MORA ENGINEERING**
LABORER/PIPELAYER
Began working as a laborer, assisting in the trenches with the installation of water, sewer, and drainage facilities and transitioned into a pipelayer position.

Jose G. Cacique - Pipe Foreman

Personal Work Experience

Project Name	Owner	Scope	Contract Amount	Time Period
S. Andrews Avenue & 17th Street Large Water Main Replacement (SUI)	Miami Beach, FL	Installation of approx. 300 LF of 20" DIP Water Main on NE 17th Ave, including installation of two 18" Linestops and abandonment of 18" Water Main through hospital grounds. Project included roadway restoration.	\$ 400,000	2015-2015
High-Tide Mitigation Project (SUI)	Miami Beach, FL	Installation of approx. 100 Inline Tidal Control Valves throughout the City ranging in size from 8" to 48", including installation of 12 large precast structures at outfalls, a 42" Storm Water Collection System, 24" Force Main, and 16" Butterfly Valves.	\$ 1,748,315	2014-2015
South Service Area/East Service Area 36" Water Main and 20" Reclaimed Water Main	Orange County, FL	Installation of 24,500 LF of 36" WM, 14,500 LF of 20" RWM, 6" thru 16" water connection to existing distribution systems, construction of a 12 ft. wide stabilized access roadway, 410 LF of 54" jack and bore, 2,130 FT of 36" HDD and one bridge crossing.	\$ 11,030,756	2012-2014
Dixie Wellfield Raw Water Pipeline Replacement	City of Fort Lauderdale, FL	installation of 4,700 LF of 30" DI Raw Water Main, including isolation valves, ARV, fittings, concrete encasement, all flushing and testing, and pavement restoration.	\$ 1,906,016	2012-2012
Belcher Road 48-Inch Water Main Replacement	Pinellas County, FL	Replacement of existing 48" PCCP Water main with new 42" DIP water main (Approx. 15,000 LF)	\$ 7,759,299	2010-2012
Rolling Green Stromwater and Water Main Project	City of Boynton Beach, FL	Installation of 30,000 LF of 6" and 8" Water Main, 3,000 LF of 24" HDPE Exfiltration Trench, 35,300 LF Swale Construction, including Tyoe C and E Inlet Strutcures, Pavement Milling and Resurfacing.	\$ 2,732,400	2009-2010
South Mainland Transmission Main	City of Cocoa, FL	Instalaltion of 36,000 LF of 42: DIP Water Main, incl. 4 Mircotunnels (66" Steel - 1,000 LF) and a 42" Aerial Crossing (Steel, 700 LF)	\$ 17,399,700	2008-2009
Service Areas 4 & 6 Wastewater and Stormwater Project	City of Marathon, FL	Installation of 106,000 LF of Vacuum Sewer, 18,000 LF Force Main, 43,000 LF Storm Sewer, 1000+ sewer lateral connections, and 43 Drainage Wells	\$ 30,945,661	2007-2011
Lake Region Transmission Main	Palm Beach County, FL	80,000 LF various sized (16" to 30") Water Mains with bridge crossings, 10,000 LF of 30" & 24" Raw Water Main, and 24" WM aerial crossing	\$ 14,765,815	2007-2008
Royal Palm Ranches & Lake Marantha Estates	City of Cooper City, FL	Installation of 6,668 LF of 8-inch WM, 70 LF of 6-inch WM, and approximately 2,993 LF of various sized HDPE, including all associated restoration.	\$ 2,000,698	2006-2006
Terra Mar Island Sanitary Sewers	City of Pompano Beach, FL	Construction of approx. 2,100 LF of 8-inch sanitary sewer line, 23 manholes, 39 sewer service laterals, 280 LF of 12-inch storm drainage pipe, two basins and all required pavement restoration.	\$ 811,124	2006-2006
Sanitary Sewer System and Water Main Replacement (Westgate Lake Manor)	City of Plantation, FL	Installation of 7,750 LF of 8-inch graity sewer with 42 precast sanitary manholes, 7,500 LF of water main, 4,000 LF force main, and a new duplex submersible lift station, including 4 package grinder lift stations.	\$ 3,543,781	2005-2007
Citywide Drainage Imp Phase IIB Storm Sewer Collection System	City of West Miami, FL	Construction of stromwater collection and treatment system including gravity collection, 12,278 LF of 15" to 60" drainage pipe, 2,400 LF of french drain, 10,047 LF of 48" DIP FM and 175+ drainage structures	\$ 5,832,493	2005-2006
Sanitary Sewer System Improvements Davis Road at Waterview Estates	Village of Palm Springs, FL	Installation of 2,000 LF of 8-inch SDR 35 PVC sanitary sewer gravity main complete with precast manholes and service laterals, 320 LF of 6-inch dia. water main, and all necessary asphalt, concrete and sod restoration work.	\$ 378,190	2005-2006
Vaccum Sewer System Improvements, 10th Ave North & Kirk Road	Village of Palm Springs, FL	Installation of 13,000 LF vaccum sewer collection main, 170 vacuum valves/pits, 1,200 LF water main, and CMU vacuum pump station complete with bio-odor control and 200 kW emergnecy generator	\$ 1,955,253	2004-2005
24" Reclaimed WM at PGA WWTP and 16" & 20" Reclaimed WM at ALT, A-1-A	Seacoast Utilities Authority, FL	Installation of 3,470 LF of 24", 3,750 LF of 16" and 860 LF of 20" reclaimed main, including piping of 5,560 LF of 24" main and 5,500 LF of 16" main	\$ 792,662	2004-2004

RESUME OF DAVID G. CACIQUE

- 2014 - PRESENT **SOUTHERN UNDERGROUND INDUSTRIES**
PIPELINE/SPECIALTY FOREMAN
Supervises specialty work on backflow preventors, pump stations, insertion valves, as well as all facets of pipeline construction from small to large diameter. Also brings expertise in dewatering and installation of wellpoint systems.
- 2008 -2014 **GLOBETEC CONSTRUCTION**
PIPELINE FOREMAN
Planned and supervised installation of large diameter pipelines, precast structures, wellpoints, and all facets of underground utility work. Worked on projects throughout Florida
- 2006 -2008 **DOWNRITE ENGINEERING**
PIPELINE FOREMAN
Supervise main line crew during construction of water Mains, sanitary sewers, and drainage installation, Furthermore, responsible for overseeing well-point Installation as well as cleaning structures and pipe lines.
- 2004 - 2006 **UNITED ENGINEERING CONTRACTORS**
PIPELINE SUPERINTENDANT
Managed crews installing water, sewer, and drainage improvements. Responsible to sequencing and scheduling of work to ensure maximum productivity.
- 2003 -2004 **FELIX ASSOCIATES**
PIPELINE FOREMAN
Supervise main line crew during construction of water Mains, sanitary sewers, and drainage installation,
- 2000 – 2003 **NORTHERN DIRT WORK UNDERGROUND**
TRACKHOE OPERATOR/FOREMAN
Began working as trackhoe operator installing water, sewer, and drainage pipeline and structures and transitioned into a leadership position as Foreman.
- 1997 – 2000 **MORA ENGINEERING**
LABOERER/OPERATOR
Began working as a laborer, assisting in the trenches with the installation of water, sewer, and drainage facilities and transitioned into a trackhoe operator position.

David G. Cacique - Pipe Foreman

Personal Work Experience

Project Name	Owner	Scope	Contract Amount	Time Period
Backflow & Bypass Domestic Water Project (SUI)	Jackson Memorial Hospital, FL	Installation of 4 dual backflow assemblies (8" size) around highly congested areas within hospital grounds. Included a 4" backflow protection system wihtin a building.	\$ 354,000	2015-2015
High-Tide Mitigation Project (SUI)	Miami Beach, FL	Installation of approx. 100 Inline Tidal Control Valves throughout the City ranging in size from 8" to 48", including installation of 12 large precast structures at outfalls, a 42" Storm Water Collection System, 24" Force Main, and 16" Butterfly Valves.	\$ 1,748,315	2014-2015
South Service Area/East Service Area 36" Water Main and 20" Reclaimed Water Main	Orange County, FL	Installation of 24,500 LF of 36" WM, 14,500 LF of 20" RWM, 6" thru 16" water connection to existing distribution systems, construction of a 12 ft. wide stabilized access roadway, 410 LF of 54" jack and bore, 2,130 FT of 36" HDD and one bridge crossing.	\$ 11,030,756	2012-2014
Dixie Wellfield Raw Water Pipeline Replacement	City of Fort Lauderdale, FL	installation of 4,700 LF of 30" DI Raw Water Main, including isolation valves, ARV, fittings, concrete encasement, all flushing and testing, and pavement restoration.	\$ 1,906,016	2012-2012
Belcher Road 48-Inch Water Main Replacement	Pinellas County, FL	Replacement of existing 48" PCCP Water main with new 42" DIP water main (Approx. 15,000 LF)	\$ 7,759,299	2010-2012
Rolling Green Stromwater and Water Main Project	City of Boynton Beach, FL	Installation of 30,000 LF of 6" and 8" Water Main, 3,000 LF of 24" HDPE Exfiltration Trench, 35,300 LF Swale Construction, including Tyoe C and E Inlet Strutcures, Pavement Milling and Resurfacing.	\$ 2,732,400	2009-2010
South Mainland Transmission Main	City of Cocoa, FL	Instalaltion of 36,000 LF of 42: DIP Water Main, incl. 4 Mircotunnels (66" Steel - 1,000 LF) and a 42" Aerial Crossing (Steel, 700 LF)	\$ 17,399,700	2008-2009
Service Areas 4 & 6 Wastewater and Stormwater Project	City of Marathon, FL	Installation of 106,000 LF of Vacuum Sewer, 18,000 LF Force Main, 43,000 LF Storm Sewer, 1000+ sewer lateral connections, and 43 Drainage Wells	\$ 30,945,661	2007-2011

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 1
21. TITLE AND LOCATION <i>(City and State)</i> Margate Aerial Crossing Margate, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (if Applicable) 2014

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Margate	b. POINT OF CONTACT NAME Kelly McAtee, P.E., LEED AP	c. POINT OF CONTACT TELEPHONE NUMBER 954-972-0828
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Chen Moore and Associates, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to evaluate 17 existing water and force mains aerially crossing canals within the City of Margate service area. The main objectives of this project were to collect updated pipe data to compare with existing city records, identify infrastructure failures, and provide recommendations where repairs or replacements are necessary for each crossing. The project involved thorough documentation of each crossing and final assessment of the condition for each pipe where repairs or replacements were necessary at each crossing at all 17 aerial crossings which were summarized and presented to the City of Margate in a final report including recommended maintenance work, cost estimates and prioritization of rehabilitation activities. Fee: \$24,490

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Subconsultant – Civil Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 2
21. TITLE AND LOCATION <i>(City and State)</i> Aerial Crossing Rehabilitations Margate, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (if Applicable) N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Margate	b. POINT OF CONTACT NAME Kelly McAtee, P.E., LEED AP	c. POINT OF CONTACT TELEPHONE NUMBER 954-972-0828
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting for the rehabilitation of 12 aerial utility crossings and the replacement of one aerial water main crossing. These sites were selected based on a previous study of all aerial utility crossings in the City completed by CMA. The current project involves design of the pipeline rehabilitations, repairs and replacement including external coating, supports, fan guards, air release valves and isolation valves. Coordination with multiple drainage districts and regulatory agencies is necessary for the permitting of these improvements because of the various ownership of the canals. Fee: \$49,628

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Subconsultant – Civil Engineering
b.	(1) FIRM NAME Stoner and Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Davie, FL	(3) ROLE Subconsultant - Surveying
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 3
21. TITLE AND LOCATION <i>(City and State)</i> Panama City Water & Sewer Improvements Joint Venture Panama	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES ongoing	CONSTRUCTION (if Applicable) ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Consorcio ICME & Chen Moore SA	b. POINT OF CONTACT NAME Aidel Saavedra	c. POINT OF CONTACT TELEPHONE NUMBER 507-6689-8971
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Chen Moore and Associates is designing and permitting 80 kilometers of water main and 17 kilometers of sanitary sewer through Panama City and the City of Chorrera. The areas included the neighborhoods of Chorrillo, Marbella, San Francisco, Bethania, Obarrio and Bellavista in Panama City and Palmitas, Sector Amaya, La Reina, El Nazareno, Loma Brigida, El Espino y Torolandia en Chorrera. The watermain ranged in size from 66" to 42". The 80 km of watermain also included five aerial crossings over streams and or rivers; five underground crossings and three directional drill crossings on main intersections. The water sistem also included the design of 14 water tanks with capacities that range from 100,000 to 1,000,000 gallons and the design of six pump stations. The sewer system included design of lines that range from 8 to 12 inches and collector lines for the downtown area that ranged from 16 to 30 inches in diameter. Fee: \$665,741.17

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Subconsultant – Civil Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

4

21. TITLE AND LOCATION (City and State)

C14 WM Canal Crossing
Margate, Florida

22. YEAR COMPLETED

PROFESSIONAL SERVICES
2015

CONSTRUCTION (if Applicable)
2015

23. PROJECT OWNER'S INFORMATION

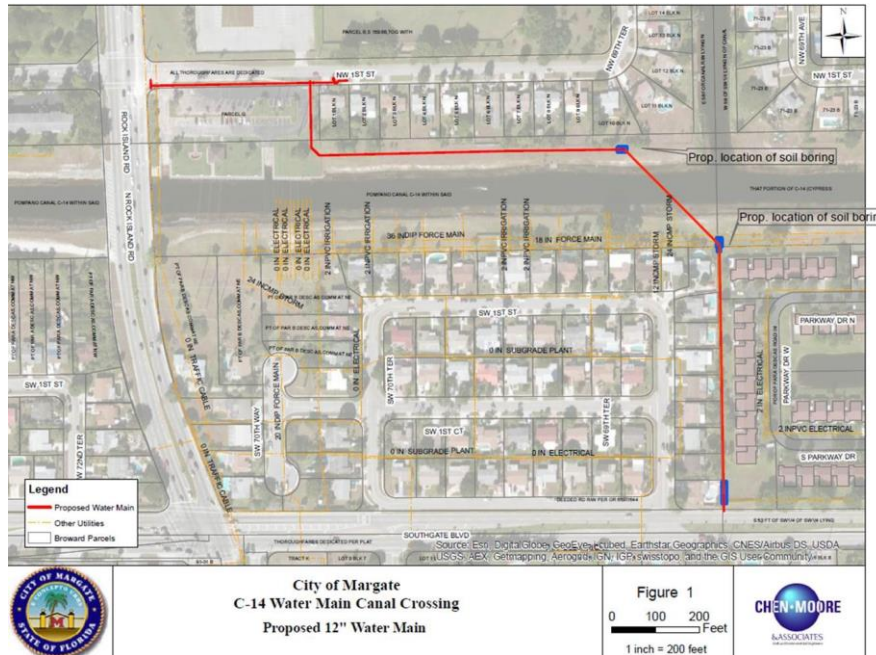
a. PROJECT OWNER
City of Margate

b. POINT OF CONTACT NAME
Kelly McAtee, P.E., LEED AP

c. POINT OF CONTACT TELEPHONE NUMBER
954-972-0828

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform the design and permitting of water main improvements. The improvements were identified as part of a separate task order in which the water model for the City was updated. The C-14 canal crossing was proposed in order to provided redundancy to the distribution system. The improvements include a directional drill under the SFWMD C-14 canal and over 2,000 LF of water main installation to provide redundancy in the service area. Permitting coordination is required with both SFWMD and the ACOE for special approvals. Fee: \$70,752



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION (City and State) Fort Lauderdale, FL	(3) ROLE Subconsultant – Civil Engineering
b.	(1) FIRM NAME Stoner and Associates, Inc.	(2) FIRM LOCATION (City and State) Davie, FL	(3) ROLE Subconsultant - Surveying
c.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 5
21. TITLE AND LOCATION (City and State) Force Main Modeling and Design Margate, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2015	CONSTRUCTION (if Applicable) N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Margate	b. POINT OF CONTACT NAME Kelly McAtee, P.E., LEED AP	c. POINT OF CONTACT TELEPHONE NUMBER 954-972-0828
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

CMA, as a subconsultant to Carollo Engineers, was contracted by the City of Margate to perform modeling, design and permitting for force main improvements. The modeling is based on the previous models that CMA completed for the City and will evaluate two different options for connecting existing force mains. These connections will allow the City to direct the flow to their other wastewater treatment plant. In addition to the modeling, the project includes the design and permitting of over 2,600 LF of new force main and abandonment of over 1,000 LF of existing force main. The new force main design incorporates a directional drill under a City-owned canal. Fee: \$100,239



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Subconsultant – Civil Engineering
b.	(1) FIRM NAME Stoner and Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Davie, FL	(3) ROLE Subconsultant - Surveying
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 6
21. TITLE AND LOCATION (City and State) Turnpike 48" Force Main Relocation Broward County, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION (if Applicable) 2006

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Broward County	b. POINT OF CONTACT NAME Rene Castillo, Sr.	c. POINT OF CONTACT TELEPHONE NUMBER 954-426-1042
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Chen Moore and Associates was the prime consultant of a design-build team tasked to design, permit and construct the relocation of a 48" Force Main in the Turnpike Right-of-Way. This project involved the open cut installation of approximately 5,400 LF of 48" DIP followed by the removal of the existing PCCP. Coordination activities included Florida's Turnpike Enterprise of the Florida Department of Transportation, South Florida Water Management District, the Florida Department of Environmental Protection and Broward County Water and Wastewater Services. The project schedule was an aggressive 112 days from Notice to Proceed to completion.

This project involved extensive permitting and coordination with the FDOT Turnpike as the entirety of the pipeline project fell within the Turnpike's Limited Access ROW. MOT and utility plans were permitted through the Turnpike including staging areas for pipe stringing and lay-down yards. Additionally, extensive coordination with the Turnpike Construction Office was required as this project immediately preceded a Turnpike widening project and several restoration efforts were as-built and communicated. Finally, coordination with the Turnpike environmental coordinator and their subconsultant Handex was required as the dewatering permitting operations discovered contamination at the FDOT Rest Area adjacent to the project site and monitoring was required throughout the dewatering operations.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Prime – Civil Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 7		
21. TITLE AND LOCATION (City and State) 72" Force Main NW/NE 159th Street Between NW 17th Ave & NE 10th Ave. Miami, FL	22. YEAR COMPLETED <table border="1"> <tr> <td>PROFESSIONAL SERVICES 2013</td> <td>CONSTRUCTION (if Applicable) 2013</td> </tr> </table>		PROFESSIONAL SERVICES 2013	CONSTRUCTION (if Applicable) 2013
PROFESSIONAL SERVICES 2013	CONSTRUCTION (if Applicable) 2013			

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Lockwood Andrews & Newnam Inc	b. POINT OF CONTACT NAME Ricardo Vieira	c. POINT OF CONTACT TELEPHONE NUMBER 305-444-6454
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

As part of the team LAN Team, Chen Moore prepared plans for the design build package for the rehabilitation/replacement of a 72" existing force main from NW/NE 159th Street between NW 17th Avenue and NE 10th Avenue for Miami-Dade Water and Sewer Department (WASD). CMA tasks include the following: review and collection of available aerial photography, maps and LIDAR data; utility coordination; meetings with local agencies to acquire existing/available geotechnical data; preparation of existing condition corridor plans; preparation of rights-of-way designation plans; identification of municipal pavement repair requirements and proposed pavement resurfacing methods and limits; preparation of preliminary maintenance of traffic plan; preparation of and engineer's opinion of probable construction cost; and utility investigation/WASD as-built/repair and rehabilitation documentation review and recommendations.



CMA coordinated with FDOT and local municipalities to review existing utilities and future projects which may work concurrently with the force main rehabilitation project. The project team evaluated force main replacement and rehabilitation alternatives including different routes which could be used for a new 72" force main. CMA prepared plans and cross sections to represent these different replacement layouts. Furthermore, CMA prepared plans representing the different rehabilitation options investigated by the project team. With this initial analysis, CMA also prepared typical MOT cross sections and MOT plans to represent the impacts on traffic for the different options.

The project team evaluated the impacts of this force main rehabilitation on the existing nearby lift stations to verify the sanitary sewer system functionality throughout the construction and completion of the project. An alternative was selected and further detailed plans were prepared. CMA used LIDAR elevation data combined with survey information to generate an existing grade surface from which profile views were generated. CMA prepared plans and profiles for the selected force main rehabilitation method. These documents represented the existing pipeline, the portions to be rehabilitated by slip-lining, the portions to be rehabilitated with a cured in place pipe (CIPP), and the existing utilities which crossed the force main. Fee: \$48,247

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Subconsultant – Civil Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 8
21. TITLE AND LOCATION <i>(City and State)</i> Broadview Park NIP 20" Water Main Extension Broward County, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION (if Applicable) 2011

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Broward County	b. POINT OF CONTACT NAME Patrick MacGregor	c. POINT OF CONTACT TELEPHONE NUMBER 954-831-0904
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Chen Moore and Associates was responsible for the design and construction administration of the 20" Water Main Extension on SR-7 (US 441). This project is approximately 9,000 LF in length and links two previous Chen Moore and Associates projects to provide a water source for the Broadview Park Neighborhood from Broward County WTP 1A. This project involved extensive permitting and coordination with FDOT District IV as the majority of the water main falls within FDOT ROW. The permit requirement also included complex Maintenance of Traffic design. The night operations included water main installation and testing the horizontal directional drill at Broward Boulevard, while restoration and materials testing in association with FDOT inspectors occurred during the day. The project was completed on time and under budget. Fee: \$586,828; Cost: \$2 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Prime – Civil Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 9
21. TITLE AND LOCATION (City and State) BC UAZ Utilities Projects Broward County, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006	CONSTRUCTION (if Applicable) 2011

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Broward County	b. POINT OF CONTACT NAME Patrick MacGregor	c. POINT OF CONTACT TELEPHONE NUMBER 954-831-0904
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

UAZ 307 / 315 - The Broward County UAZ 307 / 315 Utilities project included replacing existing water main and providing sanitary sewer for County Service Areas in the City of Dania Beach, near Griffin Road and Ravenswood Road. The main technical components included replacing a 12-inch water main on Ravenswood Road, replacing the residential water distribution system, providing sanitary sewer to connect existing septic tanks and rehabilitating and installation of new lift stations and force main. In order to achieve the necessary information, site visits concentrated on contacting residents to determine the location of existing tanks. A great deal of coordination was required to accommodate developer projects, tie into County projects, and obtain easements for crossing private properties. A total of 20,000 linear feet of water main replacement, three lift stations and 14,000 linear feet of sanitary sewer, which will tie in over 400 parcels, were designed for this project.



UAZ 303, 314 and 318 - The Broward County UAZ 303,314 and 318 project was part 1 of what was projected to be an \$8.8 million project replacing existing water and providing sanitary sewer for County Service Areas in the City of Dania Beach, just east of State Road 7, north and south of Griffin Road. The main technical components included replacing water mains on County roads, replacing the residential water distribution system, providing sanitary sewer systems to eliminate existing septic tanks, and rehabilitating or installing new lift stations. GIS was used to keep track of all ongoing projects, log pertinent site information, determine the projected flow rates, track questions from residents of the area and track responses from utility companies regarding their existing facilities. The design of these improvements began in January 2009 and UAZ 303 has been completed.

UAZ 316 - The Broward County UAZ 316 project is part 2 of the estimated \$8.8 million project servicing Broward County utility zones in the City of Dania Beach which includes replacing existing water and providing sanitary sewer just east of State Road 7, and south of Griffin Road. The main technical components include replacing water mains, replacing the residential water distribution system, providing sanitary sewer systems to eliminate existing septic tanks and rehabilitating or installing new lift stations.
 Fee: \$2,931,151; Cost: \$11,319

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Prime – Civil Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)</i>		20. EXAMPLE PROJECT KEY NUMBER 10
21. TITLE AND LOCATION (City and State) Improvements to Force Main Crossing Intercoastal Waterway at Hillsboro Blvd Deerfield Beach, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION (if Applicable) 2014

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Deerfield Beach	b. POINT OF CONTACT NAME Keven Klopp	c. POINT OF CONTACT TELEPHONE NUMBER 954-457-1376
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Chen Moore and Associates designed the Subaqueous Forcemain Crossing for the City of Deerfield Beach. The forcemain was over 500 LF long and approximately 60 feet deep with 14 inch diameter HDPE. It crosses the intercoastal waterway at Hillsboro Boulevard to replace an existing force main. The project included the design of a directional drill under the intercoastal. Extensive permitting with FDEP, USACE and FDOT, as well as bidding assistance and construction administration services were also performed. Fee: \$ 80,834; Cost: \$426,050



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Chen Moore and Associates	(2) FIRM LOCATION <i>(City and State)</i> Fort Lauderdale, FL	(3) ROLE Prime – Civil Engineering
b.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE

[illegible]

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Margate Aerial Crossing	6	Turnpike 48" Force Main Relocation
2	Aerial Crossing Rehabilitations	7	72" Force Main NW/NE 159th Street Between NW 17th Ave & NE 10th Ave
3	Panama City Water & Sewer Improvements Joint Venture	8	Broadview Park NIP 20" Water Main Extension
4	C14 WM Canal Crossing	9	BC UAZ Utilities Projects
5	Force Main Modeling and Design	10	Improvements to Force Main Crossing Intercoastal Waterway at Hillsboro Blvd

H. ADDITIONAL INFORMATION

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Chen Moore and Associates (CMA) is a multi-discipline consulting firm with offices in Palm Beach, Miami-Dade, Broward, Martin, Orange and Alachua Counties. Founded in 1986, Chen Moore and Associates specializes in civil and environmental engineering, landscape architecture, planning, GIS analysis and mapping, and construction engineering inspection. We are a Florida state and locally certified small business enterprise firm. Dr. Chen founded CMA believing that relationships are critical to planning, designing and constructing successful projects. The firm commits to providing responsive quality services while meeting the schedules and specific project needs of our clients.

CMA actively supports various community organizations including Habitat for Humanity, Toys for Tots, the Cooperative Feeding Program, and Ocean Watch, a non-profit group focused on cleaning and preserving South Florida's Beaches. Firm staff participates in local professional society events including the American Society of Civil Engineers, Florida Engineering Society, American Society of Landscape Architects, Irrigation Association, Florida Recreation and Park Association, International Society of Arboriculture and the United States Green Building Council. We proudly support our industry and the communities in which we live, play and work.

Our services include the following:

- Infrastructure Master Planning
- Pump Station Design and Rehabilitation
- Water Supply, Treatment and Distribution Design
- Stormwater Management System Design and Master Plans
- Environmental Engineering
- Roadway Design and Streetscape
- Traffic Calming Design
- Circulation & Roundabout Design
- Government Permitting
- Land Development
- Site Development
- Site Planning
- Landscape Architecture
- Hardscape Design
- Irrigation Design
- Park Design
- Greenway & Trails Design
- Pedestrian & Bicycle Pathway Design
- Habitat Restoration
- Wayfinding
- GIS Analysis and Mapping
- Project and Program Management
- Sustainable Design and LEED Solutions
- Value Engineering
- Utility Rate and Infrastructure Valuation Studies
- Resident Coordination and Stakeholder Meetings



I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE

A handwritten signature in blue ink, likely belonging to Peter Moore.

32. DATE

8/26/15

33. NAME AND TITLE

Peter Moore, P.E., F.ASCE, LEED AP, President

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (IF ANY)

2015-016


PART II –GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Chen Moore and Associates			3. YEAR ESTABLISHED 2011	4. DUNS NUMBER 859459547
2b. STREET 500 W. Cypress Creek Rd., Suite 630			5. OWNERSHIP	
2c. CITY Fort Lauderdale			2d. STATE FL	2e. ZIP CODE 33309
6a. POINT OF CONTACT NAME AND TITLE Peter Moore, PE, LEED AP, F.ASCE, President and CEO			a. TYPE Corporation	
6b. TELEPHONE NUMBER (954) 730-0707, ext 1002			6c. E-MAIL ADDRESS pmoore@chenmoore.com	
8a. FORMER FIRM NAME(S) (if any) Chen and Associate Consulting Engineers, Inc.			8b. YEAR ESTABLISHED 1986	8c. DUNS NUMBER 859459547

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index No. (see below)
		(1) Firm	(2) Branch			
02	Administrative	7	5	C10	Commercial Building; (low rise); Shopping Centers	1
08	CADD Technician	17	3	C15	Construction Management	1
12	Civil Engineer	13	11	C18	Cost Estimating; Cost Engineering and Analysis; Parametric Costing; Forecasting	2
15	Construction Inspector	5	1	E02	Education Facilities; Classrooms	2
16	Construction Manager	2	1	E09	Environmental Impact Studies, Assessments or Statements	1
39	Landscape Architect	3	0	G04	GIS development, analysis, data	2
				H07	Highways; Streets; Airfield; Parking	2
				L03	Landscape Architecture	1
				P05	Planning (Community, Regional)	2
				P06	Planning (Site, Installation)	2
				P13	Public Safety Facilities	2
				R04	Recreation Facilities (Parks, etc.)	2
				R06	Rehab. (Buildings, Structures)	3
				R11	Rivers Canals; Waterways; Flood Control	1
				S04	Sewage Collection & Treatment	4
				S11	Sustainable Design	1
				S13	Stormwater Handling & Facilities	4
				T02	Testing & Inspection Services	4
				T03	Traffic & Transportation	2
				V01	Value Analysis; Life-Cycle Costing	1
				W03	Water Supply, Treatment, Distrib.	4
Total		47	21			

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)		PROFESSIONAL SERVICES REVENUE INDEX NUMBER	
a. Federal Work	1	1. Less than \$100,000	6. \$2 million to less than \$5 million
b. Non-Federal Work	6	2. \$100,000 to less than \$250,000	7. \$5 million to less than \$10 million
c. Total Work	6	3. \$250,000 to less than \$500,000	8. \$10 million to less than \$25 million
		4. \$500,000 to less than \$1 million	9. \$25 million to less than \$50 million
		5. \$1 million to less than \$2 million	10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.	
a. SIGNATURE 	b. DATE August 27, 2015
c. NAME AND TITLE Peter Moore, PE, LEED AP, F.ASCE, President and CEO	

AUTHORIZED FOR LOCAL REPRODUCTION
MANDATORY USE DATE OF FORM 6/2004

Overall Design Aspects

The Southern Underground/CMA team's review of the project components, as well as the understanding of the City's utility system will provide the City with the highest quality product. The following section outlines the team's understanding of the site conditions and project requirements, approach to perform the work and design alternatives for the City's consideration.

Site Characteristics

The water and sewer main aerial pipes in this project cross over a canal that runs north and south between the Coral Bay neighborhood and Medical Center Facilities. CMA reviewed existing publicly available data to identify potential site constraints. This investigation yielded that the project area does not encroach in any wellfield protection areas, natural lands protected by Broward County or contaminated sites.



Medical Center facilities are adjacent to the project site.

Soil Conditions

The City had geotechnical explorations conducted by NV5 in December 2014 as part of the feasibility study performed by Hazen and Sawyer. The following information was noted in the report and has been considered for the design and construction of the aerial crossing replacements:

- The soils consist mainly of a 4-foot layer of sand, a layer of limestone and a layer of sand with limestone fragments, which is very dense below the depth of 25 feet. These soil characteristics will not pose any issues for construction excavations.
- The groundwater was encountered at depths of 4-feet to 6-feet. Dewatering operations will likely be required for the underground portion of the utility construction.

Canal Characteristics

According to preliminary discussions with Broward County, the canal (both north and south of the crossing) is owned by the Coral Bay neighborhood. It is noted that the RFQ document states that the northern section of the canal is owned by Broward County, so this will need to be investigated further after contract award. According to as-built drawings, the canal is 7 feet deep (from the top of bank to the bottom). This would need to be confirmed by survey if any improvements within the canal are to take place.

Existing Utilities

A Sunshine One Call Design Ticket was performed to identify utilities other than the City's that are within the project area. Comcast, Coral Cay Water & Sewer, City of Margate, Florida Power & Light, Teco Peoples Gas, and AT&T. As-builts will need be secured from TECO to ensure that the existing gas does not conflict with the proposed design. FPL,

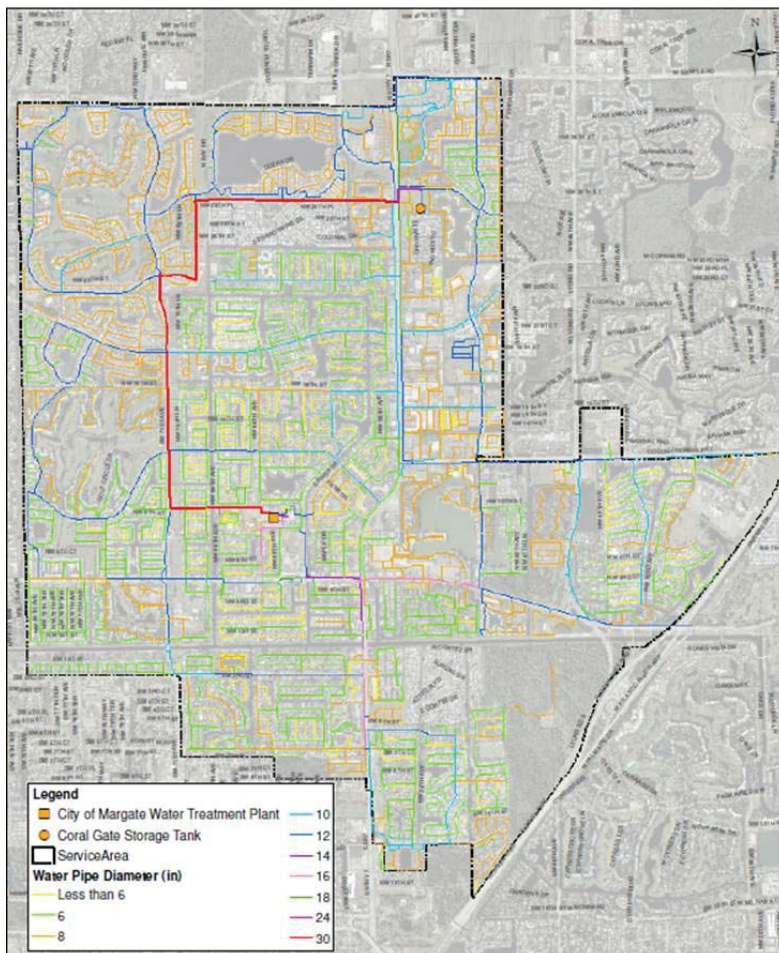
Comcast and AT&T facilities likely consist of the overhead wires and utility poles. From preliminary coordination with FPL, this feed services 81 residents on Sable Circle (North, South, East and West), Lift Stations 38 and 55, as well as the emergency feed for Medical Center Facilities. It is not likely that FPL will be able to de-energize these lines during construction. The more feasible option will be for FPL to temporarily relocate the pole line. Further coordination with Coral Cay Water & Sewer would need to be performed during design to verify any facilities within the project area.



Overhead utilities will need to be protected during construction.

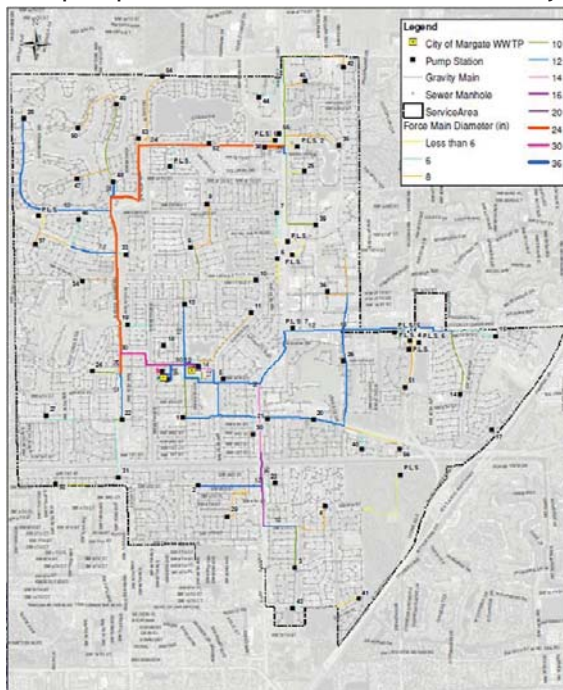
The existing 30-inch water main transmission pipeline travels 3.6 miles from the Water Treatment Plant (WTP) to the existing aboveground Coral Gate Ground Storage Tank which is located on the north east part of the City. This main water pipeline travels north on Rock Island Road and east adjacent to South Bay Drive until crossing State Road 7. The water main segment aerially crossing at the project location has two butterfly valves identified as 8-WV-244 and 8-WV-243 and located immediately east and west of the aerial crossing. Per the RFQ, these valves will be replaced during this project. Moreover, there is an additional butterfly valve (8-WV-242) on the 30-inch water main located 0.8 miles west of the aerial crossing as identified in the Geographic Information System (GIS) database. Additional valves on the 30-inch water main and west of the aerial crossing are not identified in the GIS database. As shown in the GIS database, there are five connections to the east and two connections to the west of the project location.

The average and peak hour flow in the 30-inch water main is approximately 1,600 gpm and 2,200 gpm, respectively. Based on the City's current water model, the water system has enough redundancy to maintain adequate pressures and flows in the system when the aerial crossing is being isolated.



City of Margate existing water system

The pump stations in the north area of the City are connected to the 24-inch pressurized sewer line that travels west adjacent to South Bay Drive and south on Rock Island Road and finally connecting to a 30-inch line which connects to the Wastewater Treatment Plant facility. The 24-inch pressurized sewer line has a total length of approximately 3.1 miles and it is one of the main backbone lines in the system to connect the northern area of the City to the Wastewater Treatment Plant. Based on the City's current sewer model, the flow in the 24-inch force main line at the aerial crossing Site No. 14 ranges between 1,700 and 2,300 gpm. The 24-inch force main line is the only pipeline connecting the north area of the City to the Wastewater Treatment Plant. Isolating the 24-inch force main pipe at the aerial crossing affects a total of eight City and two private pump stations connected to the east of the crossing. The affected pump stations include Pump Station 38 which serves the Medical Center Facilities.

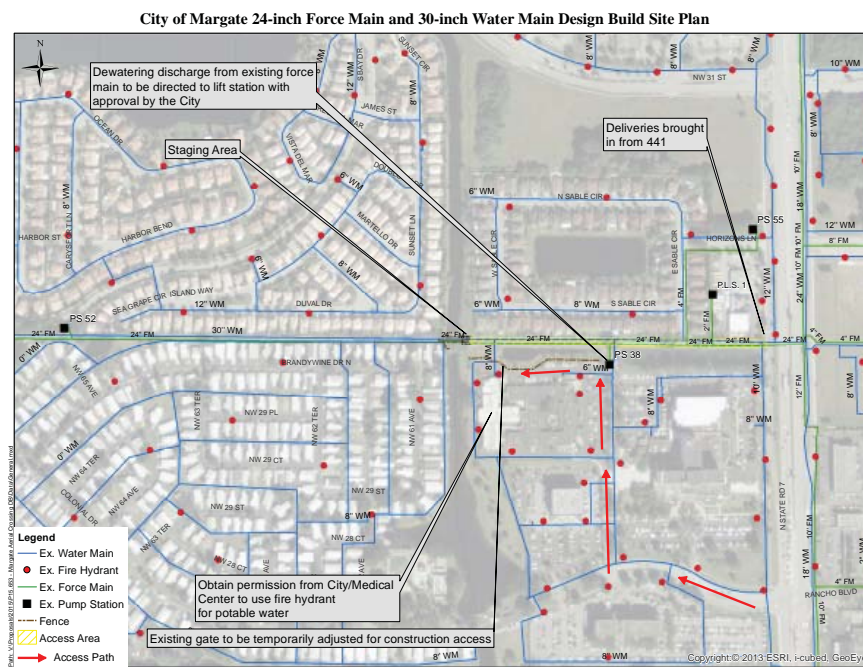


City of Margate existing sewer system

Site Access and Staging

Access to the site will need to be thoroughly reviewed with the City and all stakeholders from the beginning of the project. Based on several site visits, the preferred access point to the site is via the gate located on the North Side of the Medical Facility property on the Southeast side of the aerial crossings

as shown in the figure below. This 10 foot gate will need to be enlarged to allow access of the large equipment necessary to perform the work. Alternatively, the site access will be from the side street parallel to State Road 7 through the existing 28' utility easement. This secondary access point will require removal of existing fencing and some trees. Both proposed access points will have minimum impact to traffic and pedestrian and FDOT Standard Index 600 series will be utilized where needed. The storage area will be immediately adjacent to the site on the east side of the aerials and canal.



Coordination with the neighboring communities will need to occur so they are aware of the construction schedule, activities and vehicle movements. This coordination will be especially important during night work and utility shut downs. Access to the west side of the aerial will require passage of equipment and personnel between mobile homes. As such, every effort will be made to move equipment and materials through the existing land bridge on which the aerials are located to minimize the need to impact these residents.

Temporary utilities will be provided and will be in accordance with Section 8.2 of the specifications provided in this RFQ. To obtain potable water for testing, SUI will request a meter and backflow preventer from the City for connection to a fire hydrant. Potable water for testing is proposed to be obtained from the closest fire hydrant, located at the Medical Center Facilities, pending approval.

Jurisdictional Agencies

The work performed in this project will require permits from various agencies having jurisdiction. The following are the permits that the team expects to obtain:

- City of Margate Engineering and/or Building Department Permit
- Broward County Environmental Protection and Growth Management Department (BCEPGMD) – wastewater permit
 - Although BCEPGMD does not normally require a permit for pipelines that are the same size and installed in the same location, it has been confirmed that the large pipe diameter, restraining methods and construction methodology will need to be reviewed and will therefore trigger a permit.
- BCEPGMD – Environmental Resource License (dependent upon further investigation into the canal ownership)
- Broward County Health Department – 62-555.900(7) - Notice of Intent to Use the General Permit for Construction of Water Main Extensions for PWSs.
- South Florida Water Management District and BCEPGMD – “No-Notice” Dewatering Permit (assuming project less than 90 days with maximum daily pumpage of less than 5 million gallons per day and maximum total project pumpage of less than 100 million gallons, where all dewatering water is retained on the project site and there is no potential for resource harm; depending on means and methods)

Work Hours and Coordination with the City

The general work hours for the project will be from dawn to dusk Monday through Saturday. Any force main and water main shutdowns will be between the hours of midnight and 6:00 AM. SUI will issue a request for additional work hours to accommodate these utility shutdowns. SUI understands that seven day notice to the City, in writing, is required for the utility shutdowns/taps. Section 33-79 of the City of Margate Code of Ordinances addresses regulations for construction noise within the City limits. The required timing of the shutdowns will require the team to apply for a 30 day exception to this ordinance through the Office of the City Manager. Section 33-82 specifies the maximum noise level within a residential neighborhood as 55 dBA; the construction equipment required for the base bid for this project will perform under this level.

City inspections can be scheduled Monday through Thursday; inspections outside of this timeframe will need to be scheduled with the City in advance. SUI will request inspections outside of normal working hours during the utility shutdowns.

The SUI/CMA team understands the importance of constant communication with the City regarding the shutdowns of these mains, so the City can provide the regulation of the lift stations within the 6-hour allowable closure time.

Emergency Response

At the pre-construction conference, the CMA/SUI team will designate an individual that will be the point of contact for emergencies. The City will be requested to also provide a point of contact that can be reached at all hours.

Since the bypass systems will utilize line stops with bypass outlets and bypass piping, the transfer of flow to the bypass line and later back to the new mains will be instantaneous and would not require a shutdown. Vector trucks will be on standby during any critical operations including the removal of the existing sewer aials which will require that the existing sewage between linestops be vacuumed and transported to the sewage system for proper disposal. In the event of a spill, the City will be notified immediately. Protecting the health and safety of the staff of the City, SUI and CMA, as well as the surrounding communities will be the highest priority. The canal will be reviewed for its flow characteristics, and any spills will be contained. Water quality will be monitored as required by regulatory agencies. The SUI/CMA team can assist with any public notifications if necessary.

Pipeline Supports

The existing 24-inch force main and 30-inch water main are currently being supported by a pile cap, which is in turn being supported by piles driven to a minimum depth of 35 feet. The piles are designed for a minimum resisting load of 35 tons. These piles will be tested after the existing pipes are removed to determine the current capacity. The total pile static load has been calculated to be 35 tons. The design and construction costs assume that the existing piles will be utilized and visual inspection of piles will be performed to determine if further pile testing is necessary.



Existing pipelines are supported by concrete cradles that rest on a pile cap.

Proposed Design

The project design will consist of the replacement of the 30-inch water main and 24-inch force main canal crossing with new ductile iron and flanged pipe of the same diameter as the existing pipe. Figure CAC-1 shows a conceptual design. The design and construction will incorporate the following components:

- The existing chain link fence and gates shall be removed during construction and restored after pipe installation.
- The existing vegetation over pipeline crossings will be cleared prior to pipe removal.
- The proximity of overhead wires has been noted, as described in the existing utilities section. The equipment used in the pipeline installation will not interfere with the overhead utilities.
- The need to dewater will depend upon the depth of the utility lines at the tie in locations. With the water table at a depth of 4 to 6 feet, it is anticipated that dewatering will need to occur. The withdrawal will be performed with



Existing chain link fence and gate

a 3", 10 HP, 400 GPM centrifugal pump . The dewatering effluent will be discharged into a sediment basin before ultimately discharging into the canal.

Stormwater Pollution Prevention measures will be taken to ensure that the canal does not receive any sediment discharge from the construction. Floating turbidity barriers will be installed on each side of the culvert.

Line stops with 16-inch and 24-inch outlets for the force main and water main, respectively, will be installed at each side of the aerial crossing, on each pipeline. The bypass will need to be designed so that the head losses are maintained at an allowable level. Considering that this is a relatively short term bypass and head loss values above the typical design levels would not be detrimental to the overall system, the acceptable head loss for this scenario was determined to be 5 ft/100 ft. Table 1 provides the results of utilizing the City force main and water models to determine the effects of various diameter bypass lines.

Water				Force Main				
Diameter (in)	Pressure W of Cross (psi)	Pressure E of Cross (psi)	HL/1000 (ft/1Kft)	Diameter (in)	Pressure W of Cross (psi)	Pressure E of Cross (psi)	HL/1000 (ft/1Kft)	Flow (gpm)
30	61.99	61.86	0.05	24	27.88	28.11	0.25	1692.58
8	62.14	61.36	13.36	8	27.32	29.67	41.42	1495.99
10	62.07	61.59	7.46	10	27.66	28.71	16.15	1618.04
12	62.03	61.72	4.01	12	27.79	28.36	4.71	1661.24
16	62.00	63.44	1.22	16	27.86	28.17	1.77	1685.53
24	63.49	63.46	0.18					

The recommended bypass size will be 16 inch for both the force main and 24 inch for the water main to match the existing size as closely as possible. The bypass will be constructed of HDPE.

- Pile visual inspection will be conducted to determine the condition of the existing piles after the removal of the pipelines. The piles will need to support a minimum load of 35 tons, which represents the weight of the 30-inch pipe full of water. It is assumed that the existing piles and pile caps can be used to support the new pipes should a pile load test be required, an additive alternate has been provided.
- As the existing thrust blocks will need to be removed from the buried fittings, external restraints will be added to the existing pipelines to remain to ensure proper restraining during the linestop and permanent installation.
- The existing force main will be dewatered prior to removal. The effluent from the force main will be discharged at a location agreed upon with the City. Is noted that Lift Station 38 could potentially accept the effluent from the force main to be removed.
- ¼" thick 50 durometer neoprene pads will be installed between the supports and pipes.
- Stainless steel bolts and straps will be used to anchor the pipes to the supports.
- Proposed water and force main pipe will be ductile iron and in accordance with Section 9 of the specifications included in the RFQ. Underground pipes shall maintain the same horizontal and vertical clearance as existing.
- Two 30" butterfly valves will be installed on the underground portion of the proposed 30" water main on each side of the aerial crossing.



Existing sanitary lift station

- Two 24" side actuated plug valves will be installed on the underground portion of the proposed 24" force main on each side of the aerial crossing.
- Air release valves will be installed on both the water and force mains. These will be installed at the highest point, which will be the above ground portion. For the force main, the ARV will be installed on the east side of the crossing, on the above ground portion before going over the canal.
- A gap between the proposed pipes and the existing pipe (at the linestop location) will be left in place until the proposed pipeline has been pressure tested. The gap for the water main will also be left in place until CMA and the Broward County Health Department clear the main for use. The SUI/CMA team understands that the City inspector needs to be present at all pressure tests. All proposed pipe will be restrained so temporary restraints for pressure testing will not be needed.
- Piping, valves, fittings, straps, bolts and other ferrous appurtenances will be coated in accordance with Section 15.0 of the specifications included in the RFQ.

Design Alternatives

It is important to the SUI/CMA team to provide the best value product to the City. For this reason, design alternatives were investigated to determine the feasibility and cost effectiveness. The following section elaborates on the design alternatives that were considered:

Welded Steel Aerial Crossing

The use of welded steel pipe instead of flanged ductile iron pipe was considered for the both the water and force main aerial crossing. The advantage to using welded steel pipe is that the aerial portion can be assembled on the ground, pressure tested and cleared prior to cutting into the existing pipelines. Therefore, the bypass would only be needed for the time required to remove the existing pipe and install the new pipe. A crane would be required to move the assembled welded sections to the pipe supports. For this reason, the welded steel approach is not recommended, as the crane operation would conflict with the overhead electrical wires.

Direct Bury over Culvert

Keeping the pipelines underground would be desirable for a variety of reasons including aesthetics, security and no maintenance for structural supports. This option is not recommended since adequate ground cover and vertical separation to the culvert cannot be achieved.

Directional Drill under Canal

Installing the pipelines via directional drill under the culvert would be desirable because it would keep the pipeline underground and allow the aerial piping and fencing to be removed permanently. As discussed in the previous option, this would provide improved aesthetics, security and no maintenance for structural supports over the existing aerial crossing. Another advantage to this installation is that the existing line can remain in service while the proposed installation is taking place, with service interruption only during the tie ins, which would reduce the total construction time for the project and eliminates any risk associated with line stops and above ground bypass piping .



A conceptual design for this alternative is provided in Figure CDD-1. This design calls for the directional drill to be constructed within the 28' utility easement. Based on the allowable bending radius of the 30" HDPE pipe, the directional drill will have a minimum length of 630 feet. The depth of the drill has been designed at 45 feet, which will allow the pipe to pass under the piles. Due to restricted access on the West side of the aerals near the trailer park community, our plan would be to bore the hole from East to West, fuse and stage the pipe on the East side, then move the drill rig to the West side only to perform the pullback operation.

Air release valves will be installed on each side of the crossing on both utilities. On each side of the crossing,

butterfly valves will be installed on the water main and side actuated plug valves will be installed on the force main. This alternative is recommended by the SUI/CMA team for the ease in construction, safety, security and aesthetics of the installed pipelines.

Construction Administration

The Engineering Construction and Inspection Department at Chen Moore and Associates consists of highly experienced professionals backed by years of experience and the latest technology and is prepared to accommodate all special conditions of the project. This department will assist the engineers and SUI in the following tasks for this scope of work:

- Attendance at pre-construction and bi-weekly progress meetings
- Constructability Review and Quantity Measurement
- Shop Drawing Review
- Field Inspection and Reporting
- NPDES Compliance
- Field Engineering and Problem Solving
- Public Information and Liaison with Community
- Density Testing
- Project certification and closeout

Preparation of supplementary sketches required to solve problems during construction

Being a small firm, we believe that it is our duty to the client to respond as quickly as possible when a problem arises. Sketches to solve construction issues can be produced within minutes and the construction inspectors on our staff are always available to aid in the process.

Checking detailed construction and shop drawings submitted by the contractor for compliance with the design concept

The CMA Team has extensive experience reviewing plans for internal projects and for outside clients. Chen Moore and Associates understands the need for internal review of design drawings. Plan review is done by Professional Engineers as well as Field Inspectors, who give feedback on the constructability of projects. CMA also realizes that it is sometimes necessary to review and verify work performed by prior consultants. Shop drawings will be reviewed in a timely manner. The CMA Team has established contacts with several different material supply companies. This has proven useful in getting shop drawings made and approved.

Making periodic visits to the project site at intervals appropriate to the various stages of construction to observe progress and the quality of the executed work

Depending upon the specific needs of each project, the CMA Team will make construction inspectors available full-time or available at critical junctures in the project process for certification and testing.

It is essential during construction to have ongoing communication between the client, contractor, consultant and community. CMA has established a solid reputation as a construction administration firm. One important aspect of clarification is between the community and the client. This cannot be overlooked. The construction phase is when most residents notice changes occurring, along with disruptions. It is during this time that most residents start paying more attention to the actual changes taking place. It is extremely important to keep an ongoing dialogue with the residents to explain why certain aspects were designed as they were and what the overall benefits will eventually be.

The SUI/CMA Team realizes that even with the best planning, pre-investigation, design and communication, changes can occur during construction. The most effective way of dealing with change orders is to try to anticipate them, provide alternative solutions quickly, which are acceptable to both Client and Contractor, and negotiate with both entities to minimize additional costs. Often times, changes can be made on site without the need for the change order process. CMA has built a reputation of administering projects in a way which minimizes change orders and the costs associated with them.

Issuing necessary interpretations and clarifications of contract documents, and making decisions as to the acceptability of the work

At Chen Moore and Associates, the engineers work very closely with the in-house inspectors, allowing a different point of view to be seen when interpreting construction documents. Considerable experience has been gained due to the fact that all engineers involved in infrastructure design have had field experience, in-house, performing construction management services. The lessons learned in the field are incorporated into design and the engineers have the knowledge to make educated decisions about the acceptability of the work.

Observing initial operation of the project, or performance tests required by specifications

The engineering team at CMA feel that it is their duty to be present for all important procedures that have an effect on the project. Since the outcome of these procedures will be incorporated into the design, the engineers are obligated to observe and approve the procedures.

Making a final inspection and reporting on completion of the project

During the final walk-through of the construction, the inspectors will be required to maintain extensive documentation that can clearly be understood by the engineers.

Preparing needed documents including record drawings and certifications for submittal to regulatory agencies

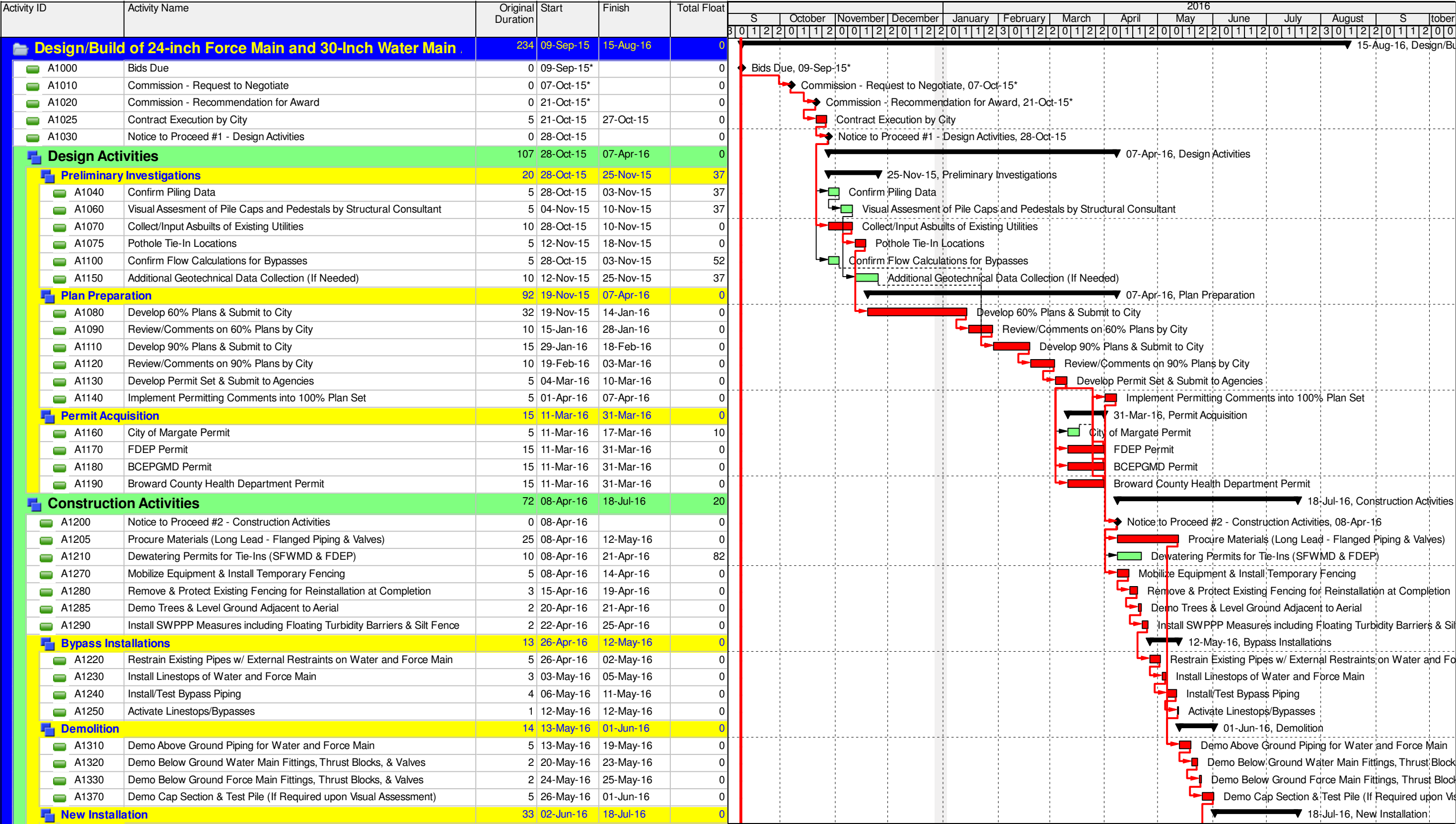
Chen Moore and Associates is very familiar with dealing with regulatory agencies, so they will be able to predict and deliver what the agency needs. The CMA Team is also experienced in dealing with unexpected events and situations, and can respond promptly with the required information.

Preparing project closeout documents required by the City

The SUI/CMA team will prepare the required project closeout documents for the City including test results, release of liens and consent of surety.

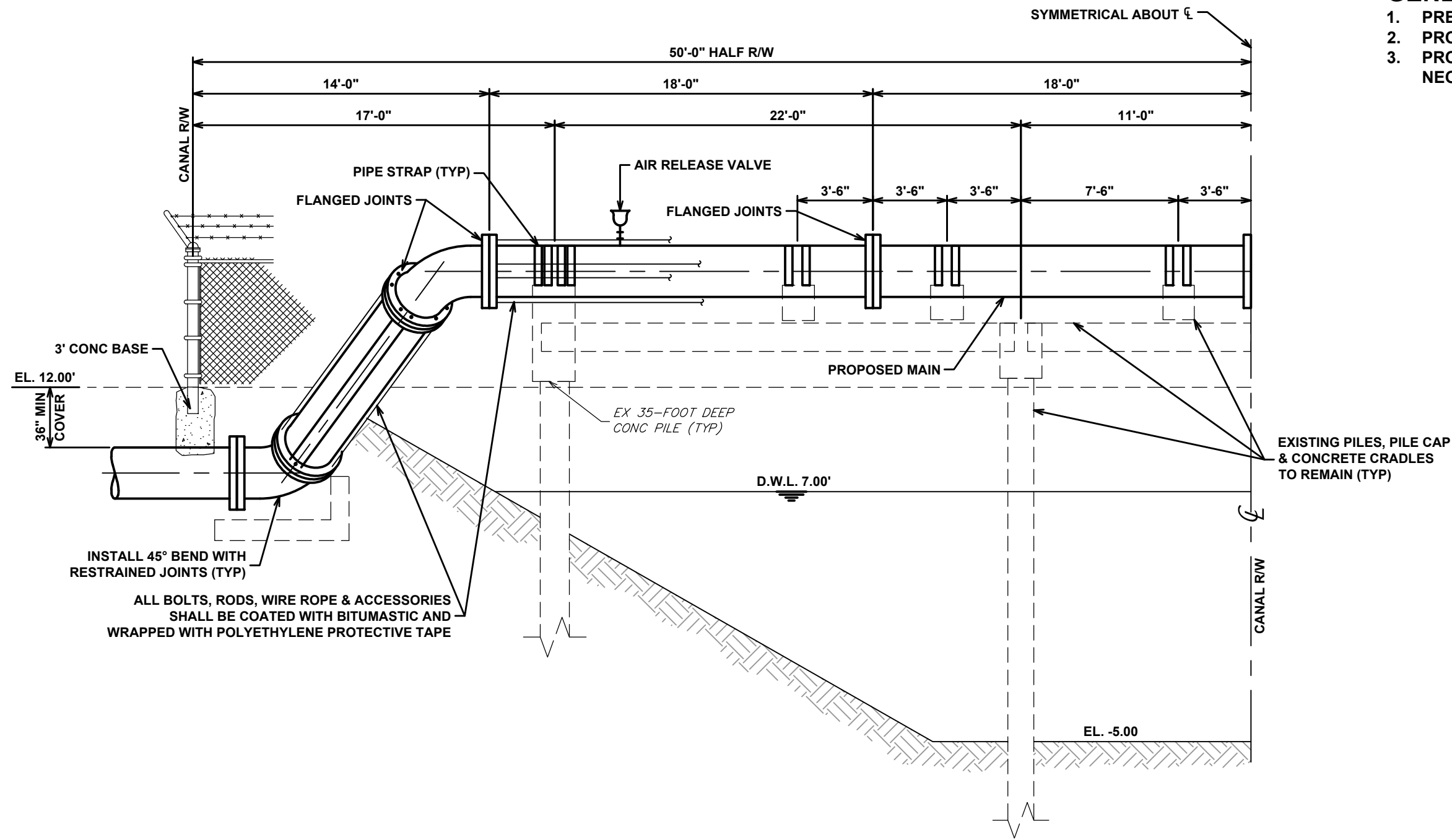
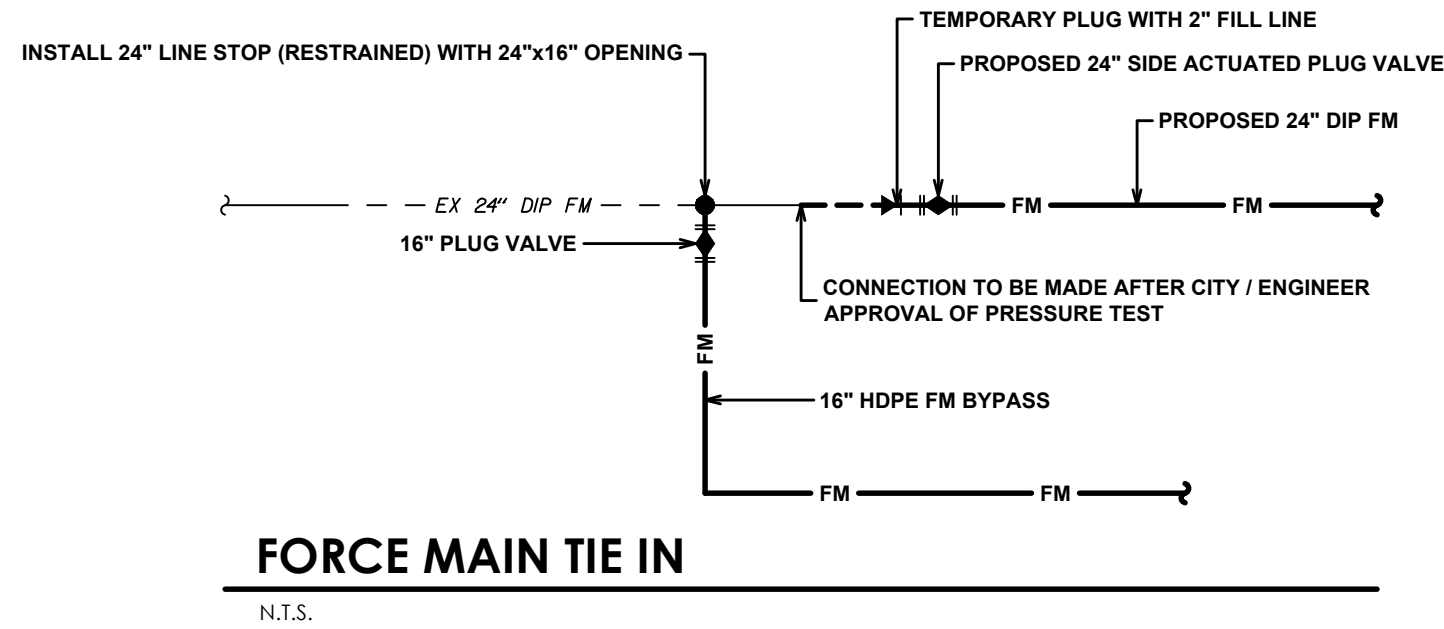
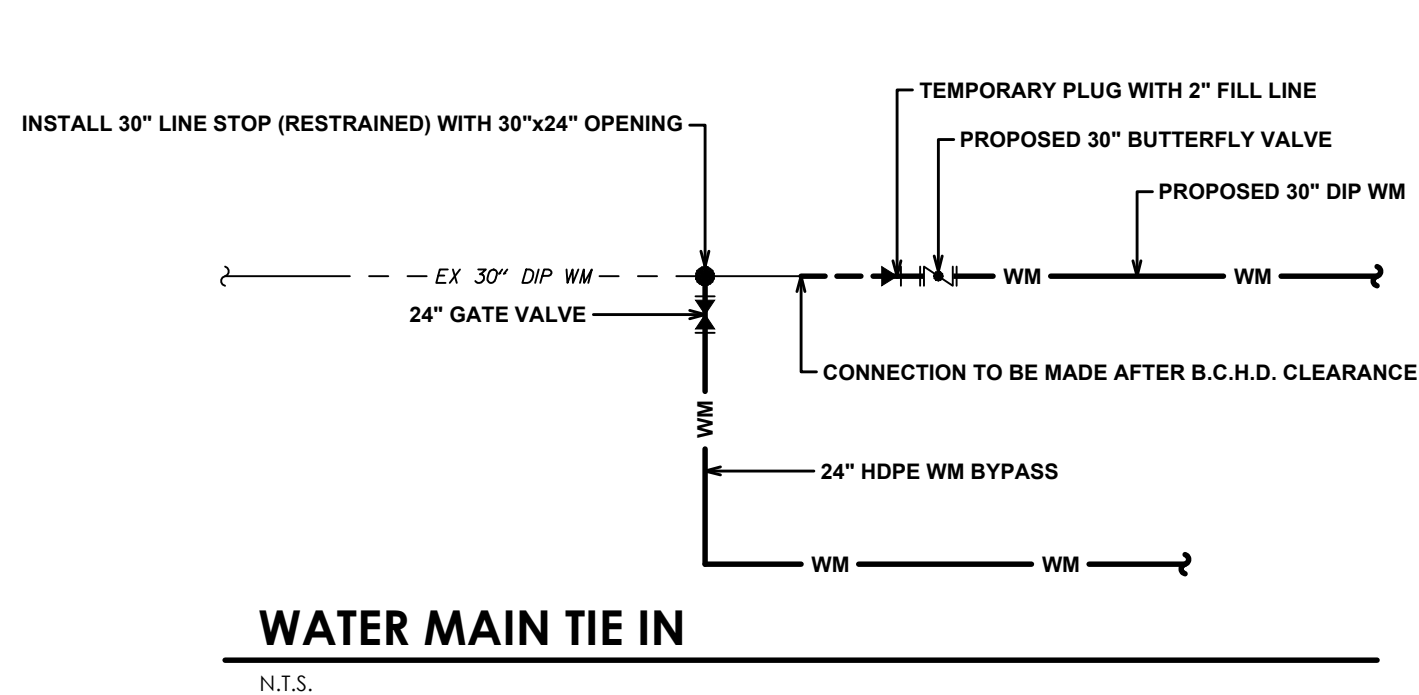
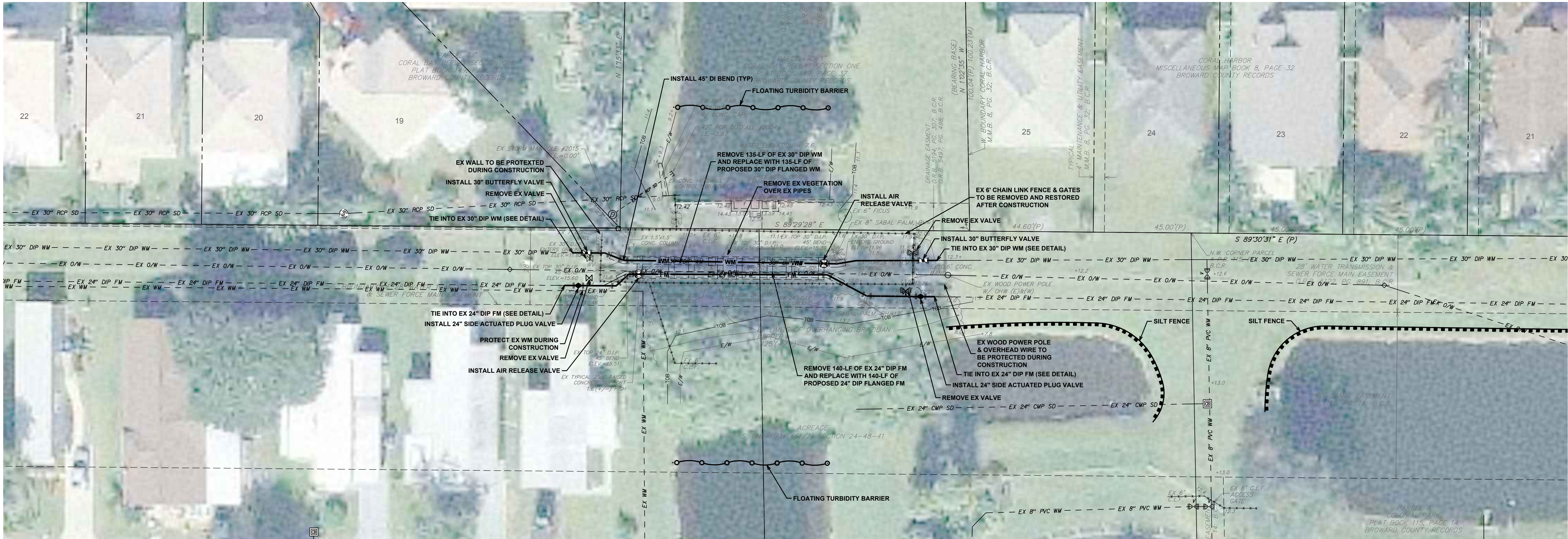
Project Schedule

The schedule has been proposed to be completed within 199 working days from the notice to proceed. The schedule reflects project revisions from agencies and the City of Margate which can be adjusted as necessary.



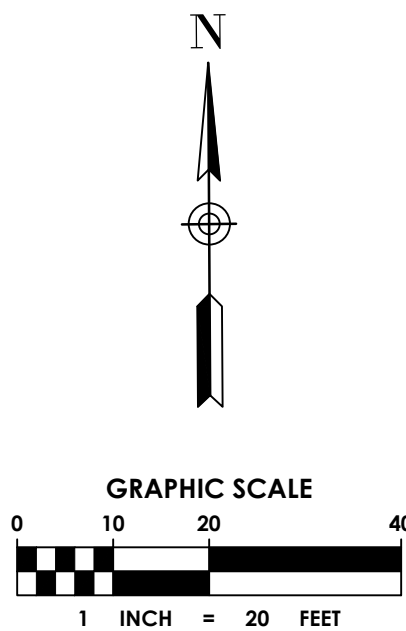
- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- Milestone
- summary





GENERAL NOTES:

1. PREVENT DEBRIS FROM ENTERING CANAL USING BMP's.
2. PROTECT EXISTING PILES, PILE CAPS, CULVERT AND OTHER STRUCTURES.
3. PROPOSED PIPELINES TO BE INSTALLED IN SAME LOCATION AS EXISTING. NEOPRENE PADS TO BE INSTALLED ON PIPE SUPPORTS.



PRELIMINARY

CHEN-MOORE & ASSOCIATES
500 Australian Avenue South
Suite 530
West Palm Beach, FL 33401
561.746.6900
www.chenmoore.com
CERTIFICATES OF AUTHORIZATION
EB4593 LC26000425

REGISTRATION
SUZANNE DOMBROWSKI, P.E.
REGISTRATION NO. 69918
DATE:

DESIGN-BUILDER

SOUTHERN UNDERGROUND INDUSTRIES
3453 NW 44 STREET, SUITE 205
OAKLAND PARK, FL 33309
954.650.4699
WWW.SOUTHERNUI.COM

CITY OF MARGATE
Together We Make It Great

PROJECT INFORMATION

24-INCH FORCE MAIN AND 30-INCH WATER MAIN CANAL CROSSING

CITY OF MARGATE, FLORIDA
PROJECT NUMBER
P15.653

CLIENT PROJECT NUMBER

VERIFY SCALES
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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

REVISIONS

DATE OF ISSUE
9/1/15

DESIGNED BY
SD

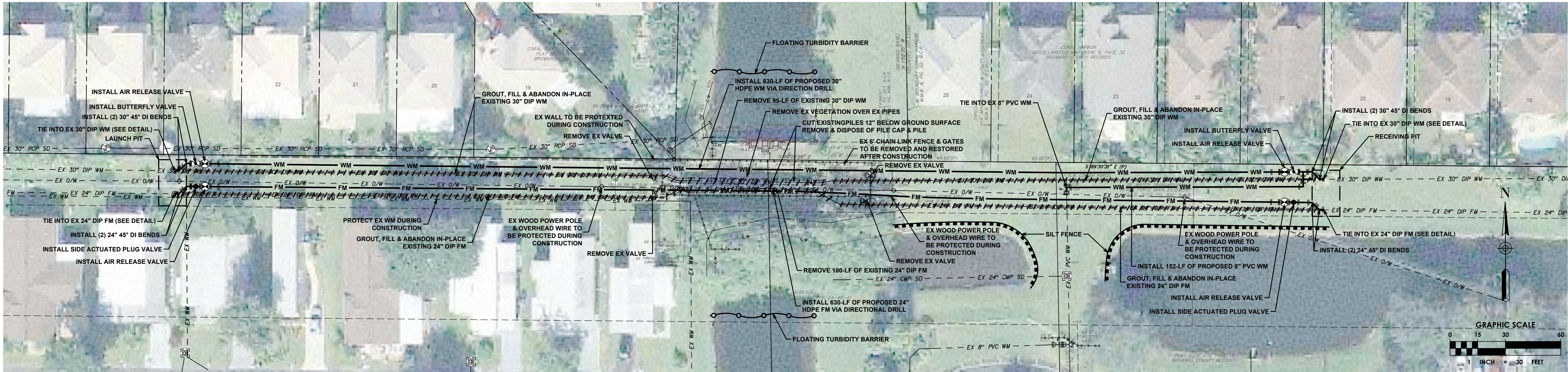
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SD

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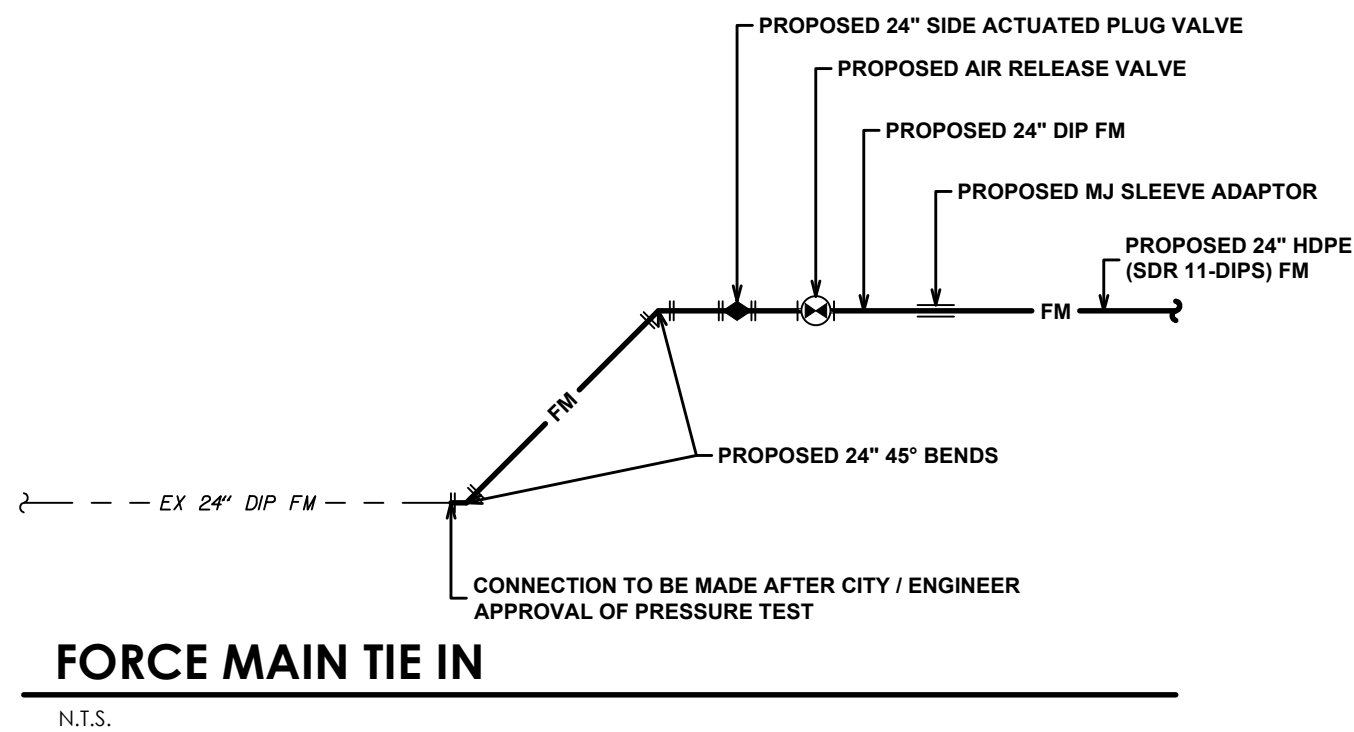
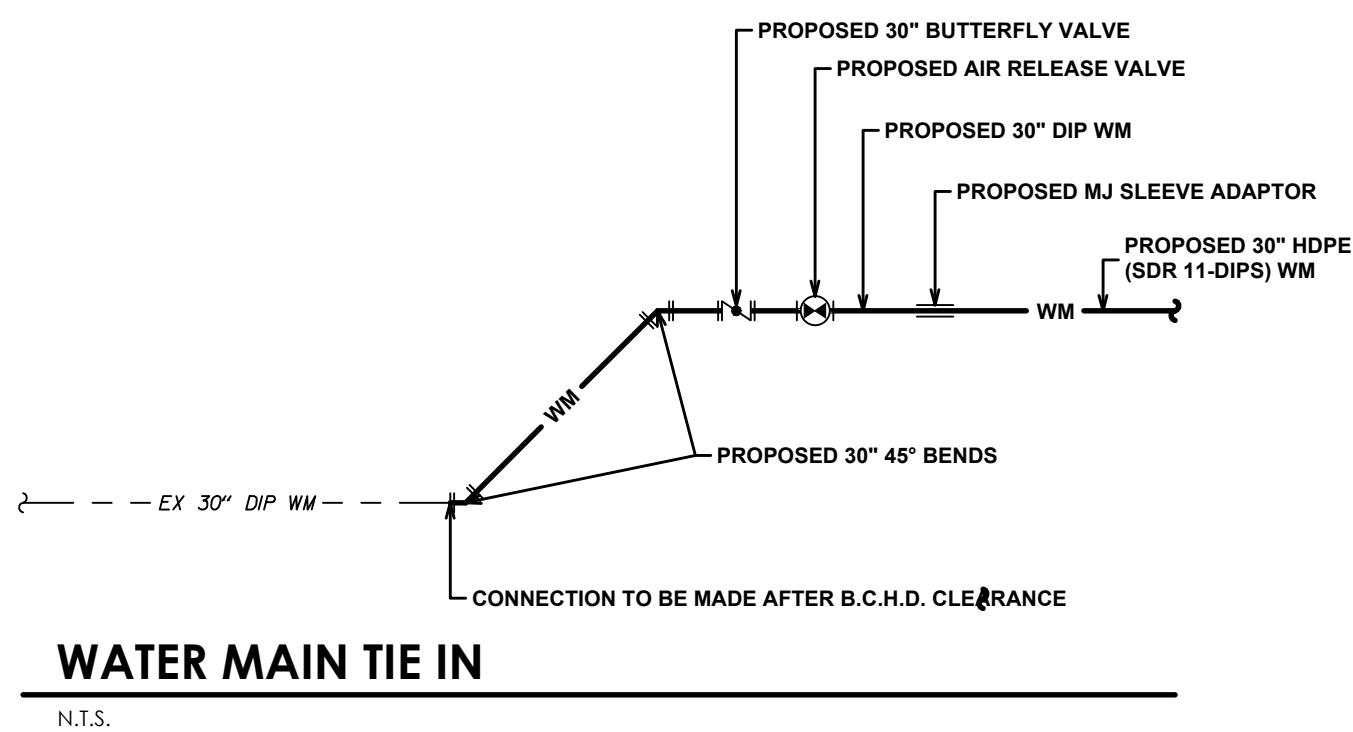
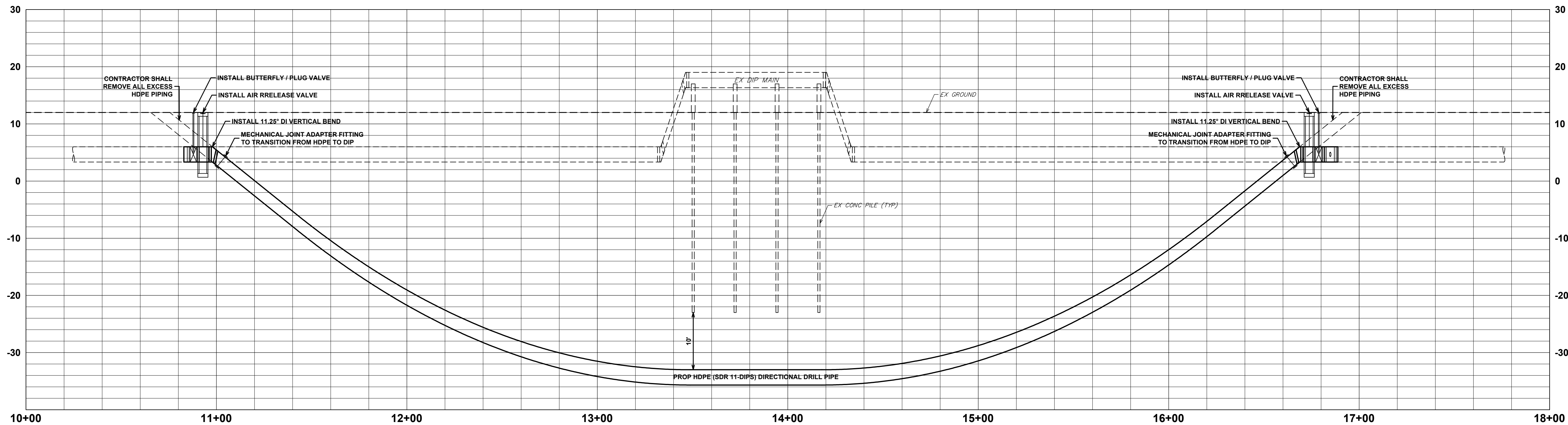
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CAC-1
1 OF 1

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Folder Path: V:\Proposals\2015\15-653 - Margate 2015-016 - Design Build Force an\Preliminary Design\CAD Filename: P15.653 Directional Drill Plan.dwg



DIRECTIONAL DRILL PROFILE

SCALE: 1"=30' HORZ | 1"=10' VERT



- GENERAL NOTES:**
1. PREVENT DEBRIS FROM ENTERING CANAL USING BMP's.
 2. PROTECT EXISTING PILES, PILE CAPS, CULVERT AND OTHER STRUCTURES.
 3. DIRECTIONAL DRILL TO BE INSTALLED AT A MINIMUM DEPTH OF 45' TO PROVIDE CLEARANCE UNDER EXISTING 35-FOOT DEEP PILES.

PRELIMINARY

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CLIENT

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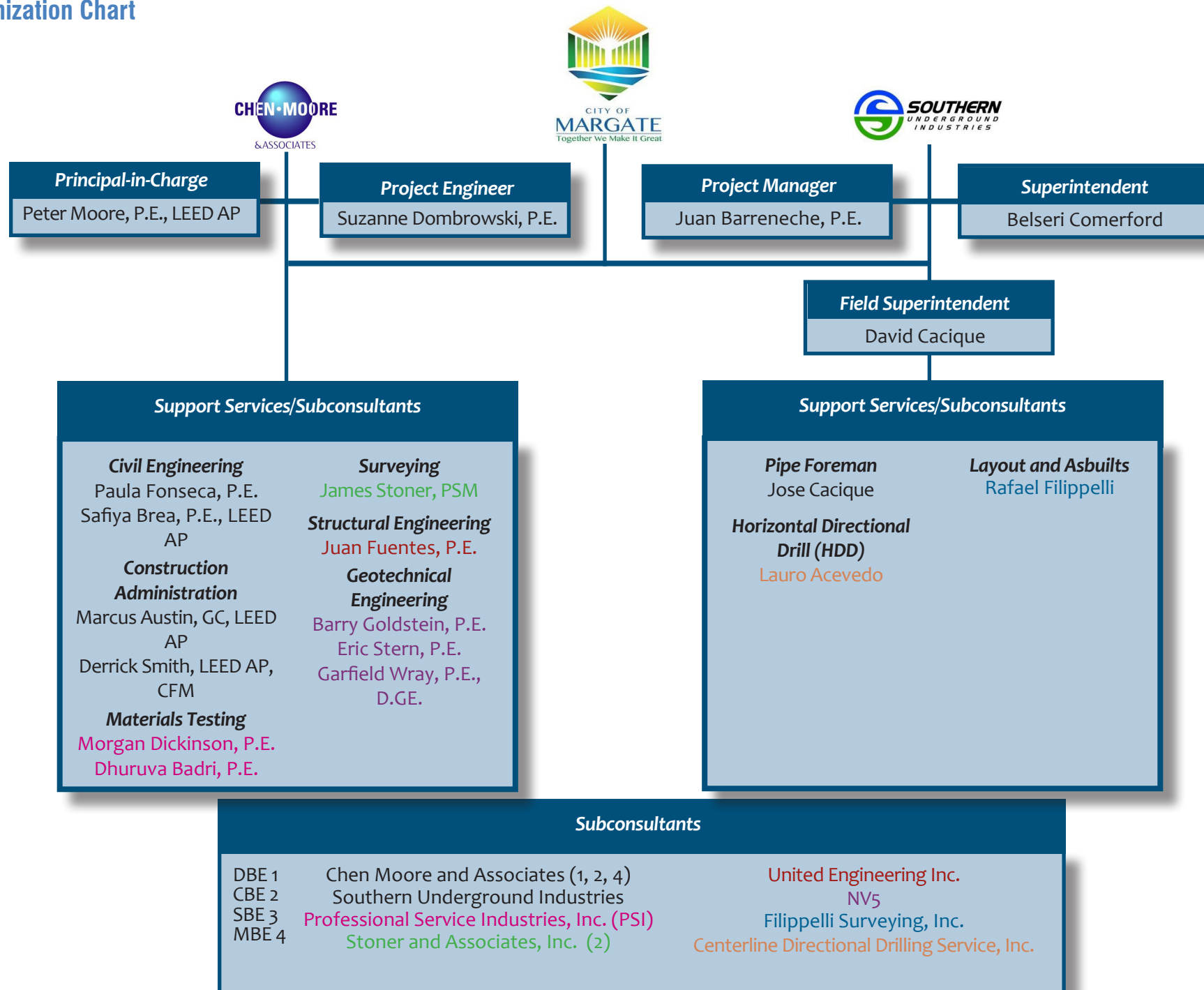
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DIRECTIONAL DRILL ALTERNATIVE CONCEPTUAL DESIGN PLAN
DRAWING NUMBER
CDD-1
1 OF 1

Project Team

Team Member Summary			
Name	Firm	Role	Field of Expertise
Peter Moore, P.E., F.ASCE, LEED AP	CMA	Principal-in-Charge	Design and construction of water distribution and transmission, sewer collection and transmission, agency coordination
Suzanne Dombrowski, P.E.	CMA	Project Manager	Design and construction of water distribution and transmission, sewer collection and transmission, subaqueous utility crossings, aerial utility crossings, agency coordination
Juan Barreneche, P.E.	Southern	Project Manager	Planning & Coordination of utility construction specializing in Directional Drill Design-Builds and neighborhood improvements.
Belseri Comerford	Southern	Superintendent	Planning of Field activities and resources for utility installations. Specializes in deep excavations in high water conditions.
David Cacique	Southern	Field Superintendent	Manages crew responsible for installation of special utility construction including pump stations and aerial crossings.
Jose Cacique	Southern	Pipe Foreman	Manages crew responsible for large diameter pipe installations.
Lauro Acevedo	Centerline	Horizontal Directional Drill (HDD)	Manages directional drill crew and coordinates all resources associated with drill pipe assembly and installation
Rafael Filippelli	Filippelli	Layout and Asbuilts	Surveyor responsible for pipeline layout and asbuilts of utility installations
Paula Fonseca, P.E.	CMA	Civil Engineering Support	Hydraulic modeling, design of water distribution and transmission, sewer collection and transmission, subaqueous utility crossings, above ground utility crossings
Safiya Brea, P.E., LEED AP	CMA	Civil Engineering Support	Design and construction of water distribution and transmission, sewer collection and transmission, subaqueous utility crossings, aerial utility crossings, agency coordination
Marcus Austin, G.C., LEED AP	CMA	Construction Inspections	Construction management of utility, drainage and roadway improvements
Derrick Smith, CFM, LEED AP	CMA	Construction Inspections	Construction inspections for utility improvements

Team Member Summary			
Name	Firm	Role	Field of Expertise
Morgan Dickinson, P.E.	PSI	Materials Testing	Materials Testing
Dhuruva Badri, P.E.	PSI	Materials Testing	Materials Testing
James Stoner, PSM	Stoner	Surveying	Surveying
Juan Fuentes, P.E.	United	Structural Engineering	Structural Engineering
Barry Goldstein, P.E.	NV5	Geotechnical Engineering	Geotechnical Engineering
Eric Stern, P.E.	NV5	Geotechnical Engineering	Geotechnical Engineering
Garfield Wray, P.E., D.G.E.	NV5	Geotechnical Engineering	Geotechnical Engineering

Organization Chart



Southern Underground Industries

Juan Barreneche, P.E. has over 11 years experience in the design and construction of water, sewer, and drainage infrastructure construction in South Florida. After beginning his career as Civil Engineering working on design and inspection with Chen and Associates (Team Member), he took his background and design experience and applied in on the contracting side of the business when he joined Ric-Man International. Since that transition, Mr. Barreneche has gained significant experience in Design-Build projects, specifically Horizontal Directional Drill projects. As a licensed engineer working for an underground contractor, he acted as the Construction Project Manager responsible for closely collaborating with the design consultants involved to ensure that cost and constructability considerations were incorporated into the final design. One such project was the \$4.4M Design-Build For Replacement of 48-Inch Force Main completed in 2007, where Mr. Barreneche acted as Construction Project Manager for Ric-Man Int'l and Chen and Associates acted as the Engineering Consultant Team Member to assist Broward County on relocating this critical line along the Florida Turnpike. Mr. Barreneche has acted as Project Manager/Project Engineer on over \$100 Million worth of capital improvements consisting of neighborhood improvement design-build projects, horizontal directional drills, transmission mains and specialty repairs. Mr. Barreneche holds a BS in civil engineering from University of Florida.



Belseri L. Comerford began working in the Underground Contracting business in 1984 when his father owned and operated Harlynn Incorporated which serviced the South Florida area. Since then Mr. Comerford has gained valuable experience working as a Foreman and Superintendant for some of the premier underground contractors in South Florida, including Rocco Ferrer, Lanzo, Ric-Man Int'l., and Intercounty Engineering. He founded Southern Underground Industries, Inc. in 2008 to put this valuable experience to work as a business owner. Over the years, Mr. Comerford has gained hands-on experience in all facets of underground construction, specifically for municipal clients in the South Florida area. Some highlights of his experience include a specialization in effective shoring and dewatering methods, pump station installation, horizontal directional drills, and tidal flood control installations. His understanding of the varying ground conditions and their effects on pipeline and structure excavations proves invaluable both to his company and the municipalities he serves.



Jose G. Cacique currently acts as Pipe Foreman for Southern Underground Industries, Inc and brings with him 18 years of experience working in utility construction in the Florida area. Mr. Cacique's experience is highlighted by some considerably large pipeline installations including 15,000 LF of 48-Inch DIP in Pinellas County, 36,000 LF of 42" DIP in the City of Cocoa, and most recently 40,000 LF of

20"/36" in Orange County. Mr. Cacique prides himself in having a clean organized operation in which all team members perform their given roles in an efficient and precise manner resulting a quality installation.

David G. Cacique currently acts as Pipeline/Specialty Foreman for Southern Underground Industries and has acted in all field positions of a pipeline crew since 1997. Mr. Cacique's meticulous nature lends itself to the effective performance of specialty installations such as pump stations, yard piping, valve insertions, etc. He brings with him considerable experience in large diameter pipeline installation. Some highlights of his experience include involvement as a foreman and operator include installation of 124,000 LF of vacuum sewer and force main in the City of Marathon and 30,000 LF of 8" water main in Boynton Beach.

Chen Moore and Associates

Peter Moore, P.E., LEED AP is ultimately responsible for all day to day operations of the firm. Mr. Moore works as the Client Project Manager for work in Broward County, Pompano Beach and Deerfield Beach and continues to be involved in the successful completion of projects. These projects include sanitary collection improvements, pump station rehabilitation, transportation engineering enhancements, water and reclaimed water consulting along with all other phases of civil engineering design and neighborhood improvements.



Suzanne Dombrowski, P.E. is a senior engineer with Chen Moore and Associates. Ms. Dombrowski has worked on multiple neighborhood improvement projects for Broward County, including sewer, drainage and roadway design and permitting. Ms. Dombrowski also managed the utility coordination projects for Riviera Beach Utility District, including the water and sewer designs, permitting and construction administration. She has experience using GIS during projects to calculate sewer and water flows, provide exhibits for permitting, prepare field study reports and various exhibits for coordination throughout construction.



Paula Fonseca, P.E. is a civil engineering graduate of Florida Atlantic University with nearly six years of experience. She serves as senior engineer in Chen Moore and Associates' West Palm Beach office and serves as the primary hydraulic modeler for the firm. She assists with design work using AutoCAD, GIS and InfoWater 8.1v. Ms. Fonseca has worked on neighborhood improvement projects for Broward County, utility coordination projects for Riviera Beach Utility District, including water and sewer designs and permitting, Design of GIS Utility Atlases for the City of Pompano Beach and Solid Waste Authority, as well as Palm Beach County Water Master Plan and Glades Regional Water Master Plan through the use of water modeling software and GIS.



Safiya Brea, P.E., LEED AP has over 13 years of experience with neighborhood improvement projects, including the design of roadways, sidewalks, drainage, water and wastewater infrastructure. She has managed projects ranging from thousands of dollars to multi-million dollar, large-scale neighborhood improvement programs. Ms. Brea has managed and designed streetscape improvements, roundabouts, lift station, stormwater improvements and master plans, and booster station basis of design reports. Her duties include construction In addition, management, managing GIS and Autocad design work, Cascade modeling, sewer modeling, and report preparation for municipalities throughout South Florida. In addition, she has worked on Broward County projects ranging from thousands of dollars to multi-million dollar projects. She has worked on all the BCWWS neighborhood improvement projects that the company has done and served as the project manager of the Broadview Park Neighborhood Improvement Project. She has years of experience working with various municipalities performing design and contract administration of utility infrastructure, subsurface utility design, traffic calming and roundabout projects. Ms. Brea holds a BS in civil engineering from University of Florida. As senior engineer for CMA, Ms. Brea will assist with civil engineering for this contract.



Marcus Austin, GC has over 20 years of design and development experience in South Florida to CMA. He is currently involved in both vertical and horizontal projects, which have a total construction value of over \$167 million. These projects include the Broadview Park Neighborhood Improvement Projects and various civil engineering projects for municipalities such as the City of Coral Springs, Pompano Beach and Ft. Lauderdale. Other building projects include Fire Station 80 for Coral Springs, which will be one of the first “Green” LEED certified buildings in south Florida. He obtained his General Contractor’s License in 2002, expanding the firm’s construction management capabilities which now include project management for building construction projects and design builds for infrastructure systems. Mr. Austin is also a certified NPDES and OSHA Training instructor and teaches these courses throughout the State of Florida. Mr. Austin holds an AS in civil/architectural engineering from Hudson Valley Community College. As director of construction services for CMA, Mr. Austin will provide construction administration services for this contract.



Derrick Smith, LEED AP, CFM serves as a construction project administrator and engineering inspector for the City of Coral Springs. Mr. Smith has over 10 years of experience as construction project administrator. His duties include program management of various municipal and commercial buildings. Mr. Smith ensures that projects are finished on time and under budget often providing cost effective solutions to contractors on behalf of the project owner. This includes analyzing change order requests to ensure cost accuracy and constructability.



Professional Service Industries, Inc. (PSI)

Morgan Dickinson, P.E. offers more than 36 years of experience with numerous projects, including roads, bridges, airports, high-rise buildings, and educational facilities. His background includes geotechnical engineering, construction material testing, construction engineering and inspection. Mr. Dickinson has successfully managed operations for firms specializing in construction materials testing and inspection and geotechnical engineering for over twenty-five years, as well as serving as a project engineer for seven years previous. He has managed Florida Department of Transportation (FDOT) contracts as both a prime and sub-consultant, is a Threshold Special Inspector in Florida, and a Professional Engineer in both Florida and Colorado. Mr. Dickenson holds an MS in geotechnical engineering from Northwestern University and a BS in civil engineering from the University of Colorado.



Dhuruva Badri, P.E. has 10 years of geotechnical experience on various public and private sector projects. A vast variety of his public sector projects have included work on roadways, bridges, canals, schools, healthcare facilities. Public sector clients include: Florida Department of Transportation (FDOT) (District IV, VI and Turnpike), Port(s) (Miami and Port Everglades), South Florida Water Management District (SFWMD), School District(s) and engineering services for various Cities and Municipalities. As part of his MS degree curriculum at the University of Florida, Mr. Badri performed extensive research on an FDOT managed project involving evaluation of axial capacity of large diameter cylindrical piles. Mr. Badri holds an MS in geotechnical engineering from University of Florida and a BE in civil engineering from the National Institute of Technology Karnataka, India.



Stoner and Associates, Inc.

James Stoner, PSM has been a Professional Surveyor and Mapper for over 40 years and is a second-generation land surveyor. He founded Stoner & Associates, Inc. in 1988. He manages all aspects of the firm’s growth and development. Mr. Stoner has extensive experience in all phases of land surveying. Stoner & Associates, Inc., is pre-qualified as a professional consultant for the: FDOT, SFWMD, Broward County Aviation Dept., Broward College, Town of Davie and City of Fort Lauderdale. He has supervised both small and large scale surveying projects. His firm has successfully completed numerous roadway and other various projects, while working directly with the clients and consultants. Mr. Stoner holds an AS in land surveying from Palm Beach Community College.



United Engineering, Inc



Juan Fuentes, PE, SE, LEED AP has twelve years of structural engineering experience. During this time, he has been involved in all aspects of a project from design concept through construction administration. He has worked on a variety of project types including educational, healthcare, institutional, municipal and sports facilities. Mr. Fuentes's knowledge of building materials and construction methods and experience working meticulously with the architects and engineers through all the stages of a project's life cycle make him an asset to the CMA team.

NV5



Barry Goldstein, P.E. is the Senior Vice-President of NV5. He has over 30 years of project experience in the fields of geotechnical engineering and construction materials testing. One of his responsibilities is to oversee the execution of geotechnical engineering and materials testing services for various projects. Under his guidance, NV5 maintains a state of the practice soils and concrete testing laboratory that performs work for private and public clients. During his career, he has performed and supervised extensive field and laboratory testing of soils, concrete, steel, asphalt, masonry, and other construction related materials. His expertise also includes the inspection and testing of foundation systems such as driven piles, drilled shafts and augercast piles. His knowledge includes the use of new technologies such as ground penetrating radar, pile integrity testing, and other non-destructive test methods.

Mr. Goldstein has performed geotechnical investigations and construction materials testing for roadways and bridges, MSE and other types of retaining walls, driven/drilled piles and drilled shafts and water and drainage structures. Mr. Goldstein has successfully directed and overseen the Miami-Dade County Professional Services Contract from 2006 to the present. Work on that contract has included geotechnical engineering and construction materials testing of soils and concrete for roadways, bridges, water and sewer projects and buildings.



Eric Stern, P.E. is a Project Manager with NV5. He has over 14 years of project experience in the fields of geotechnical engineering and construction materials testing. One of his responsibilities is to maintain the quality management for the materials testing and inspections services for various projects. As a project manager, Mr. Stern is responsible for the day-to-day operations of the soils and concrete testing laboratory that performs work for private and public clients. He provides technical oversight for compliance with local code and specifications. Mr. Stern also oversees QA/QC testing services including review of field testing and inspection reports, management of field and laboratory personnel and issuance of engineering reports.

During his career, he has performed and supervised extensive field and laboratory testing of soils, concrete, steel, asphalt, masonry, and other construction related materials. His expertise also includes the inspection and testing of foundation systems such as driven piles, drilled shafts and augercast piles. His knowledge includes the use of new technologies such as ground penetrating radar, pile integrity testing, and other non-destructive test methods. He has extensive experience with national and local accepted methods of materials and quality control testing including ASTM, AASHTO, and the Florida Building Code (FBC)

Mr. Stern has performed construction materials testing for roadways and bridges, driven/drilled piles and drilled shafts and water and drainage structures. Mr. Stern manages the laboratory and the technicians to ensure that clients are provided engineering services as requested and the requirements of the projects specifications are fulfilled.

Garfield Wray, P.E., D.GE. is the director of geotechnical engineering with NV5. He has over 31 years of civil engineering experience with over 29 years geotechnical experience and has provided project management and performed engineering analyses and design for a wide variety of engineering projects. He has extensive knowledge of geotechnical and foundation engineering design and construction issues. His projects include airports, marine ports, bridges, roadways and other infrastructure developments, industrial facilities including LNG terminals, oil and bauxite refineries, water and wastewater treatment plants and commercial and residential buildings up to 65 stories tall.



Filippelli Surveying, Inc.

Filippelli Surveying, Inc. was founded by **Rafael Filippelli**, Registered Surveyor, who has over 35 years of experience in land and construction surveying. He is responsible for multi-million dollar projects each year in construction survey and layout of: sanitary sewers, force mains, life stations, water mains, drainage, directional drills, and roadways. His experience includes layout of subdivisions and neighborhood improvement projects.

Centerline Directional Drilling Service, Inc.

Lauro Acevedo is the president of Centerline Directional Drilling Service and brings with him over 10 years experience in underground drilling throughout Florida in varying ground conditions. Mr. Acevedo is very familiar with all sizes of drills and has performed installations as small as 2" and as large as 30" for a variety of clients in the telecommunications and utility markets. He understands the importance of understanding the ground conditions and verification of underground utilities to the successful execution of each drill. Some of his recent project highlights include a 2851 LF 30-inch Water Main Drill from Manatee County, 1150 LF 24" Drill for Fort Lauderdale, and over 3,000 LF of 30" drills using Fusible PVC in Saratoga Springs, FL. In addition to this large diameter experience, Mr. Acevedo has as his experience base miles of installation of piping and conduits under 12-inches in diameter throughout Florida. Mr. Acevedo has completed numerous courses in the HDD industry.

Team Member Summary				
Name	Firm	Role	Percentage of time to be assigned to this project	Man Hours/Year
Peter Moore, P.E., F.ASCE, LEED AP	CMA	Principal-in-Charge	5	4
Suzanne Dombrowski, P.E.	CMA	Project Manager	50	42
Juan Barreneche, P.E.	Southern	Project Manager	40	10-15 hours/per week
Belseri Comerford	Southern	Superintendent	40	10-15 hours/per week
David Cacique	Southern	Field Superintendent	50	480
Jose Cacique	Southern	Pipe Foreman	100	480
Lauro Acevedo	Centerline	Horizontal Directional Drill (HDD)	100 (if alternate selected)	480
Rafael Filippelli	Filippelli	Layout and Asbuilts	10	480
Paula Fonseca, P.E.	CMA	Civil Engineering Support	70	147
Safiya Brea, P.E., LEED AP	CMA	Civil Engineering Support	10	147
Marcus Austin, G.C., LEED AP	CMA	Construction Inspections	20	62
Derrick Smith, CFM, LEED AP	CMA	Construction Inspections	70	140
Morgan Dickinson, P.E.	PSI	Materials Testing	25	40
Dhuruva Badri, P.E.	PSI	Materials Testing	25	40
James Stoner, PSM	Stoner	Surveying	25	24
Juan Fuentes, P.E.	United	Structural Engineering	25	40
Barry Goldstein, P.E.	NV5	Geotechnical Engineering	25	24
Eric Stern, P.E.	NV5	Geotechnical Engineering	25	24
Garfield Wray, P.E., D.GE.	NV5	Geotechnical Engineering	25	24

Professional Registration

2/04/10 PM 9/30/14

Licensee Details

Licensee Information

Name: COMERFORD, BELSERI L (Primary Name)
SOUTHERN UNDERGROUND INDUSTRIES INC (DBA Name)
Main Address: 3453 NW 44TH ST.
#205
LAUDERDALE LAKES Florida 33309
County: BROWARD
License Mailing:
License Location:

License Information

License Type: Certified Underground Utility and Excavation Contractor
Rank: Cert Under
License Number: CUC1224635
Status: Current,Active
License Date: 10/20/2008
Expires: 08/31/2016
Special Qualifications: Qualification Effective
Construction Business 10/20/2008

[View Related License Information](#)

[View License Complaint](#)

2/02/11 PM 9/30/14

Licensee Details

Licensee Information

Name: COMERFORD, BELSERI L (Primary Name)
SOUTHERN UNDERGROUND INDUSTRIES INC (DBA Name)
Main Address: 3453 NW 44TH ST.
#205
LAUDERDALE LAKES Florida 33309
County: BROWARD
License Mailing:
License Location:

License Information

License Type: Certified Underground Utility and Excavation Contractor
Rank: Cert Under
License Number: CUC1224635
Status: Current,Active
License Date: 10/20/2008
Expires: 08/31/2016
Special Qualifications: Qualification Effective
Construction Business 10/20/2008

[View Related License Information](#)

[View License Complaint](#)

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000
VALID OCTOBER 1, 2014 THROUGH SEPTEMBER 30, 2015

DBA: SOUTHERN UNDERGROUND INDUSTRIES INC
Business Name: SOUTHERN UNDERGROUND INDUSTRIES INC
Owner Name: BELSERI L COMERFORD
Business Location: 3453 NW 44 ST 205
LAUDERDALE LAKES
Business Phone: 354-454-0185

Receipt #: 10P-240242
Business Type: ALL OTHER TYPES CONTRACTOR
EXCAVATION UTILITY AND
BROWARD
Business Opened: 10/24/2012
State/County/CertReg: CUC1224635
Exemption Code:

Receipts: 3
Employees: 3
Machines: 3
Professionals: 3

For Vending Business Only						
Number of Machines:				Vending Type:		
Tax Amount	Transfer Fee	NGF Fee	Penalty	Prior Years	Collection Cost	Total Paid
21.00	0.00	0.00	2.78	0.00	0.00	23.78

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT
WHEN VALIDATED

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

Mailing Address:
BELSERI L COMERFORD
3453 NW 44 ST 205
FORT LAUDERDALE, FL 33309

Receipt #: 10P-240242
PAID 10/24/2014 23.78

2014 - 2015



Southern Underground Industries, Inc.

3453 NW 44 Street#205 Fort Lauderdale, FL 33309

County: Broward Ethnicity: African American
 Contact: Belseri Comerford Certification(s): CBE SBE
 Phone: 305-710-0470 Type: Construction Services
 Fax: 754-265-7868
 E-mail: southernUI@att.net Specialties:
 Web site: Installation of underground utilities
 Roadwork
 Pump Stations
 Broward County Vendor: Yes
 Vendor Number: VS0000015208
 File Number:

Description:

Centennial FDOT
 Florida Department of Transportation
 605 Sawassee Street
 Tallahassee, FL 32309-0400
 June 17, 2015

RE: CERTIFICATE OF QUALIFICATION

Dear Sir/Madam:

The Department of Transportation has qualified your company for the type of work indicated below. Unless your company is notified otherwise, this Certificate of Qualification will expire 6/30/2016. However, the new application is due 4/30/2016.

In accordance with S. 337.14 (1) F.S., your next application must be filed within (4) months of the ending date of the applicant's audited annual financial statements and, if applicable, the audited interim financial statements. Section 337.14 (4) F.S. provides that your certificate will be valid for 18 months after your financial statement date. This gives a two month period to allow you to bid on jobs as we process your new application for qualification. To remain qualified with the Department, a new application must be submitted subsequent to any significant change in the financial position or the structure of your firm as described in Section 14-22.005(3), Florida Administrative Code.


Your company's maximum capacity rating has been established based on Audited 2 Revised financial statements. To access it, please log into the Contractor Prequalification Application System via the following link: <https://www3.dot.state.fl.us/ContractorPreQualification/>

Once logged in, select "View" for the most recently approved application, and then click the "Message" and "Application Summary" tabs.

FOOT APPROVED WORK CLASSES:
 DRAINAGE, GRADEING, BREEDING AND SODDING

FOOT APPROVED SPECIALTY CLASSES OF WORK:
 UNDERGROUND UTILITY (WATER & SEWER), PUMP STATIONS, DIRECTIONAL DRILLING

You may apply, in writing, for a Revised Certificate of Qualification at any time prior to the expiration date of this certificate according to Section 14-22.004(3), Florida Administrative Code. Please be advised if certification in additional classes of work is desired, documentation is needed to show that your company has done such work with your own forces and equipment or that experience was gained with another contractor and that you have the necessary equipment for each additional class of work requested.

Sincerely,

 Alan Autry, Manager
 Contracts Administration Office

AA:ej

www.dot.state.fl.us

STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER
 CUC1520977

The GENERAL CONTRACTOR
 Named below IS CERTIFIED
 Under the provisions of Chapter 489 FS.
 Expiration date: AUG 31, 2016

BATTAGLIA, RALPH
 SOUTHERN UNDERGROUND INDUSTRIES, INC.
 3453 NW 44TH STREET #205
 FORT LAUDERDALE FL 33309

ISSUED: 02/16/2015 DISPLAY AS REQUIRED BY LAW SEQ # L150216000273

STATE OF FLORIDA
 DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
 CONSTRUCTION INDUSTRY LICENSING BOARD

LICENSE NUMBER
 CUC1224635

The UNDERGROUND UTILITY & EXCAVATION CO
 Named below IS CERTIFIED
 Under the provisions of Chapter 489 FS.
 Expiration date: AUG 31, 2016

COMERFORD, BELSERI L
 SOUTHERN UNDERGROUND INDUSTRIES INC
 3453 NW 44TH ST
 #205
 LAUDERDALE LAKES FL 33309

ISSUED: 06/03/2014 DISPLAY AS REQUIRED BY LAW SEQ # L140903000237

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
 115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000
 VALID OCTOBER 1, 2014 THROUGH SEPTEMBER 30, 2015

DBA: SOUTHERN UNDERGROUND INDUSTRIES INC
Business Name: SOUTHERN UNDERGROUND INDUSTRIES INC
Owner Name: BELSERI L. COMERFORD
Business Location: 3453 NW 44 ST 205 LAUDERDALE LAKES
Business Phone: 954-494-0105

Receipt #: 189-260262
Business Type: ALL OTHER TYPES CONTRACTOR (UNDERGROUND UTILITY AND EXCAVATION)
Business Opened: 10/16/2012
State/County/Cert/Reg: CUC1224635
Exemption Code:

Rooms	Seats	Employees	Machines	Professionals
		1		

Number of Machines:		For Vending Business Only				Vending Type:		Total Paid
Tax Amount	Transfer Fee	NSF Fee	Penalty	Prior Years	Collection Cost			
27.00	0.00	0.00	2.70	0.00	0.00	29.70		

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

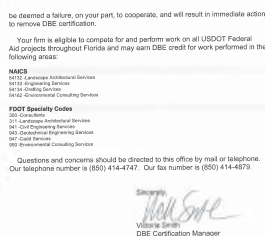
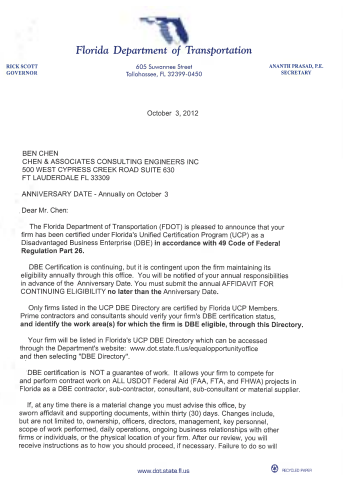
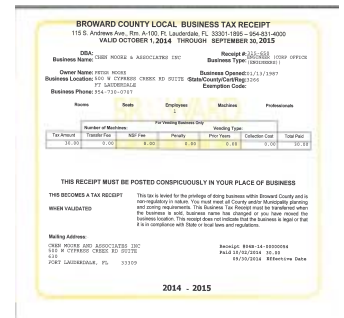
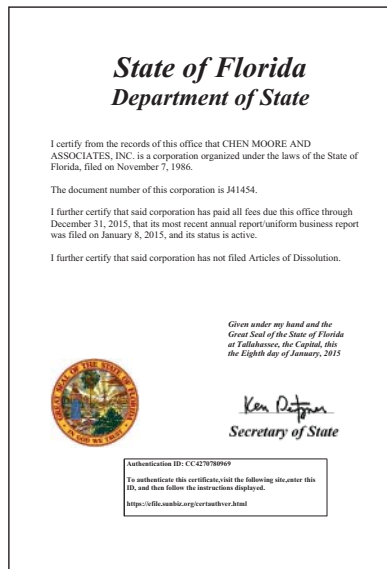
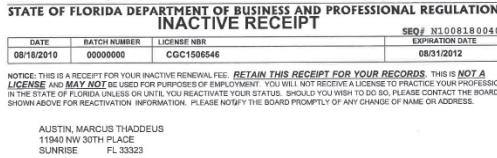
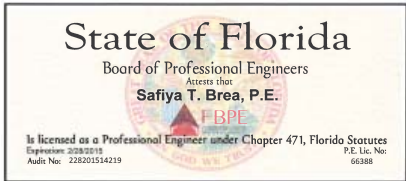
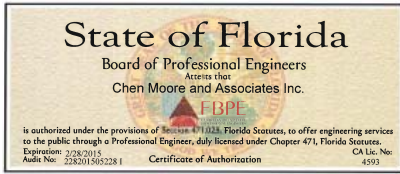
THIS BECOMES A TAX RECEIPT This tax is levied for the privilege of doing business within Broward County and is non-regulatory in nature. You must meet all County and/or Municipality planning and zoning requirements. This Business Tax Receipt must be transferred when the business is sold, business name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

WHEN VALIDATED

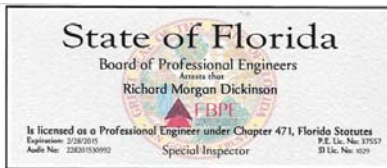
Mailing Address:
 BELSERI L. COMERFORD
 3453 NW 44 ST 205
 FORT LAUDERDALE, FL 33309

Receipt # 03A-14-00000272
Paid 10/20/2014 29.70

2014 - 2015



Professional Service Industries, Inc. (PSI)



BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1886 - 564-831-4000
VALID OCTOBER 1, 2014 THROUGH SEPTEMBER 30, 2015

Owner Name: PROFESSIONAL SERVICE INDUSTRIES, INC.
Business Location: 11500 SW 22 Ave 114 FT LAUDERDALE
Business Phone: 564-789-7131

Receipt #: 117-2315
Business Type: ENGINEERING SERVICE
Business Opened: 10/1/1983
State/County Certificate: 220121444
Exemption Code:

Number of Machines	Transfer Fee	MSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

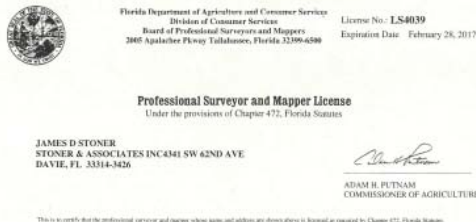
THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

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

When Validated:
MAILING ADDRESS: PROFESSIONAL SERVICE INDUSTRIES, INC. 115 S. ANDREWS AVE. Rm. A-100 FT. LAUDERDALE, FL 33301-1886
BANKING: 564-831-4000 FAX: 564-831-4000

2014 - 2015

Stoner and Associates, Inc.



BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT
115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1886 - 564-831-4000
VALID OCTOBER 1, 2014 THROUGH SEPTEMBER 30, 2015

Owner Name: STONER & ASSOCIATES, INC.
Business Location: 11511 SW 22 Ave 114 FT LAUDERDALE
Business Phone: 564-123-1234

Receipt #: 117-2315
Business Type: ENGINEERING SERVICE
Business Opened: 10/1/1983
State/County Certificate: 220121444
Exemption Code:

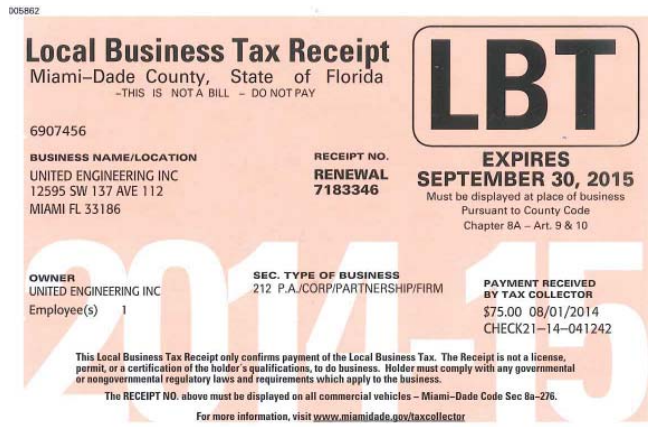
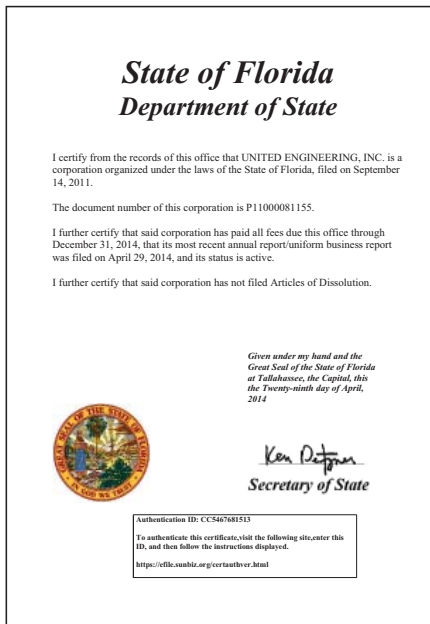
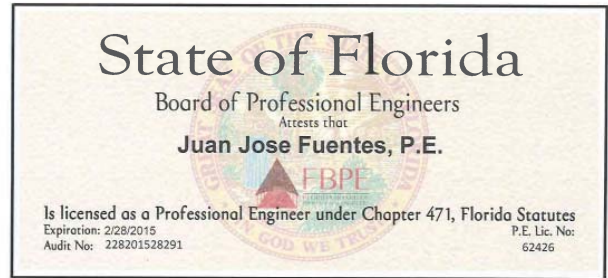
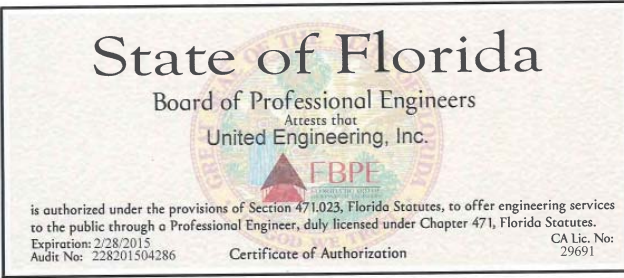
Number of Machines	Transfer Fee	MSF Fee	Penalty	Prior Years	Collection Cost	Total Paid
0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

THIS BECOMES A TAX RECEIPT
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When Validated:
MAILING ADDRESS: STONER & ASSOCIATES, INC. 11511 SW 22 Ave 114 FT LAUDERDALE, FL 33314-1426
BANKING: 564-123-1234 FAX: 564-123-1234

2014 - 2015



State of Florida Department of State

I certify from the records of this office that NV5, INC. is a Delaware corporation authorized to transact business in the State of Florida, qualified on March 5, 2010.

The document number of this corporation is F10000001138.

I further certify that said corporation has paid all fees due this office through December 31, 2015, that its most recent annual report/uniform business report was filed on January 16, 2015, and its status is active.

I further certify that said corporation has not filed a Certificate of Withdrawal.

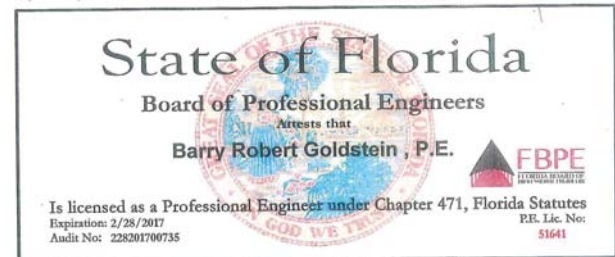
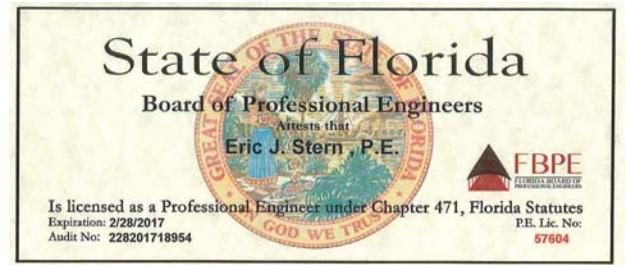
*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Sixteenth day of January, 2015*



Ken Detjen
Secretary of State

Authentication ID: CC9591287207

To authenticate this certificate, visit the following site, enter this ID, and then follow the instructions displayed.
<https://efile.sunbiz.org/certauthver.html>



Licensee Details

Licensee Information

Name: WRAY, GARFIELD LEONARD (Primary Name)
(DBA Name)
Main Address: 1201 BAYVIEW DRIVE
FORT LAUDERDALE Florida 33304
County: BROWARD
License Mailing:
License Location:

License Information

License Type: Professional Engineer
Rank: Prof Engineer
License Number: 49734
Status: Current, Active
License Date: 10/20/1995
Expires: 02/28/2017

Local Business Tax Receipt

Miami-Dade County, State of Florida
-THIS IS NOT A BILL - DO NOT PAY

5219654

BUSINESS NAME/LOCATION
NV5 KACO
14486 COMMERCE WAY
MIAMI LAKES FL 33016

RECEIPT NO.
RENEWAL
5455266

LBT
EXPIRES
SEPTEMBER 30, 2015
Must be displayed at place of business
Pursuant to County Code
Chapter 8A - Art. 9 & 10

OWNER
NV5 INC
Employee(s) 91

SEC. TYPE OF BUSINESS
212 P.A./CORP/PARTNERSHIP/FIRM
EB29994

PAYMENT RECEIVED
BY TAX COLLECTOR
\$470.93 11/11/2014
CREDITCARD-15-004643

This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business.

The RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec 8a-276.

For more information, visit www.miamidade.gov/taxcollector

8/26/2015

Gift Giver's Guide

 FIND A BUSINESS OR INDIVIDUAL
License / Complaint Lookup
*AS MAINTAINED BY THE
DIVISION OF CONSUMER SERVICES

FILIPPELLI SURVEYING, INC.

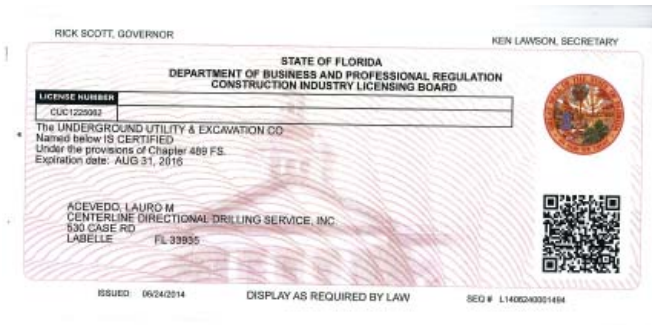
17831 ORANGE GROVE BLVD, LOXAHATCHEE, FL 33470-3553
Phone 561-719-0025

[Complaints](#) 0
[Print](#)

License Type	License#	Issued	Expires	Status
Surveyor Business	LB7822	03/31/10	02/28/17	Active
Surveyor of Record	LS4901	02/11/91	02/28/17	Active

<https://csapp.800helpfla.com/cspublicapp/businesssearch/businesssearch.aspx>

1/1



© 2014 Pearson Education, Inc.

- ## Proof of Insurance

ACORD 25 (2014/01)

© 1988-2014 ACORD
The ACORD name and logo are registered marks of ACORD

ACORD 25 (2010/01)
INS025 (2010025) 01

The ACORD name and logo are registered marks of ACORD

OFFEROR'S CERTIFICATION

WHEN OFFEROR IS A CORPORATION

IN WITNESS WHEREOF, the Offeror hereto has executed this Proposal Form this 1st day of SEPTEMBER, 2015.



(CORPORATE SEAL)

Southern Underground Industries, Inc.
Printed Name of Corporation

Florida
Printed State of Incorporation

By: [Signature]
Signature of President or other authorized officer

Belseri Comerford
Printed Name of President or other authorized officer

3075 NW South River Drive
Address of Corporation
Miami, FL 33142
City/State/Zip
954-650-4699
Business Phone Number

ATTEST:

By [Signature]
Secretary

State of Florida

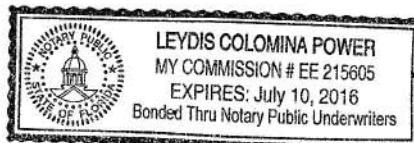
County of MIAMI DADE

The foregoing instrument was acknowledged before me this 1st day of SEPTEMBER, 2015, by BELSERI COMERFORD (Name), PRESIDENT (Title) of Southern Underground Industries, Inc. (Company Name) on behalf of the corporation, who is personally known to me or who has produced DRIVERS LICENSE as identification and who did (did not) take an oath.

WITNESS my hand and official seal.

[Signature]
NOTARY PUBLIC

Leydis Colomina Power
(Name of Notary Public: Print, Stamp, or type as Commissioned)



OFFEROR'S
QUALIFICATION STATEMENT

The undersigned certifies under oath the truth and correctness of all statements and of all answers to questions made hereinafter:

SUBMITTED TO: City of Margate (Purchasing Division)

ADDRESS: 5790 Margate Boulevard
Margate, Florida 33063

CIRCLE ONE

SUBMITTED BY: Southern Underground Industries, Inc. **Corporation**
NAME: Juan Barreneche **Partnership**
ADDRESS: 3075 NW South River Dr., Miami, FL 33142 **Individual**
PRINCIPAL OFFICE: 3075 NW South River Dr., Miami, FL 33142 **Other**

1. State the true, exact, correct and complete name of the partnership, corporation, trade or fictitious name under which you do business and the address of the place of business.

The correct name of the Offeror is: Southern Underground Industries, Inc.

The address of the principal place of business is:

3075 NW South River Dr., Miami, FL 33142

2. If Offeror is a corporation, answer the following:

- a. Date of Incorporation: 4/29/2008
 - b. State of Incorporation: Florida
 - c. President's name: Belseri Comerford
 - d. Vice President's name: Juan Barreneche
 - e. Secretary's name: Juan Barreneche
 - f. Treasurer's name: Belseri Comerford
 - g. Name and address of Resident Agent: Belseri Comerford
- If Offeror is an individual or a partnership, answer the following:

a. **Date of organization:** N/A

b. **Name, address and ownership units of all partners:**

N/A

c. **State whether general or limited partnership:**

N/A

4. **If Offeror is other than an individual, corporation or partnership, describe the organization and give the name and address of principals:**

N/A

5. **If Offeror is operating under a fictitious name, submit evidence of compliance with the Florida Fictitious Name Statute.**

N/A

6. How many years has your organization been in business under its present business name?

7 years

- a. Under what other former names has your organization operated?

N/A

7. Indicate registration, license numbers or certificate numbers for the businesses or professions which are the subject of this RFQ. Please attach certificate of competency and/or state registration.

CUC1224635 - Certified Underground & Excavation Contractor
CGC1522977 - Certified General Contractor

8. Have you ever failed to complete any work awarded to you? If so, state when, where and why?

No.

THE OFFEROR ACKNOWLEDGES AND UNDERSTANDS THAT THE INFORMATION CONTAINED IN RESPONSE TO THIS QUALIFICATIONS STATEMENT SHALL BE RELIED UPON BY OWNER IN AWARDING THE CONTRACT AND SUCH INFORMATION IS WARRANTED BY OFFEROR TO BE TRUE. THE DISCOVERY OF ANY OMISSION OR MISSTATEMENT THAT MATERIALLY AFFECTS THE OFFEROR'S QUALIFICATIONS TO PERFORM UNDER THE CONTRACT SHALL CAUSE THE OWNER TO REJECT THE PROPOSAL, AND IF AFTER THE AWARD TO CANCEL AND TERMINATE THE AWARD AND/OR CONTRACT.

(Signature)



State of Florida

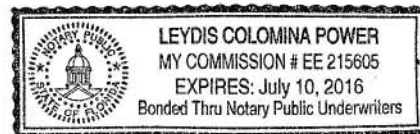
County of MIAMI-DADE

The foregoing instrument was acknowledged before me this 1ST day of SEPTEMBER, 2015, by Juan Barreneche, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

WITNESS my hand and official seal.



NOTARY PUBLIC



(Name of Notary Public: Print, Stamp, or Type as Commissioned)



NON-COLLUSIVE AFFIDAVIT FOR RFQ 2015-016

State of Florida)

)ss.

County of _____)

Juan Barreneche being first duly sworn, deposes and says that:

He/she is the Vice President, (Owner, Partner, Officer, Representative or Agent) of Southern Underground Industries, Inc. the Offeror that has submitted the attached Proposal;

He/she is fully informed regarding the preparation and contents of the attached Proposal and of all pertinent circumstances regarding such Proposal;

Such Proposal is genuine and is not a collusive or sham Proposal;

Neither the said Offeror nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Offeror, firm, or person to submit a collusive or sham Proposal in connection with the Work for which the attached Proposal has been submitted; or to refrain from bidding in connection with such Work; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Offeror, firm, or person to fix the price or prices in the attached Proposal or of any other Offeror, or to fix any overhead, profit, or cost elements of the Proposal price or the Proposal price of any other Offeror, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Work;

The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Offeror or any other of its agents, representatives, owners, employees or parties in interest, including this affiant.

Signed, sealed and delivered in the presence of:

Witness

Witness

By

Juan Barreneche

Printed Name

Vice President

Title

ACKNOWLEDGMENT
NON-COLLUSIVE AFFIDAVIT FOR RFQ 2015-016

State of Florida
County of MIAMI-DADE

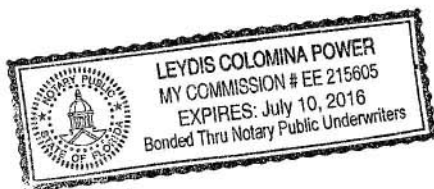
On this the 15th day of SEPTEMBER, 20 15, before me, the undersigned Notary Public of the State of Florida, personally appeared

JUAN BARRENECHE and
(Name(s) of individual(s) who appeared before notary)

whose name(s) is/are Subscribed to within the instrument, and he/she/they acknowledge that he/she/they executed it.

WITNESS my hand
and official seal.

NOTARY PUBLIC
SEAL OF OFFICE:



[Signature]
NOTARY PUBLIC, STATE OF FLORIDA
Leydis Colomina Power
(Name of Notary Public: Print,
Stamp, or Type as Commissioned)

☒ Personally known to me, or
☐ Produced identification:

(Type of Identification Produced)

☐ DID take an oath, or ☒ DID NOT take an oath

ACKNOWLEDGEMENT FORM

ADDENDUM NO. 1

RFQ NO. 2015-016 – DESIGN/BUILD 24-INCH FORCE MAIN AND 30-INCH WATER MAIN CANAL CROSSING

I acknowledge receipt of Addendum No. 1 for RFQ No. 2016-016 – DESIGN/BUILD 24-INCH FORCE MAIN AND 30-INCH WATER MAIN CANAL CROSSING. This addendum contains nine (9) pages. Please include the original of this form in your RFQ submission.

Company Name: Southern Underground Industries, Inc.

Address: 3075 NW South River Drive, Miami, FL 33142

Name of Signer Juan Barreneche
(please print)

Signature:  Date: 9/1/15

Telephone: 954-650-4699 Facsimile: juanb@southernui.com

Please fax your completed form to (954) 935-5258 or e-mail to purchase@margatefl.com.


Spencer Shambray
Purchasing Supervisor
8/31/15

OFFEROR'S CERTIFICATION

WHEN OFFEROR IS A CORPORATION

IN WITNESS WHEREOF, the Offeror hereto has executed this Proposal Form this 1 day of September, 2015.

Chen Moore and Associates
Printed Name of Corporation

Florida
Printed State of Incorporation

By: [Signature]
Signature of President or other authorized officer

(CORPORATE SEAL)

Peter Moore, P.E., LEED AP, CFM
Printed Name of President or other authorized officer

ATTEST:

By [Signature]
Secretary

500 West Cypress Creek Road, #630
Address of Corporation
Ft. Lauderdale, FL 33309
City/State/Zip
954.730.0707
Business Phone Number

State of Florida

County of Broward

The foregoing instrument was acknowledged before me this 1 day of September, 2015, by Peter Moore, P.E., LEED AP, CFM (Name), President (Title) of Chen Moore and Assoc. (Company Name) on behalf of the corporation, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

WITNESS my hand and official seal.

Kathryn J. Horrigan
NOTARY PUBLIC



Kathryn J. Horrigan
(Name of Notary Public: Print, Stamp, or type as Commissioned)

OFFEROR'S
QUALIFICATION STATEMENT

The undersigned certifies under oath the truth and correctness of all statements and of all answers to questions made hereinafter:

SUBMITTED TO: City of Margate (Purchasing Division)

ADDRESS: 5790 Margate Boulevard
Margate, Florida 33063

CIRCLE ONE

SUBMITTED BY: Chen Moore and Associates

NAME: Peter Moore, P.E., LEED AP, CFM

ADDRESS: 500 West Cypress Creek Road, #630 Ft. Lauderdale, FL 33309

PRINCIPAL OFFICE: 500 West Cypress Creek Road, #630 Ft. Lauderdale, FL 33309

Corporation

Partnership

Individual

Other

1. State the true, exact, correct and complete name of the partnership, corporation, trade or fictitious name under which you do business and the address of the place of business.

The correct name of the Offeror is: Chen Moore and Associates

The address of the principal place of business is:

500 West Cypress Creek Road, #630 Ft. Lauderdale, FL 33309

2. If Offeror is a corporation, answer the following:

a. Date of Incorporation: November 7, 1986

b. State of Incorporation: Florida

c. President's name: Peter Moore, P.E., LEED AP, CFM

d. Vice President's name: Jose Acosta, P.E. and Jason McClair, P.E., CFM, LEED AP

e. Secretary's name: Safiya Brea, P.E.

f. Treasurer's name: Jason McClair, P.E., CFM, LEED AP

g. Name and address of Resident Agent: Michael Popok 2525 Ponce de Leon Blvd.
Suite 700 Miami, FL 33134

If Offeror is an individual or a partnership, answer the following:

a. Date of organization:

N/A

b. Name, address and ownership units of all partners:

N/A

c. State whether general or limited partnership:

N/A

4. If Offeror is other than an individual, corporation or partnership, describe the organization and give the name and address of principals:

N/A

5. If Offeror is operating under a fictitious name, submit evidence of compliance with the Florida Fictitious Name Statute.

N/A

6. How many years has your organization been in business under its present business name?

4

- a. Under what other former names has your organization operated?

Chen and Associates 1986 - 2011

7. Indicate registration, license numbers or certificate numbers for the businesses or professions which are the subject of this RFQ. Please attach certificate of competency and/or state registration.

Florida professional engineering license: 4593

8. Have you ever failed to complete any work awarded to you? If so, state when, where and why?

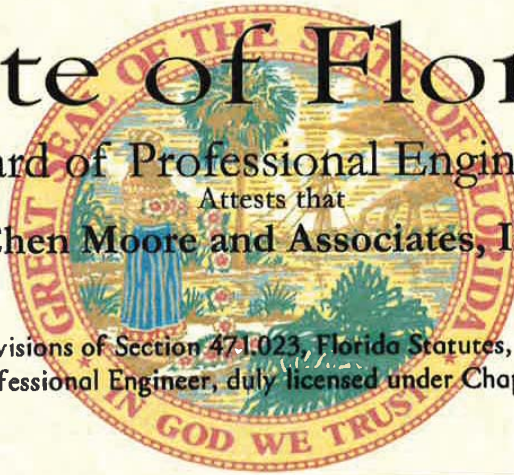
No.

State of Florida

Board of Professional Engineers

Attests that

Chen Moore and Associates, Inc.



FBPE
FLORIDA BOARD OF
PROFESSIONAL ENGINEERS

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

Expiration: 2/28/2017

Audit No: 228201700414

CA Lic. No:

4593

THE OFFEROR ACKNOWLEDGES AND UNDERSTANDS THAT THE INFORMATION CONTAINED IN RESPONSE TO THIS QUALIFICATIONS STATEMENT SHALL BE RELIED UPON BY OWNER IN AWARDING THE CONTRACT AND SUCH INFORMATION IS WARRANTED BY OFFEROR TO BE TRUE. THE DISCOVERY OF ANY OMISSION OR MISSTATEMENT THAT MATERIALLY AFFECTS THE OFFEROR'S QUALIFICATIONS TO PERFORM UNDER THE CONTRACT SHALL CAUSE THE OWNER TO REJECT THE PROPOSAL, AND IF AFTER THE AWARD TO CANCEL AND TERMINATE THE AWARD AND/OR CONTRACT.

(Signature)

State of _____
County of Broward

The foregoing instrument was acknowledged before me this 1 day of September, 2015, by Peter Moore, P.E., LEED AP, CFM, who is personally known to me or who has produced _____ as identification and who did (did not) take an oath.

WITNESS my hand and official seal.

Kathryn J. Horrigan
NOTARY PUBLIC



Kathryn J. Horrigan
(Name of Notary Public: Print, Stamp,
or Type as Commissioned)



NON-COLLUSIVE AFFIDAVIT FOR RFQ 2015-016

State of Florida)

)ss.

County of Broward)

Peter Moore, P.E., LEED AP, CFM being first duly sworn, deposes
and says that:

He/she is the President (Owner, Partner, Officer, Representative or Agent) of Chen Moore and Assoc., the Offeror that has submitted the attached Proposal;

He/she is fully informed regarding the preparation and contents of the attached Proposal and of all pertinent circumstances regarding such Proposal;

Such Proposal is genuine and is not a collusive or sham Proposal;

Neither the said Offeror nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Offeror, firm, or person to submit a collusive or sham Proposal in connection with the Work for which the attached Proposal has been submitted; or to refrain from bidding in connection with such Work; or have in any manner, directly or indirectly, sought by agreement or collusion, or communication, or conference with any Offeror, firm, or person to fix the price or prices in the attached Proposal or of any other Offeror, or to fix any overhead, profit, or cost elements of the Proposal price or the Proposal price of any other Offeror, or to secure through any collusion, conspiracy, connivance, or unlawful agreement any advantage against (Recipient), or any person interested in the proposed Work;

The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful agreement on the part of the Offeror or any other of its agents, representatives, owners, employees or parties in interest, including this affiant.

Signed, sealed and delivered in the presence of:

Witness

Witness

By

Peter Moore, P.E., LEED AP, CFM

Printed Name

President

Title

ACKNOWLEDGMENT
NON-COLLUSIVE AFFIDAVIT FOR RFQ 2015-016

State of Florida
County of Broward

On this the 1 day of September, 2015, before me, the undersigned Notary Public of the State of Florida, personally appeared

Peter Moore, P.E., LEED AP, CFM

and

(Name(s) of individual(s) who appeared before notary)

whose name(s) is/are Subscribed to within the instrument, and he/she/they acknowledge that he/she/they executed it.

WITNESS my hand
and official seal.

NOTARY PUBLIC
SEAL OF OFFICE:



Kathryn J. Horrigan
NOTARY PUBLIC, STATE OF FLORIDA

Kathryn J. Horrigan
(Name of Notary Public: Print,
Stamp, or Type as Commissioned)

☒ Personally known to me, or
☐ Produced identification:

(Type of Identification Produced)

☐ DID take an oath, or ☒ DID NOT take an oath

ACKNOWLEDGEMENT FORM

ADDENDUM NO. 1

RFQ NO. 2015-016 – DESIGN/BUILD 24-INCH FORCE MAIN AND 30-INCH WATER MAIN CANAL CROSSING

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Company Name: Chen Moore and Associates

Address: 500 West Cypress Creek Road, #630 Ft. Lauderdale, FL 33309

Name of Signer Peter Moore, P.E., LEED AP, CFM
(please print)

Signature:  Date: September 1, 2015

Telephone: 954.730.0707 Facsimile: 954.730.2030

Please fax your completed form to (954) 935-5258 or e-mail to purchase@margatefl.com.


Spencer Shambray
Purchasing Supervisor
8/31/15