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February 13, 2014

Ronald Archey, Procurement Specialist City of Fort Lauderdale City Hall 100 North Andrews Avenue, 6th Floor Fort Lauderdale, FL 33301

RE: RFQ Number: 946-11333 General Engineering Aviation Consultant Services

Dear Mr. Archey:

Ongoing improvements and expansion to Fort Lauderdale Executive Airport (FXE) are necessary to keep pace with The City of Fort Lauderdale's current and future growth projections. **HDR Engineering, Inc. (HDR)** and our partner firms are understand the importance of not only maintaining this state-of-the-art facility, as it continues to grow, but also understand the importance of studying, analyzing, planning and testing factors that can affect the operations of facility of this size and function.

We have assembled a highly qualified team with unsurpassed technical expertise and experience with Aviation facilities. The HDR Team is fully capable of performing all services identified in the Request for Qualifications (RFQ), as well as any additional elements that may arise throughout the duration of this contract.

The HDR Team is prepared to **Provide the Most Cost-Effective and Sustainable Solutions for General Engineering Aviation Consultant Services delivered on Time and Within Budget** for FXE through:

- Industry leadership in Aviation Engineering and Design
- Proven, responsive, Ft. Lauderdale based project management
- Substantial depth of Aviation expertise
- Excellent working relationship with FXE Staff
- Technical expertise and support from over 180 HDR offices and 8,000 staff

Focused on the successful delivery of this project, the HDR Team meets and exceeds the Evaluation Criteria outlined in the RFQ, as is demonstrated by our qualifications and our committed desire to be selected for this important project.

The City of Ft. Lauderdale and FXE are key clients for HDR and we are grateful for this opportunity to be of service. HDR and our teaming partners are committed to this project and we look forward to helping FXE set the standard for project delivery and technical excellence.

Respectfully Submitted,

Charles T. Sinclair, PE Senior Vice President, HDR Engineering, Inc. chuck.sinclair@hdrinc.com (954) 647-4542

> HDR Engineering, Inc. 3250 West Commercial Blvd, Suite 100 Ft. Lauderdale, FL 33309 hdrinc.com 14-0577 Page 2 of 178

PROPOSAL SIGNATURE PAGE

How to submit proposals: Proposals must be submitted by hard copy only. It will be the sole responsibility of the Proposer to ensure that the proposal reaches the City of Fort Lauderdale, City Hall, Procurement Services Division, Suite 619, 100 N. Andrews Avenue, Fort Lauderdale, FL 33301, prior to the proposal due date and time listed. Proposals submitted by fax or email will not be accepted.

The below signed individual hereby agrees to furnish services subject to all instructions, terms, conditions, specifications, and addenda contained in the Request For Qualifications (RFQ). I have read the RFQ and all attachments including the specifications and fully understand what is required. By submitting this signed Proposal I understand any resulting City contract will be subject to RFQ instructions, terms, conditions, specifications and addenda

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Submitted by:		02/13/2014
	(Signature)	(Date)
Name (Printed)	Charles T. Sinclair, PE	Title: Senior Vice President

Company: (Legal Registration) ______HDR Engineering, Inc.

FOREIGN CORPORATIONS MAY BE REQUIRED TO OBTAIN A CERTIFICATE OF AUTHORITY FROM THE DEPARTMENT OF STATE, IN ACCORDANCE WITH FLORIDA STATUTE §607.1501 (visit http://www.dos.state.fl.us/).

Address:	3250 West Comme:	rcial Blve,	Suite 100				
City_ ^{Ft.}	Lauderdale			_State:_	FL	Zip_	33309

Telephone No. <u>954-647-4542</u> FAX No. <u>N/A</u> Email: <u>chuck.sinclair@hdrinc.com</u>

Does your firm qualify for MBE or WBE status (General Conditions Section 1.09)? MBE _____WBE _____

<u>ADDENDUM ACKNOWLEDGEMENT</u> - Proposer acknowledges that the following addenda have been received and are included in its proposal:

Addendum No.	Date Issued
Addendum 1	01/20/2014
Addendum 2	01/20/2014
Addendum 3	01/23/2014

Payment by P-CARD: Will your firm accept the City's Credit Card as payment for services performed under a resulting contract?

YES _____ NO____

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Submitted by:			02/13/2014	
,		(Signature)	(Date)	
Name (Printed)	Charles T.	Sinclair, PE	Title:	_
Company: (Lega	al Registration)	HDR Engineering,	Inc.	

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YES _____ NO____



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Qualifications of Firm



Established in 1917, HDR is an architecture, engineering, planning and consulting firm that excels at helping clients manage complex projects and make sound decisions.

With more than 8,600 full-time technical employee-owners, HDR is a full service engineering and architectural firm with an international footprint. *Engineering News Record most recently ranked HDR #11 among the Top 500 Engineer Design Firms.* A leading Aviation planning and

History and Size

- Founded in 1917
- More than 8,600 Employee
 Owners
- More than 185 locations worldwide
- ✤ Serving Florida for 40 years
- Serving the South Florida communities for over 20 years with nearly 100 local professionals

design firm, HDR employs nearly 50 full-time, aviation engineering professionals, nationally. This includes one of HDR's Regional Aviation Design Centers in our Fort Lauderdale office which consists of 25 full service professionals who will be dedicated to delivering projects for the Fort Lauderdale Executive Airport. This group, in combination with HDR's local and statewide planning, intermodal and logistics, highway, economics, and environmental experts, routinely deliver a wide variety of aviation related General Engineering services.

As a local Ft. Lauderdale firm, HDR has provided consulting services in Florida for over 40 years, and nearly 20 years in the South Florida area. HDR employs nearly 100 employee-owners in South Florida, who collectively service clients in nearly every sector of civil, transportation, and facility engineering, including for Broward County Aviation Department on a similar General Engineering Contract for 5 years. The HDR Team is fully capable of performing all services identified in the Request for Qualifications (RFQ) as well as any additional elements of work that may arise throughout the duration of this General Engineering Aviation Consultant Services contract.





Our Company's Culture Drives Our Business

Our Mission

To support activities aligning with our values and areas of expertise to benefit the communities where we live and work.

Our Vision

Shaping the future through creative solutions and visionary leadership.

Corporate Responsibility

Corporate responsibility means being accountable to our employees, clients, communities and the environment, in our personal as well as professional lives. We strongly believe that giving back is not only a civic duty, but a privilege.

HDR offers world class expertise delivered through a strong local practice

HDR provides a full spectrum of services for our clients. Our staff of professionals represents hundreds of disciplines that partner on blended teams worldwide to provide solutions beyond the scope of traditional A/E/C firms.

HDR's operating philosophy is to be an expertise-driven firm that delivers tailored solutions through a strong local presence. HDR's ability to draw upon companywide resources and expertise is a great strength in meeting and exceeding your expectations.

HDR is one of the premier engineering firms in the country. Engineering News Record (ENR) consistently ranks HDR among the top firms in almost every category related to infrastructure and environment.

HDR's Internal Sustainable Business Practices...How We Walk the Talk on Sustainability

HDR puts a strong emphasis on sustainability at all levels of the company. We believe it's our professional responsibility to our employees, clients, the industry and the environment to challenge conventional thinking as we create places that are good for our clients, our communities and our planet. HDR's Sustainability Vision guides our decisions related to sustainability. As part of our company's strategic planning process the vision is updated to ensure that the company is at the forefront of sustainable business practices. HDR began the process of addressing our organization's environmental impacts over 10 years ago. We have focused on understanding our most significant impacts as a service organization, and are aggressively working to reduce our carbon footprint by improving operational efficiencies, engaging staff participation to green our offices, and developing sustainable solutions in the areas where we have the most significant impacts.

Currently, the dominant sustainability metric in our industry is the amount of carbon dioxide emitted to the atmosphere. To that end, we specifically have stated a goal of reducing our own GHG emission levels 20% by 2020 from our 2011 baseline, adjusted for growth. HDR is committed to delivering sustainable projects solutions for our clients, as well as promoting sustainable business practices that benefit our employees, clients and communities for generations to come.

HDR offers a comprehensive sustainability planning services for public and private sector clients to meet voluntary goals or regulatory requirements. Our services include sustainability visioning and goal-setting, development of a sustainability baseline, identification of strategies to meet sustainability goals, prioritization of strategies based on sustainable benefits using HDR's SROI methodology, development of implementation plans, monitoring and reporting progress towards meeting goals, and development of corporate sustainability reports based on the Global Reporting Initiative (GRI) framework. We have

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created an approach to sustainability planning based on best practices and experience, and that is always catered to the specific needs of the facilities.

Below is a summary of HDR's Sustainable Design Portfolio, which is one of the most comprehensive of any A/E firm Nationally.

LEED PROJECTS							
Certified Project Stats							
Product	Number	Square Feet					
LEED-NC	64	10,985,859					
LEED-CS	2	256,000					
LEED-EB	4	1,236,000					
LEED-Homes	2	4,186					
LEED-CI	6	92,100					
TOTAL CERTIFIED	78	12,574,145					

Summary of LEED Certified Projects and Ratings									
Rating/Product	LEED-NC	LEED-CS	LEED-EB	LEED-CI	LEED-Home	TOTAL			
Platinum	2	2	0	1	2	7			
Gold	25	0	0	1	0	26			
Silver	20	0	2	4	0	26			
Certified	17	0	2	0	0	19			
TOTAL	64	2	4	6	2	78			

Envision[™] Sustainable Infrastructure Rating System

HDR was one of the first firms to have participated in the development of the newly released Envision[™] Sustainable Infrastructure Rating System. Envision was developed to help project teams improve the performance and viability of infrastructure through the application of more sustainable technologies and methodologies. In fact HDR is the first company to register and certify a project with ISI – the William Jack Hernandez Sport Fish Hatchery project – which recently obtained the first Envision Gold Certification in the country. HDR has over 130 Envision Sustainability Professionals (ENV SPs) and 7 credentialed Envision Verifiers. There are only 700 ENV SPs throughout the country, and HDR makes up 20% of the total. More information about Envision can be found in Section 6.

HDR's involvement with ISI & Envision™

- Charter Member of ISI
- First company to register a project with ISI, in December 2012
- First company to complete an Envision[™] project verification: Gold Level Award in July 2013
- Developed comprehensive training module to prepare staff to take the Envision[™] SP exam
- Exceeded our goal of credentialing more than 100 professionals in 2013
- Dedicated to helping clients understand and implement the rating system on their projects, so getting our professionals credentialed is a priority



Understanding of the Project and Approach to Scope of Work

The HDR Team has an excellent understanding of all anticipated Aviation Engineering aspects of the projects proposed at FXE, based on over twenty-five years of recent and relevant experience in identical work elsewhere across Florida and beyond. It is important that the City consider the experience gained on other local, performed by local Aviation Design Experts, projects as proof-positive that this team has what it takes to accomplish every aspect of the General Aviation Consultant Services Role at FXE.

Our core team has extensive experience in working with airport operators and owners, who must administer, maintain and operate commercial service and general aviation facilities. This requires a variety of professional knowledge to ensure that projects do not have a "one size-fits-all" mentality. The HDR Team understands the varied requirements in operational requirements, fleet mix and tenant base that can be expected, and will work closely with FXE to ensure that project scopes and expectations are well aligned. Our approach to General Consulting Service's contract is as an opportunity to build a relationship as a trusted advisor to our clients. Our main goal is to be there for FXE for the long run by serving as an extension of your staff. This mean not only being available for project related items but to become an integral part of your team by assisting in evaluating your Capital Improvement Program, helping to generate additional business for FXE and by serving as a trusted advisor to your Aviation Advisory Board and City Commission.

We understand the importance of your GEC to be responsive, dedicated and flexible, providing a range of professional airport consulting and design services based upon your operational and capital improvement requirements and business objectives.

Specialized Approach to Deliver FXE Program

To provide a more project specific look at our TEAMS project approach, we have provided brief approach write ups



Our proximity to FXE allows HDR to responsive, dedicated, and flexible

for the projects provided in Section III – Scope of Services of the Request for Qualifications. The following paragraphs provide our preliminary assessment of each of the project elements set forth in the RFQ document, and offer some initial insights on how the HDR Team proposes to address these projects. We have also woven our detailed approach to each assignment in this overall section. Based on the work tasks at hand, our understanding and approach are one and the same.

- Taxiway Sierra Pavement Rehabilitation
- → Runways 8/26 & 13/31 Pavement Rehabilitation
- Administration Building Expansion
- ✤ Airfield Lighting Rehabilitation
- Pedestrian Bike Path
- Airport Master Plan

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Taxiway Sierra and Runways 8/26 & 13/31 Pavement Rehabilitation Understanding of Detailed Design Activities



Successful projects are the result of strong, experienced and knowledgeable project teams, as well as the development and implementation of clear, but detailed work plans. For the Rehabilitation of Airfield Pavement and Related Work at FXE, the HDR Team approach includes a multi-step approach which provides an organized process to understand all of the nuances of the

project environment, and continuing on to the detailed design analysis, final design, bidding and finally construction phase services and project closeout:

PHASE I - DATA COLLECTION, PROJECT INITIATION AND PRE-DESIGN INVESTIGATIONS: Once the work plan as described above is complete, this initial phase of the project will include the collection, compilation and review of existing project related data and documents, including items such as planning and environmental reports, technical memoranda, record plans, geotechnical reports, existing utility data and documentation, existing mapping and survey control information, FXE operational characteristics, data and constraints (including fleet mix, operations, RW end utilization), construction phasing and sequencing concerns, and other similar information.

PHASE II - PROJECT PLANNING AND CONCEPTUAL ALTERNATIVES EVALUATION PHASE: Airfield

planning is an essential component for the orderly and cost effective development of an airport, and of airport systems. A critical element of the planning process is the identification, investigation, analysis and evaluation of project alternatives that meet the intent of the project and achieve the goals and objectives established for the project. From this exercise, the best alternative is selected and advanced forward into design and construction. Just as important in this phase of the project is the communication and coordination with the FAA, FDOT, airlines and airport tenants as it relates to alternatives evaluations, impacts to lighting systems, NAVAIDS and current and future airfield operations.

Airport Staff and the HDR Team will identify the most feasible alternatives for evaluation depending on a myriad of factors. Those factors include such elements as cost, airfield operational requirements (i.e. minimum desired runway length and width during and following construction), aircraft taxiing movements, work adjacent to crosswind runways such as the use of partial closures and declared distances, alternate taxi routes, construction schedule and associated temporary impacts (to runway length, aircraft movements, ILS downtimes, if any), runway lighting and signage layouts, and other project aspects to maintain the current level of service throughout the project.



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Various analyses, reports, alternatives, investigations, workshops, and meetings will be used to provide Airport Staff with options, reconstruction alternatives and improvements, and "lessons learned", which will be considered prior to preparation of contract documents. An opinion will be provided regarding the benefits and costs associated with each of the possible alternatives. It is recognized that the results of the analysis and evaluation phase will not fully define the project, but will have an impact on the scope and approach to the construction document design phase.

Issues that may be evaluated during the project planning and conceptual alternatives evaluation phase include:

- ✤ Pavement Analysis and Construction/Reconstruction Alternatives
- ✤ Runway and Taxiway Outage Requirements and Impacts
- Construction Safety and Phasing Alternatives Analysis
- Runway Lighting Systems Analysis
- Contractor Information Meetings
- Asphalt Plant Location Analysis and Construction Impacts

Runway and Taxiway Pavement Analysis

Background: The HDR Team will establish all background data for each project assignment based on preliminary visual inspections of the pavement sections, drainage characteristics, and lighting systems. The historic Construction Plans will be evaluated to identify the previous rehabilitation work consisting of variable thickness P-401 layers over the overall pavement areas.

Pavement Condition: Performance of the pavements will be evaluated and discussed with the airport maintenance staff and management. During the visual inspection, the overall general condition of the of pavements will be observed and the distress types, as defined by ASTM D 5304, will be identified, such as block cracking, longitudinal cracking (Figure 1), raveling and weathering, corrugation [or ripple] (Figure 2), and depression. Figures #1 and #2 show typical longitudinal working cracks; loss of most surface fine aggregate, plus evidence of loss of coarse aggregate; and the corrugation, or ripple distress type, in the longitudinal direction in a parallel pattern transversely across a Runway pavement. The latter ripple distress type is a moisture related distress type caused by moisture vapor trapped beneath the asphalt surface and high temperatures causing the vapor to expand, pushing up on the pavement surface layer. The rehabilitation strategy should address this ripple distress type.

The review will also include evaluation of any evidence of structural and/or load associated distress types. The overall condition of the pavement will be rated (in conjunction with the FDOT Pavement Management Report) from excellent to poor,



Figure 1 - Longitudinal Crack Distress



Figure 2 - Corrugation (Ripple) Distress

including concern from the high potential FOD levels. Sample FOD potential is evident in Figure #2 which shows where large aggregate particles have been dislodged from the pavement surface from the severe raveling and weathering. Additional FOD potential can result from ragged spalling at the edges of the numerous working cracks depicted in Figure #1. The requirement for an immediate rehabilitation strategy is evident from the severity of the distress types annotated above.

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Geotechnical Study: The HDR Team will develop parameters for a geotechnical study to define in clear engineering terms the soil information and representative layer thickness of the various sections that comprise Runway 4-22 and the associated scope to involve the Taxiway Connectors to the hold lines, and Taxiway K. The information contained in the United States Geological Survey (USGS) topographic maps and the United States Department of Agricultural (USDA) Soil Conversation Service (SCS) Soil Survey of Pinellas City will be reviewed. The more important part is comprised of a geotechnical investigation to include approximately 30 cores of which 50 percent will require bore holes [split-spoon sampling and standard penetration test (SPT) in accordance with ASTM D 1586], water content, and water table data to a depth of 5.0-ft. In addition, approximately six to eight subgrade samples will be required to conduct laboratory CBR tests to determine representative design subgrade strengths in accordance with ASTM D 1883 and FAA 150/5320-6E guidelines.

Aircraft Fleet and Traffic Analysis: The HDR Team will accomplish a thorough analysis of the 2009 (or updated) Master Plan projected aircraft traffic fleet and annual departures over the forthcoming 20 years. This step has increased importance when using the FAA mechanistic design procedures that have been implemented in the new FAA Rigid and Flexible Iterative Elastic Layered Design [FAARFIELD] software under the AC 150/5320-6E.

A wide variety of aircraft gear types and configurations are cataloged in the new FAARFIELD software and have a significant impact on load distribution and calculation of cumulative damage factor (CDF) leading to fatigue life of a pavement. Since the existing pavement have a design based on empirical "Design Aircraft" concepts, the analysis and methodology of transforming to the new mechanistic procedures should produce greater economic benefits, but will require comparative engineering judgment based on the methodologies and section requirements attributed to the more precise thickness calculations produced by the FAARFIELD procedures.

Pavement Design Sections: The HDR Team will employ engineering judgment in exercising the FAARFIELD software to determine the pavement sections required for rehabilitation of Runways and Taxiways, based on the following:

- Geotechnical Investigation: determine layer thickness and layer modulus values from geotechnical investigation, material testing results, and available historical engineering data.
- **CBR Laboratory Tests:** estimate subgrade strength values ≤87.5 percent of all CBR test values correlated with in-situ parameters and water content determinations.
- **20-Year Pavement Life:** establish/coordinate aircraft fleet and forecast annual departures with 2009 Master Plan or updated Master Plan if requested, and using agency requirements.

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EXHIBIT 3 14-0577 Page 12 of 178 **Rehabilitation Strategy:** The HDR Team will evaluate and develop a rehabilitation strategy through state-of-the-practice alternatives and methodologies applicable to airport runway construction techniques and climatic environment, including as examples, but not limited to the following:

- Conventional Cold Mill, Crack Seal and Overlay [Figure #3]
- Full Depth Reclamation (FDR) and Overlay [Figure #4]
- Cold Mill, Asphalt Rubber Membrane Interlayer (ARMI), and Overlay [Figures #5 and #6]
- Superpave HMA System with Modified Performance Grade (PG) Asphalt Binder

Cold Milling, Crack Seal and Overlay – The conventional mill, crack seal and overlay technique in rehabilitation have been used throughout Florida for decades in maintaining the state's airfield pavements. One of the advantages of this practice is the ability to mill only a small portion of the oxidized surface followed by placement of the new HMA overlay. This process has the advantage of maintaining the maximum amount of underlying pavement as part of the overall pavement structure. Crack sealing and filling followed by placement of new technology geotextile fabrics prior to the overlay can serve to mitigate the propagation of cracks into the surface layer.



Figure 3 - Conventional Cold Mill & Overlay Construction

However, the cracks remain and will eventually propagate into the finished surface over the life of the pavement. A typical cold mill and overlay construction procedure is depicted in Figure #3.

FDR – The FDR technique in rehabilitation has the advantage to eliminate the potential for propagation of cracks into the surface layer as well as eliminating the other environmental distress types annotated as depressions and corrugations, or ripple distress types. An alternative in this same family is the Partial Depth Reclamation, where only the asphalt is reclaimed. A typical FDR construction procedure is depicted in Figure #4.

Asphalt Rubber Membrane Interlayer (ARMI) – Another potential rehabilitation technique could incorporate a mill and overlay plan designed to meet the forecast annual aircraft



Figure 4 - Full Depth Reclamation (FDR) Base

departures over the period 2014-2034. Because of the cracking distresses and the potential propagation of substantial cracks into the surface layer and the proximity of the ground water table, an ARMI technique is a highly acceptable candidate. The ARMI would be constructed as a crack relief layer and as a moisture barrier from surface water and subsurface water sources. Figures #5, and #6, show the ARMI being utilized on a Taxiway prior to placement of the P-401 (Superpave). These pavements have performed well under heavy traffic.



Figure 5 - Completed ARMI at Time of Test Section Construction

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Figure 6 - Completed ARMI/Rubber Modified

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Superpave Technology – For these projects, Engineering Brief No. 59 Item P-401 Plant Mix Bituminous Pavements (Superpave) is recommended in lieu of the conventional Item P-401 Plant Mix Bituminous Pavement based on the state-of-the-practice in placing HMA by the Florida Department of Transportation (FDOT). In 1996 the FDOT began implementing the Superpave asphalt mix design system into the state highway specifications. The FDOT Superpave implementation by the number of tons of Superpave HMA has grown from 6700 tons to over 5 million tons annually since 2003.

Since 2004, the Superpave design methods have been used on pavement projects at major airports throughout the State of Florida with outstanding success, including Orlando International Airport, Orlando Sanford International Airport, Jacksonville Aviation Authority's Herlong and Cecil Field Airports, Bay City-Panama City International Airport, Miami International Airport, and others. AVCON has led the Superpave state-of-the-practice for implementation of HMA applications for five of these airports.

- FAARFIELD: FAARFIELD (for FAA Rigid and Flexible Iterative Elastic Layered Design) design procedure is the current FAA standard per Advisory Circular 150/5320-6E, Airport Pavement Design and Evaluation. HDR and AVCON have extensive experience utilizing FAARFIELD as a design tool, and are familiar with its requirements and output, and will use this software as required by FAA. The HDR Team also proposes to consult with the City and Airport Staff on strategies to upgrade the pavement to accommodate the larger aircraft already operating at the airfield in conjunction with our Master Planning Update and inter-governmental outreach to address statutory limitations on aircraft pavements. The only real effect of this historical agreement is to require more frequent pavement programs to operate the quieter but larger aircraft already in service at FXE.
- Rehabilitation Systematic Selection Process: The investigation process to this point has been focused primarily on obtaining project information to perform the engineering analysis, including design data, traffic data, soil subgrade and layer material characteristics, visual distress types and pavement condition, performance data, drainage survey reports, etc. As noted above, there are promising alternatives, however, the overall major rehabilitation categories of restoration, recycling, resurfacing, and reconstruction will be considered as various alternatives for consideration in the selection process. Thus, with the technically feasible alternatives defined at this point, it is necessary to include all decision criteria, both monetary and nonmonetary, that will be used in selecting the preferred alternative. Engineering factors such as pavement closures and air-traffic control options, time of closure, material and equipment availability, and prevailing climatic conditions must be considered, and, of course, the identifiable costs to the owner and user must be a consideration. Therefore, a life-cycle cost analysis of each alternative will be conducted that considers all relevant costs to provide the information for economic analysis along with the engineering analysis. Selection of the preferred rehabilitation alternative will evaluate each alternative with respect to selected decision criteria which is jointly determined by the Owner and Engineer. The best way to compile and illustrate the information is through the use of a detailed matrix tabulating each alternative with its specific impacts.
- Engineers Report: The HDR Team will provide a formal Preliminary Engineering Report for the Rehabilitation Projects generally including, but not limited to, technical and economic analysis covering the following topical areas:
 - Background information/historical data;
 - Pavement condition assessment;
 - Geotechnical study for selection of subgrade strength and material characterization of existing pavement layers;



- Aircraft traffic fleet/average annual departures;
- Structural design analysis to develop alternative pavement sections using FAARFIELD software and FAA AC 150/5320-6E guidelines;
- Develop state-of-the-practice rehabilitation strategies/potential alternatives;
- Implement systematic selection process using both engineering and economic models to provide the most feasible, cost effective strategy for final design and construction phases for the Rehabilitation of the pavements; and
- Summarize conclusions and recommendations to support development of plans, specifications and cost estimate package.

PHASE III - PRELIMINARY DESIGN PHASE: This phase of the project will establish the approach to the technical issues identified in the Planning and Alternatives Phase (II), and will serve as the basis for the development of preliminary design documents for the selected alternative. Preliminary construction plans (representing approximately 30% design) will be prepared to a level consistent with the verification of design assumptions, initial project budget, schedule, and program goals and objectives. A comprehensive peer review and constructability review of the preliminary documents will be conducted prior to their submittal, and as a supplemental check to HDR's QA/QC review.

Following the submittal, and as a key element of the review and validation of the design parameters of the project, a complete walk through of the project site with the plans will be organized with the airport staff and design team, and others that may have an interest in a specific portion of the work (i.e. utilities, FAA trunk lines, airfield maintenance), etc. This walk through is intended to provide a verification of the existing conditions as defined by surveys and shown on the plans, identify any missing items, identify a need for additional investigations as may be warranted, and otherwise ensure that the project moving forward into final design achieves the complete design intent of the overall project, including any final requirements identified by the Airport.

PHASE IV - FINAL DESIGN PHASE: This phase of the project completes the design and details supporting the decision making process for specific work elements of the project. Construction plans will be prepared meeting FAA, local and affected agency standards, specifications, and other applicable requirements and guidelines.

As with the preliminary design phase, a peer review and constructability review of the final construction documents prior to their submittal will be conducted as a supplemental check to HDR's QA/QC review. The final Engineer's Design Report will be prepared documenting all design rationale and findings, including any Modifications to Standards, as well as justifications and pertinent design calculations for the various elements of the project.

The final construction cost estimate with detailed items and quantities will be included in the Engineer's Report. To help assure quality control of materials and the constructed project a Construction Management Plan will be prepared for FXE, the FAA and field construction staff. This CMP will be incorporated as a removable appendix to the Engineer's Report.

State-of-the-practice construction criteria will be incorporated in the technical specifications in conjunction with FAA guidelines contained in FAA AC 150/5370-10C, Standards for Specifying Construction of airports, including specific instructions for the quality of all work as well as phased construction schedules. Unit price cost estimates will be predicated on detailed quantities and latest area analysis of bid data.

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PHASE V - BID PHASE: The HDR Team will assist Airport Staff during the bid phase as follows:

- Prepare the notice to bidders for advertising the project;
- Coordinate the distribution of bid documents to firms and agencies requesting them;
- Assist with a Contractor/Bidder outreach program;
- Respond to bidders' questions and prepare addenda, as required;
- Attend and conduct a pre-bid meeting with potential bidders and affected agencies;
- Attend and participate in the bid opening, and review and tabulate bids received;
- Review bids for conformance with bid documents and qualifications of the bidders; and
- Prepare recommendation for awarding the project to the lowest responsive bidder.

PHASE VI - CONSTRUCTION PHASE SERVICES: The continuation of the HDR Team effort will be provided through the Construction Administration and Resident Observation Services of the project at PIE. These services will allow the design professionals to interface with the field staff and contractor to provide additional interpretation of plan or specification requirements. This service is considered a part of the "partnering" approach to the project wherein the design professional and the field construction representatives can work to provide the highest quality project within budget and on schedule. Participation during construction is a corporate requirement of AVCON-designed projects. The following are representative of the many tasks associated with actual field coordination and construction phase services:

- Attend and conduct the pre-construction conference;
- Review, catalog and approve shop drawings, samples and other submissions;
- Make periodic visits to the site to review progress and quality of the work, and provide full-time resident observation services if requested;
- Review contractor's applications for payment and recommend to PIE for processing;
- Provide consultation and advice to PIE staff during construction;
- Attend bi-weekly construction coordination meetings;
- Review change orders as required;
- Participate in construction review to determine partial beneficial occupancy;
- Participate in the final checklist for the acceptance inspection;
- Prepare as-constructed reproducible drawings and AutoCAD files;
- Receive and review written guarantees and other documents; and
- Provide continuous interface with PIE Staff and the FAA regarding the work.

As part of the HDR Team, we have partnered with **AVCON**. AVCON is very familiar and knowledgeable with all requirements of working with Contractors. Throughout the construction process, AVCON consistently provides priority attention to all projects under construction. AVCON routinely provides rapid turnaround of Contractor Submittals, RFI's, Applications for Payment and other features to support the needs of the construction in the field. Further, with a dedicated Owner's Resident Project Representative (RPR) team, AVCON is committed to ensure that the quality and timeliness of the constructed project are complete and consistent with the Contract Requirements previously approved by the Owner and included in the performance criteria set forth on the plans and in the project manual.

AVCON is also very well-versed at all applications of unit price construction at airports, including limited but anticipated conservancy in estimated quantities; very specific details on methods of measurement and basis of payment for each and every item of construction throughout the documents; attention to all permitting and regulatory compliance issues and inter-governmental agreements; and national, state

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and local codes, policies and procedures as they relate to all aspects of the proposed project such as FAA, FDOT, UL, NEPA, ASTM, etc. With AVCON, you can be assured of immediate, complete, and continuous interface with the Contractor.

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Administration Building Expansion

As part of the HDR Team, we have partnered with **ACAI Associates** to lead the Administration Building Expansion. ACAI is recognized for design excellence and dedication to client service.

ACAI believes that excellence in architecture is the physical manifestation of our clients' ideas and goals. This philosophy – combined with strong technical expertise and proficient budget control at all stages through project completion – allows ACAI to produce successful projects and earn the respect of our clients, resulting in many long-term professional relationships and referrals in both the public and private sectors.

As evidence, ACAI has a ten-year working relationship with FXE during which time we have been part of the General Consulting team for multiple phase projects for the FXE Administration Complex and the Emergency Operations Center as well as having provided architectural services under a General Engineering Aviation Consultant Services contract. Most recently, ACAI provided pre-design programming services for interior and exterior renovation of the FXE Administration Building with the intent of achieving LEED certification.

Through our experience working on these projects, ACAI is very familiar with the City's needs, goals and objectives for expansion of its Administration Building and understands that resourcefulness, innovative design, fiscal and environmental responsibility plus consistent communication and collaboration amongst owner, building users and the design team ensures a winning project.

Overall Approach and Methodology

When working on projects ACAI follows three key principles to ensure good design:

- First, the project must be designed to meet the User's needs. Understanding the occupant's needs and how these needs affect physical design is critical in the design process. As Architects it is our responsibility to balance user needs with programming flexibility to allow for changes in use over time.
- Secondly, good design understands and responds to context and imagery and positively impacts the project and users. We believe good design will energize support for the project and gives visitors and staff a place for which they can be proud. ACAI's QA/QC Program is part of the Firm's Total Quality Management approach to its projects and entails the review of documents at pre-established phases of development to ensure that all plans and documents conform to Client Standards and Criteria, and are void of errors and omissions, within the bounds of Standard of Care established for the industry.
- Lastly, the project must be built to last. As members of the US Green Building Council and a LEED certified team, ACAI is committed to "green design", also referred to as Leadership in Environmental & Energy Design.

ACAI's Building Information Modeling (BIM) experience is extensive as we are leaders in the industry. ACAI uses BIM during design to explore and help coordinate a project's key physical and functional characteristics digitally before it's built, greatly reducing conflicts and streamlining the design and construction process. Our experienced staff members are all trained in the latest software and hold bachelor's degrees or licenses in the design and construction industry. With teams including architects, engineers, general contractors and VDC modelers in-house we create more sophisticated, professional models and work together to identify clashes, conflicts and design problems virtually in pre-design and construction before they become problems and costs in the field. We also work with Clients to develop

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and implement BIM Standards which enables Owners to leverage the benefits of BIM for Facilities Management through Construction Operations Building Information Exchange (COBie).

ACAI provided Planning and Design services for Broward County Aviation Department (BCAD) that included development of Design Guidelines for the Terminal Areas of Fort Lauderdale – Hollywood International Airport (FLL) as well as full service design and construction administration for the BCAD Air Cargo Facility for airside and landside operations. We have been engaged by BCAD to create the FLL BIM Standards and BIM Execution Plan for implementation at their facilities. Our involvement in these efforts creates an opportunity to take and adapt the BIM standards that were developed for FLL for application at FXE in line with this project's scope and objectives.

Building Information Modeling (BIM) Experience

Our BIM experience at ACAI and ACAI Technologies is extensive and includes work as designers, modelers, model managers and BIM Coordinators. Starting in 2008, ACAI began offering third party Virtual Design and Construction services (VDC) including design, drawing and support services for Architecture, Engineering and Construction Firms including the trade and sub markets, as well as Owners, Developers and Building Product Manufacturers and ACAI Technologies was born. Our workable VDC solutions optimize how projects flow and improve communication and collaboration enhancing overall productivity for Owners and the entire design team.

ACAI uses BIM during design to explore and help coordinate a project's key physical and functional characteristics digitally before it's built, greatly reducing conflicts and streamlining the design and construction process. Our experienced staff members

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are all trained in the latest software and hold bachelor's degrees or licenses in the design and construction industry. With teams including architects, engineers, general contractors and VDC modelers in-house we create more sophisticated, professional models and work together to identify clashes, conflicts and design problems virtually in pre-design and construction before they become problems and costs in the field.

Critical to this process is an experienced staff. Our experienced staff members are all trained in the latest software and hold bachelor's degrees or licenses in the design and construction industry. In addition, two of our staff members are the first in Florida to have earned their CM-BIM certifications which is the first BIM certification program. In addition to being certified, our staff is approved as instructors for all four courses. The ACAI and ACAI Technologies Team is well-versed in REVIT Architecture, AutoCAD Architecture, REVIT MEP, REVIT Structures, NAVISWORKS, Archicad, Rhino and Microstation. We work within a multitude of BIM Platforms and work with the team to ensure interoperability with the tools being used on a project. As the National Sponsor of the Construction Operations Building Information Exchange (COBie) Educational programs with the bSa, ACAI can work with BIM from design to operations and gives priority to information planning and data management for useful operations. We understand the

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importance of open BIM and promote interoperability and support IFC, COBie, SPie, and the buildingSMART data dictionary development (bsDD). At ACAI, we are constantly examining the structure of the "Information" within the BIM model to ensure its organization, usefulness and eventual migration to Facilities Management. The ACAI Team focuses on the Life Cycle of the BIM model in order to bring maximum client value.

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Airfield Lighting Rehabilitation

Along with all elements of the airfield paving described above, the projects will also specify a substantial makeover of the airfield lighting system. All work will be conducted in accordance with the latest FAA design guidelines and Advisory Circulars. There are a number of important features that will be upgraded as part of the overall work so that conformance with design standards will be achieved in all areas. The following is a preliminary outline of the proposed electrical work required to upgrade the runway:

- Replace the REIL units on both runways and upgrade electrical with a new in-duct homerun feeder;
- Replace the Supplemental Wind Cones with LED units. LED units are more efficient and reliable, having eliminated the troublesome Brightness Power Adapter;
- Replace Runway or Taxiway Edge Lights with properly color coded MIRL (or HIRL) (or MITL) with new in-duct homerun feeder. In-pavement fixture shall be used at taxiway/runway crossings. The CCR shall be replaced and re-fed;
- Consider installation of Semi-flush fixtures to ensure proper spacing if HIRL is selected;
- Replace all older signage (5 years old or as directed by the Airport) and upgrade panels as necessary in the Runway Safety areas to come into full compliance. Some of the current mandatory signs do not have the required black outline around white letters. Review reliability of individual signs (including parts availability) with FXE maintenance, and consider stand-alone sign circuits to eliminate printed circuit card technology currently used to maintain sign brightness and variable edge light brightness steps;
- Review / Replace existing L-821 ALCS to eliminate spare parts and service concerns from current vendor and renew all alarm functions, reuse existing fiber optic cables, and consider mimic panels in ATCT Cab, Vault and possibly the FSS; (this may already be part of the new ATCT program)
- Revalidate re-use of all duct crossings under the runway, and ensure separation of high and low voltage wiring;
- Specific attention to be provided for taxiway connectors to runways. If the radii are increased due to ARC-III changes, it is recommended that the L-861T fixtures and transformers be turned over to maintenance as parts;
- Taxiway edge lights that are LED and under five years old shall be maintained. The design documents will specify protection during pavement work. The design will also check for a need to adjust base can elevations for any grade changes during paving;
- Replace the PAPI units at both ends with updated siting and new in-duct homerun cables (not specifically mentioned in the RFQ but by FXE maintenance staff);
- Verification of condition and reusability of existing ductwork under the pavement. New ducts may be installed with directional drilling;
- The HDR Team will propose a series of numbered conductors to separate circuits in common ducts or manholes; and
- The HDR Team will also modify or relocate or otherwise protect FAA and other utility cables located on the site in separate raceway systems.



Pedestrian Bike Path

The addition of a pedestrian bike path at FXE is a great opportunity to continue strengthening the outstanding relationship with surrounding neighborhoods and airport users while connecting FXE to the regional multi-modal transportation network and local businesses. This will also continue building upon the initiative of connecting the Uptown Fort Lauderdale with the Downtown Ft. Lauderdale Urban Core. During the planning and design phases for a pedestrian bike path near an active airport, there are a number of specific components that the HDR Team will consider, including the following:

- Environmental Impacts The goal of any project is to minimize the impacts to the environmental community, which includes not only the natural features but physical, social and economic features. This is especially true when implementing pedestrian or bicycle projects such as a multi-use trail. The natural state of the adjacent lands can be a main attractor for people to use a particular facility. HDR will identify locations which may have potential environmental impacts. Mitigation or avoidance alternatives will be recommended to aid in the completion of the project.
- Permitting HDR has significant experience in obtaining the required environmental permitting for all levels of transportation projects, and fully understands the requirements of trail projects. HDR has also completed several final sidewalk design projects that have not required any environmental permitting. The state environmental agencies recognize the benefits of pedestrian accommodations. Unless there are major impacts to sensitive areas, environmental permitting is typically not required. However, if construction is within state owned right-of-way, additional permits may need to be obtained. FDOT District Four utilizes a special use permit for the construction / connection of pedestrian facilities to the state system. This is a simplified permitting process due to the limited impacts to the roadway network.
- Landscaping HDR will coordinate with the City and any adjacent municipalities (if applicable) to determine the vision for the improvements to determine the magnitude and types of appropriate landscaping for each project. We will also consider the existing landscaping along the trail routes and work to minimize the impacts. HDR understands that a significant commitment to landscaping is required in order to make a trail a great place and the City desires to build a network of great trails. We also understand the maintenance cost associated with various types of landscaping and would work with the City to provide a cost effective and maintenance friendly landscaping plan.
- Drainage. HDR understands the importance of the effects of stormwater drainage on both roadway and pedestrian users. The construction of trails, especially for open drainage systems, could reduce the capacity of swales/ditches. Additionally, flooding or ponding on a roadway or trail can present a safety hazard. Through field visits and discussions with maintenance personnel, HDR will provide recommendations for the proposed improvements which will minimize impacts to the existing drainage patterns.
- Utility Impacts/Coordination. In some cases, utility or light poles may need to be relocated in order to maximize space for a trail corridor without causing width constraints. HDR will coordinate with the appropriate utility company to facilitate these discussions and determine the feasibility of such changes. We will also consider methods to avoid impacting the utilities, such as the potential to construct a narrower trail parallel to an existing sidewalk.



 Constructability Issues. If a particular trail corridor or area has significant obstacles that will likely impede its constructability, HDR will work with the City to help identify potential alternative solutions or alignments.

Our team will work closely with airport staff, city staff and the community to address all these issues and ensure the path meets all expectations so that it is a community friendly and usable addition to FXE. We will meet with other local airports who have implemented a pedestrian bike path, such as Pompano Beach, to build upon lessons learned so that FXE can set a new standard.

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Master Plan Update

The HDR Team has looked at both the current Airport Layout Plan (ALP) and the 2009 Airport Master Plan. These documents reinforce the knowledge that the Airport is very constrained and that its overall mission of supporting corporate aeronautical growth is very critical. Judicious planning must ensure that along with other development objectives, the Airport's acreage must also be preserved to meet future aeronautical needs.

To ensure a complete understanding of the protected acreage for aeronautical use, we initially looked at the status of the existing Runway Protection Zones (RPZ) for Runway 8/26 and Runway 13-31. Recently, the FAA issued a memorandum stating that once a runway came under any sort of construction, including periodic maintenance that it would no longer allow the RPZ's to have public roadways traversing through them, subject to detailed site studies. This means that runways across the country would either have to be shortened to allow the RPZs to be accommodated on airport property, or the roadways themselves would either have to be re-routed, closed, or suppressed. None of these "solutions" are acceptable at most airports across the country, including Fort Lauderdale Executive. Currently, the Runway 8 RPZ crosses NW 31st Avenue and NW 56th Street. The RPZ for Runway 26 crosses NW 10th Avenue. The RPZ for Runway 31 crosses NW 15th Avenue, NW 52nd Street, and Striker Blvd. As this issue affects a very large number of the airports in the United States and remains under injunction, it is advised that the city consider its contingency plans for a number of outcomes that could include "grandfathering" existing configurations as opposed to any alternative mitigation measures up to and including full compliance. The HDR Team stands ready to assist the City to evaluate the options.

Notwithstanding the above, the existing length of 6,002 feet appears adequate to accommodate the existing and planned future aircraft at the Airport. Runway 8-26 is designed to be able to accommodate aircraft with approach speeds up to but not including 166 knots and wingspans of up to but not including 118 feet in width. Such aircraft could include the Gulfstream G650, one of the largest corporate aircraft. Forecasts indicate that the primary runway will be able to accommodate these types of aircraft for at least the next 20 years. Based on these types of aircraft, the Federal Aviation Administration (FAA) has developed airfield design standards. One of these indicates that the separation distance between Runway 8/26 and the full-length parallel taxiway, Taxiway A should be 400 feet, while it currently measures 340 feet centerline to centerline. The Airport applied for and received a modification to the standard to allow Taxiway A to remain in its current configuration.

Despite the adequate runway length available at the airport, it is our understanding that the runway pavement weight bearing capacity at the Airport is statutorily restricted to 30,000 pounds for a single-wheel landing and 60,000 pounds for a dual-wheel loading. The design aircraft, the Gulfstream G550 has a Maximum Take-off Weight of 91,000 pounds. Of this, approximately 35,000 pounds is attributable to fuel. Conceivably, if the aircraft were to land with less than a full load of fuel, the runway would still accommodate the aircraft. Realistically, aircraft of over 30,000 pounds single wheel and over 60,000 pounds double wheel will continue to land at the Airport. The pavement will not fail catastrophically. However, it will deteriorate at an accelerated rate and continual observation and monitoring of the pavement is necessary. Discussions among the parties to the statutory limitations should be explored with the objective to upgrade the primary runway and parallel taxiway pavement strengths based on the other limiting factors. It should be noted that since this legislation was originally enacted, aircraft have continually become quieter and the larger aircraft are both quieter and generally represent a much higher level of operator proficiency than previous generation aircraft. The only present restriction on the pavement is that it is under strength for the aircraft that routinely operate at FXE.

An additional planning opportunity can be enhanced noise compatibility around the airport. FXE has long been a proponent of being a good neighbor to those communities and residences that surround the

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Airport, most notably the City of Tamarac. It has an extensive Noise Abatement Program and continuously seeks new and innovative ways to make the community a better place to live. A future consideration to be explored could be additional or enhanced sound walls between the airport/City property and the City of Tamarac line south of NW 55th Court. An FDOT style sound wall could separate the residential community of Tamarac Lakes from the airport and industrial development immediately east and north both from a noise and a visual perspective.

Based on a preliminary review of the remainder of the airport properties, it is essential that the City and Airport consider appropriate planning to preserve and enhance the remaining development site on and surrounding the airport. The development around the peripheral of the airport is a major economic generator for the airport, and each available portion of development land should be continually evaluated for potential upgrades based on the prospective tenants and the maximization of income from these properties to best support the airport's financial needs. These future land uses should also include a program to upgrade the visual impacts of the airport as a part of each generational development program. Master signage guidelines, landscaping requirements and other features can be brought into the overall development scheme for the airport for years to come.

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Design Approach

We see that a main goal for FXE under this contract is to expeditiously complete project design while providing a quality product that leads to minimal requests for additional information during the bidding and construction phases. The HDR Team will implement the following design deliverable submittals to achieve adequate coordination between FXE staff, project stake holders and our project team can be performed and that all required permits are obtained prior to beginning the bidding phase. If due to schedule constraint the design needs to be expedited our team will be flexible on this approach understanding again that one size does not fit all.

Preliminary Design (30% Design Documents)

The primary goals of the schematic design phase are to develop site investigation plans, meet with project stakeholders and present schematic design alternatives. Additionally, for pavement projects, various pavement rehabilitation alternatives will be developed and presented in a Project Alternatives Report for the Airport staff to review and determine which of the recommended alternatives it wishes to proceed with. The final project meeting of the Preliminary Design Phase will be the 30% Design Review Meeting. Major changes to the design scope after this stage can typically have the potential to severely impact the project schedule and budget. This phase will culminate in the preparation of a comprehensive design technical memorandum to be presented to the Airport staff. This memorandum will serve as the detailed and specific basis for all further design. In addition, a preliminary construction cost estimate will be prepared to determine relative conformance with the anticipated project budget.

Design Development (60% Design Documents)

The primary goal of the Design Development phase are to demonstrate our Team's understanding of the design requirements, incorporate information gathered from the site investigation and perform an initial budget and schedule validation for the project. During this design phase, key coordination meetings will be scheduled and facilitated by the TEAM with all required regulatory agencies. The 60% Design Documents will provide sufficient detail to be utilized for initial permit submittals to each agency so that required revisions can be included as the design progresses.

Our expertise in cost estimating brings value to FXE through establishing a reliable budget at project start for proper financial planning, to allow FXE to maximize their funding and maintain a stable Capital Program.

Permit Documents (90% Design Documents)

The primary goal of this design phase will be to advanced the design based on comments generated from project stakeholders and regulatory agencies after review of the 60% Design Submittal. During this phase all details necessary to clearly provide resolution to comments provided and to support decisions reached regarding specific aspects of work to be completed will be incorporated. Constructability reviews will also be performed at this time to ensure all required information as it pertains to base maps and construction control are complete and clear. The 90% Design Documents will be re-submitted to each regulatory agency in order to obtain final permit approvals.

Final Contract Documents (100% Design Documents)

During this phase the design documents will be further refined to ensure that the overall design intent is clearly depicted and described to potential bidders. The final bid item list will be created, reviewed for conformance with Technical Specification and Contract Documents and provided to the City of Ft.



Lauderdale Purchasing staff for review and approval. The HDR Team will continue to work closely with all project stakeholders during this phase to ensure that all administrative and technical requirements are complete so that the bidding phase can be completed in an efficient and timely manner.

Bidding Documents

In preparation of the final bidding documents, the HDR Team will work closely with FXE and City's Purchasing Staff to ensure a seamless integration of any City provided "front end" documentation which may include the appropriate Division 1 documents, Contract and all other required City legal documents. HDR will review and provide suggested revisions to these documents to ensure that there are no conflicts with other contract documents. The HDR Team will also ensure that required permit documentation and any other supporting information (i.e. site investigation reports) are provided to Purchasing for inclusion into the bidding documents.

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Project Management Approach

Our Approach is geared towards the successful implementation and completion of tasks that are anticipated to be requested by FXE. This begins with the development of a Project Management Plan (PMP) which is comprised of an Operations Plan, Communications Plan, Production Plan, and QA/QC Plan and is based on early identification and resolution of project issues and meeting established goals.

HDR'S FOUR-PART PROJECT MANAGEMENT PLAN									
OPERATIONS PLAN	COMMUNICATIONS PLAN	PRODUCTION PLAN	QA/QC PLAN						
Scope, budget, schedule controls; invoicing and project reporting; document control; subconsultant management	Roles and responsibilities; web- based management tools	Staffing; design; CADD standards; reports; and studies	Independent reviews; structured, continuous process						

Operations Plan

The Operations Plan integrates tracking and monitoring of the approved scope, budget, and project schedules for each Task Order and defines requirements for invoicing, document control, and subconsultant management. An Action Item Checklist is used as a management tool to track the project Team's responsibilities and due dates

Task leaders monitor the progress of Team members on a regular basis. Completion is tracked and compared to the baseline schedule; and corrective actions are taken to manage the schedule requirements, when the need arises.

Communication Plan

The communication plan identifies the relationship of all key project stakeholders, and establishes the protocol for Team communications and documentation. Typically, a primary and secondary point of contact will be established for both the client and HDR, and all communications will be via that single conduit, thus eliminating duplicitous or contradictory communications and directives and ensuring that all decision documentation is collected, stored, and acted upon as appropriate.

Production Plan

The production plan identifies the task scope, task staffing plan, CADD standards (if appropriate), project schedule and critical path, and any other key assumptions, concerns, and risks to be addressed. The staffing plan assigns appropriate personnel who are matched to the unique requirements of each Task Order, utilizing HDR's work planning tools to manage staff workload and availability, as discussed above. For more complex projects, the production plan includes, or incorporates by reference, a basis of design document. The basis of design provides an accounting of the appropriate design codes, methodology, and driving design assumptions and conclusions as a record of project development. Typically, where utilized, the basis for design will be developed as a stand alone deliverable for client review, comment, and approval, and will serve as a living document for the duration of the design phase of the project.

Quality Assurance/Quality Control (QA/QC) Plan

HDR's management is committed to excellence through the promotion of quality-oriented processes that continually improve the service we provide to clients. HDR staff is knowledgeable regarding policies and procedures and client and industry design standards, as well as Federal, State, City, and County

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requirements. All deliverables will be submitted after undergoing thorough quality control reviews by appropriate engineering staff.

As part of our Project Management Plan, our Team submits a detailed Quality Control and Quality Assurance (QC/QA) Plan that is tailored to meet client and project requirements, and the approved plan will be documented in the Project Guide. The HDR QC/QA Team will perform structured, independent Quality Control Reviews of the work at each milestone. The QC/QA Plan includes the following key components:



- Annotated or highlighted originals of the milestone comments will be returned with the disposition of all comments. A copy of the marked–up quality control file check set(s), as well as written verification of QC reviews and QA inspection reports, are submitted to the Project Manager. QC/QA audits are performed and these also include verification that subconsultants are adhering to Project QC/QA plans.
- HDR's standard QC/QA Plan includes extensive use of standard "Checklists" for reviews at each milestone, called the "Intra-Design Review" and "Inter-Design Review." An "Intra-Design Review" is performed by senior professionals in the same discipline, and an "Inter-Design Review" is performed by senior professionals in different disciplines to identify and resolve potential conflicts among disciplines.



 The QC/QA Review also includes drafting and electronic drawing files to check that our Team's drafting services and drawings are consistent with the client's CADD requirements, as applicable.



Scheduling Methodology

Project success will be measured by the HDR Team's ability to comply with schedule and budget considerations for each project. The Operations Plan integrates tracking and monitoring of the approved scope, budget, and project schedule for each Task Order and defines requirements for invoicing, document control, and subconsultant management. An Action Item Checklist is used as a management tool to track the project Team's responsibilities and due dates.

Work Breakdown Structure (WBS) is developed to manage budget and schedule, identifying individual tasks, each of which is tracked by the Project Manager working directly with the task manager to insure timely and on-time budget completion of individual project parts.

Microsoft Project or Primavera software will be used to establish the master project schedule in accordance with the WBS so that cost, schedule, and responsibility can be integrated into each work element for budgeting and monitoring purposes. Detailed Task Breakdowns, including hours per task, provide a straightforward means of tracking the progress of the total scope and budget as well as the budget for each individual task, and also provide essential information necessary for determining the project's critical path and for reporting project status.

Below is a sample baseline schedule which we will develop in more detail when we meet with FXE personnel and stakeholders to identify and prioritize activities in order to further define the overall project objectives, review existing site data, and perform a general review of the entire project site.

	MONTHS											
	1	2	3	4	5	6	7	8	9	10	11	12
 Survey 												
 Environmental Assessment 												
 Utility Locates 												
 30% - Demolition and Environmental Remediation Plans, Utility 												
Relocation Plans, Civil Design Plans, Architectural Building Plans,												
Technical Specifications												
 30% QA/QC Review 												
 Coordination w/Utility Providers 												
60% - Demolition and Environmental Remediation Plans, Utility												
Relocation Plans, Civil Design Plans, Architectural Building Plans,												
Technical Specifications												
 60% QA/QC Review 												
 Building Code Services - Dry Run 												
 Utility Permit Submittals (BCWWS, Ft. Lauderdale, BCDOH, FDEP) 												
 90% - Demolition and Environmental Remediation Plans, Utility 												
Relocation Plans, Civil Design Plans, Architectural Building Plans,												
Technical Specifications												
90% QA/QC Review												
 Building Code Services - Dry Run Approval 												
 Utility Permit Approvals (BCWWS, Ft. Lauderdale, BCDOH, FDEP) 												
100% - Demolition and Environmental Remediation Plans, Utility												
Relocation Plans, Civil Design Plans, Architectural Building Plans,												
Technical Specifications												
100% QA/QC Review												
 Provide Bid Documents to Purchasing 												
 Issued for Bid Documents 												

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Task leaders monitor the progress of Team members on a regular basis including daily updates on hours charged and weekly updates on overall project cost. Completion is tracked and compared to the baseline schedule; and corrective actions are taken to manage the schedule requirements, when the need arises.

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Current Workload

Given the size of our firm, we have managed literally thousands of active projects within the past five (5) years. As we are proposing this project to be managed out of our Ft. Lauderdale and other South Florida offices, the following section will focus on our active and future projects in the South Florida area.

During the past (5) years, our South Florida practice has managed a diverse group of projects from various industries including, but not limited to Aviation, Roadway, Water Resources, Architecture, and Transportation Planning. Our clients include Broward County Aviation Department, Broward County Highways and Traffic Department, Florida Department of Transportation, Miami-Dade County, and The South Florida Regional Transit Authority. As such, our South Florida Offices have multiple projects that occur concurrently.

Under the direction of the Project Manager, we typically assign Task Leaders to manage individual Work Authorizations. These Task Leaders are assigned based on their ability to manage the technical aspects and become the HDR primary manager for the project. Based on the size, complexity and schedule – task leaders may be assigned multiple Work Authorizations working concurrently. The Task Leaders have the support of the Project Manager and are assigned resources necessary to efficiently and responsibly advance the project. In the rare case that an issue was to develop with assigned staff, HDR has stepped in quickly to make the personnel adjustments necessary to get the project back on track and insure the Client that we are dedicated to serve and meet their expectations as a trusted advisor. In the instance that we were to need additional technical support from within HDR engineering, we have a large network of available resources that are able to contribute immediately. If the project support is best served by local resources, HDR has a TEAM of trusted and professional sub-consultants that in addition to our in house staff that are available at a moment's notice. An established history of working together allows for quick adjustments when negotiating additional scope. *Being a large firm allows us to allocate the necessary resources to complete concurrent project(s) in a timely manner while maintaining of high level of quality and customer service that our clients expect.*

Client	Project Name
Broward County Aviation Department	General Engineering Consultant
Broward County Highways and Traffic Department	General Professional Architectural and Engineering Consultant Services
Miami-Dade County-Port Miami	Wharfs Strengthening Program
Florida Department of Transportation District 4	I-75 Managed Lanes Procurement I-95 Phase 3 Corridor Design Consultant District-wide Plans Review
Florida Department of Transportation District 6	General Engineering Consultant District-wide Scoping Reports
South Florida Regional Transportation Authority	General Planning Consultant General Engineering Consultant WAVE Modern Streetcar

Below is a sample list of our active projects for our South Florida Clients:

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Qualifications of the Project Team

HDR has assembled a team of firms that specialize in planning, design and re-construction of Aviation facilities. Collectively this team possesses the full range of expertise needed to address all aspects of the contract. Our proposed project manager, John Neff, PE has worked with every firm on our team in the past on airport and other municipal projects. Each firm will play a specific role on the team and offers unique benefits to this project.

The FXE Team illustrates the primary roles and benefits of each firm on the HDR team, the reason each team member was chosen, and how we complement each other to bring forward the full range of services required for this contract. The HDR Team's aviation engineers have earned a national reputation for quality work and dedicated, multidisciplinary expertise, making us the ideal partner for The City of Ft. Lauderdale and FXE.

HDR Engineering Inc. will provide overall contract administration, project controls and project management. HDR's strong local staff, over 20 in Ft. Lauderdale alone, will become an extension of FXE Staff and will provide expertise in every area that an airport requires.

AVCON is recognized as a leading expert in the design of airfield pavements and airfield lighting systems. FXE will benefit from the expertise and cutting edge thinking that the dedicated professionals at AVCON will bring.

Keith and Associates will provide FXE will unparalleled survey, subsurface utility exploration and construction administration services. Keith & Associates strong local staff with experience providing these services both airside and landside has made them the consultant of choice for HDR.

ACAI Associates is recognized for design excellence and dedication to client service. With a local staff of professionals in the architecture, planning, interior design and construction management industries, the ACAI team will directly aligns itself with FXE's goals. ACAI prides itself in consistently delivering



The FXE Team

services that exceed even the most rigorous of design and construction standards, maintaining high-quality deliverables while meeting completion schedules and cost objectives.

Chen Moore and Associates will provide FXE with local professionals focusing on civil engineering, surface water management, regulatory permitting, landscape architecture, GIS and construction observation services. Founded in 1986 in Ft. Lauderdale, Chen Moore will strive to become FXE's Trusted Advisor and serve as extension of your staff.

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Panther International will support FXE in the pursuit and management of aviation grant funds. Panther's staff, being intimately familiar with JACIP, can provide assistance in populating the JACIP system with the airport's Capital Improvement Plan in a strategic manner in order to maximize both state and federal funding based on their respective priorities. Panther can also suggest and add workflow improvements to the entire grant management lifecycle as well as implement best practices to maximize state and federal funding.

Tierra South Florida is a full service consulting geotechnical and construction material testing engineering firm, which also provides threshold/special inspection and roofing inspection services. Their strong local experience performing geotechnical investigation for major airfield projects is unmatched. Tierra SF will bring this experience and knowledge of local conditions to FXE.

Cherokee Engineers and Contractor's strong local environmental experts will be standing at the ready to provide turnkey engineering and construction solutions to FXE to support infrastructure improvements and environmental compliance. FXE will not only benefit from the invaluable input that Cherokee will provide during the design phase of a project but also from their ability to respond quickly to any environmental issues that may arise during construction minimizing any potential impact to project schedule and budget.

Standard Form 330s for HDR and our subconsultants can be found in the following section which further illustrates our teams past experience and qualifications.

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Project Manager's Experience



John F. Neff, PE brings 40 years of project management experience both national and international. He has successfully managed over 80 aviation projects in South Florida with many of which were located in Broward County. John has experience at FXE in the past on

• 40 years PM experience

- 16 years managing GEC's at airports
- Familiar with FXE on paving and lighting projects
- Active in many professional groups including FAC

pavement and airfield lighting projects as well as owl and turtle studies. John has also completed a number of utility projects for the City of Ft.

Lauderdale including an extensive I&I study for the basins in the area of Andrews and north of Sunrise. He has called Broward County home since 1989 when he was the Chief Engineer for Design/Build of the Broward County Resource Recovery Facilities. During his 25 years in South Florida, he has excelled at bringing together teams of highly qualified professionals to create and manage diverse projects that cover a large range of engineering/planning/construction encountered by full service engineering firms. After successfully managing the last 4 years of the General Engineering Contract at FLL and HWO, he served 4 tours in Afghanistan as the Engineering Site Manager for Northern and Western Afghanistan creating Forward Operating Bases, Major Operation Centers and Airfields. He designed and oversaw the development of three (3) fixed wing and seven (7) rotary wing runways while assigned to the 877th EPBS. He transferred to Hanscom AFB as Engineering Manager before returning to Broward County as a Senior Project Manager in Aviation.

John has dedicated the past year to reviewing the current projects and expectations of staff at FXE. Success is a measure of the HDR TEAM's ability to work in harmony with the Airport to meet and exceed expectations as a trusted advisor with dedicated professionals performing their work in an efficient process and achieving a quality deliverable on schedule. John has a history of excellence in leading teams on projects with a couple to over 20 sub-consultants. John is unquestionably the perfect type of manager for a GEC function at an airport. His extensive project list at both airports and local municipalities along with access to exceptional talent is unequaled in Broward County. He is active in FAC, ASCE, AWWA and FPE and is a member of the Broward County Advisory Board for Individuals with Disabilities. He has experience in the City and has worked with the Federal/State/County Agencies that oversee airports. John was a key member of the team that designed Broward County's Greenways and has over 40 miles of bike path experience. He has also designed overseas facilities for over 100 military rotary wing assets as well as several civilian facilities in South Florida. John also was PM for the design and oversight for the administration and maintenance facilities at HWO and SLCIA. Security, utilities, airspace, pavement analysis and rehabilitation, parking, wayfinding – etc. If it's at an airport – John has likely worked or managed it during his distinguished career.

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Our Deputy Project Manager is **Mr. James A. Kriss, P.E.** Mr. Kriss is a principal and founder of AVCON, INC., and has been serving the airport and construction industry for more than 40 years. As a principal and senior project manager with AVCON, he is responsible

- More than 40 years in airports
- Airport Owner
- Airport Management
- General Contractor
- Airport Pavements
- Airfield Lighting

for technical design issues associated with all aspects of studies, designs and project management tasks for airport and aviation related projects, Mr. Kriss

and AVCON have been involved with over one hundred different clients in the U.S. and abroad over the past 25 years. His experience includes all facets of aviation, pavements, utilities, lighting and NAVAID systems, construction, cost estimating, and project management.

Among his more prominent roles, he has served as Project Manager for a Continuing Planning and/or Civil Engineering Role for the Greater Orlando Aviation Authority, serving Orlando International and Orlando Executive Airports. During more than 25 years of service, his continuing association with the Authority has involved on-call services in support of the Authority Planning and Engineering Staff in the performance of miscellaneous services of every type and requirement. The work involves planning assignments, studies, airfield and roadway pavements, lighting and NAVAIDS, building systems, security and fire alarm enhancements, specialty consulting through various subconsultants, and all related work necessary to prepare and produce bidding documents for a wide array of projects Over two hundred fifty assignments have been completed to date.

Mr. Kriss has been a 28 year member of the Florida Airports Council, 25-year member of the Airport Consultants Council, and a nearly 40-year participant in the Illuminating Engineering Society's Aviation Lighting Committee. He previously served as Deputy Director of Airports for the Tulsa Airport Authority (OK) which provides him additional perspectives of public airport ownership and strategic planning. Further he is an airport owner of a small private airport in upstate New York, where he learned to fly now surpassing 40-years as a commercially-rated pilot. Along with the above, he brings forth his previous experience as a General Contractor to provide commons sense designs, constructability reviews and support throughout the construction phases of his projects. This expertise has assisted the firm and their Clients in monitoring and re-buffing groundless change order claims. He has always sought means to resolve construction issues and changed conditions in the field with the Contractor.

Collectively, his background is firmly rooted in aviation and airports; it is his life's blood. He understands the full spectrum of the owner, pilot, contractor and engineer perspectives, and brings this background to all of his airport projects. One of the trademarks of AVCON and Mr. Kriss is the desire to listen to clients, focusing on a safe work environment with minimal construction impacts on airfield operation, all geared toward quality and responsible airport development. Mr. Kriss is fully committed to bringing this experience and background to all aspects of his involvement at FXE.

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Below is a sample list of projects that highlight our Mr. Neff's and Mr. Kriss' extensive experience in Aviation Planning and Engineering.

	Aviation Planning	Airfield Pavement Design	Airfield Lighting and Signage	FAR Part 77 Evaluation	Construction Management/Services	Stormwater Management	Environmental	NAVAIDS/Facilities	Bidding and Award Support	Architectural Design
BCAD General Engineering Consultant	≁	≁	≁	≁	≁	≁	≁	≁	≁	→
Rehabilitation of 9L/27R at FLL	≁	→	≁		≁	→	≁	→	→	→
Redesign of Terminal 4 Apron/Taxiways at FLL	≯	≁	≁		≁	≁	≁		≁	
General Consultant Services, Okeechobee County Airport	+	+	+	+	+	+	+	+	+	+
Continuing Civil Engineering, Orlando International Airport	≁	≁	≁	*	≁	}	+	}	}	+

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References

References, Full Description of Work, and Project Details for our projects are included on our Standard Form 330s included in this proposal. The below table provides a few key projects which we would like to highlight due to the similarities between those projects specifically listed in this Request for Qualifications.

Project	Description	Reference
Broward County Aviation Department General Engineering Consultant Services Construction Cost: \$100M (est.) Completed: Ongoing	HDR is one of three firms currently serving the Broward County Aviation Department (BCAD) as its General Engineering Consultant. Since being awarded the contract in 2009, the HDR team has been assigned over 30 task orders totaling over \$11M in fees. These projects have been very diverse in scope and size, and have included design, studies and investigations on both the airside and landside. HDR has worked closely with the FAA as well as numerous state and local regulatory and resource agencies having jurisdiction over the BCAD aviation facilities.	Marc Gambrill Broward County Aviation Department 954-259-2343
Greater Orlando Aviation Authority Transportation Engineering Consultant Services Construction Cost: N/A Completed: Ongoing	HDR has served the GOAA since 1995 as the primary Transportation Planning Consultant. During the past Thirteen (13) years and two (2) General Services contracts, HDR has served as an extension of staff, addressing on-site and off- site transportation issues, working with other GOAA consultants, and providing coordination among the numerous local governments and agencies that participate in their decision-making process.	Brad Friel, AICP Greater Orlando Aviation Authority 407-825-3139
FLL Terminal 4 Apron Civil Works Construction Cost: \$40M (est.) Completed: Ongoing	The Terminal 4 (T-4) Apron Civil Works project is part of the overall Airport Expansion Program (AEP) currently underway at the Fort	Marc Gambril Broward County Aviation Department 954-259-2343

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	Lauderdale-Hollywood International Airport. This project will modify the existing airport terminal utility infrastructure and required to facilitate the Terminal 4 Gate Replacement Project. The project will require the rehabilitation of existing Taxilane Tango and the existing Terminal 4 Apron.	
Greater Orlando Aviation Authority, Continuing Civil Engineering Consultant Construction Cost: \$200M (est.) Completed: Ongoing	Over the past 24 years, AVCON has provided continuing services to Orlando International Airport and Orlando Executive airport on over 300 different project tasks. These have ranged from minor terminal and support facility engineering to major airfield improvements and terminal renovations.	Mark Birkebak, AIA Greater Orlando Aviation Authority 407-825-4058
Zephyrhills Municipal Airport Construction Cost: \$4.7M (est.) Completed: Ongoing	AVCON is presently serving as General Consultant for Zephyrhills Municipal Airport. Among a variety of recent projects, AVCON has just completed an Airport Layout Plan Update and is currently in construction on the Rehabilitation of Runway 4-22, the airport's primary runway. This work includes complete in- place recycling, new P-401 SuperPave asphalt, and all new edge lighting systems, signs and PAPI's.	Mike Handrahan City of Zephyrhills 813-780-0030



Minority/Women (M/WBE) Participation

HDR is committed to achieving the M/WBE procurement goals established for each project awarded under this contract. We understand the desire for this goal to be no less than 10% for each individual project and have built a team which will be more than capable of meeting the established goals. HDR has a strong relationship with each of the M/WBE firms which we have partnered with for this contract and would select these firms as partners regardless of participation goals. We have the upmost respect and confidence in their ability to deliver any task requested. To show the breadth of services that our partner firms are available to provide please refer to the below chart.

AVCON – MBE/DBE will be providing Airfield Pavement Design, Airfield Lighting and Airport Master Planning

ACAI – MBE, DBE will serve as the lead architect for the expansion of the Administration Building

Keith & Associates – MBE, WBE, DBE will provide all site survey, obstruction surveys, resident project representatives and underground utility locates.

Tierra SF – MBE, DBE will perform all geotechnical site investigations and provide Quality Assurance and Materials Testing during construction.

Cherokee- MBE, DBE will be available to consult on any environmental concerns and on-call for remediation activities as required.

As you can see, with abilities of each of these firms, the HDR team will have no issues achieving any goals that may be set during the life of this contract. All of these firms are also certified DBE firms in the event that any FAA Grant requirements need to be achieved during design or construction.

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Sample Insurance

ACORD CER	ΓIF	IC	ATE OF LIA	BIL		SURA	NCE _{6/1/2014}	DATE (MM/	013
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Joint Ventures

Not Applicable

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Subconsultants

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ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

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	C. PROPOSED TEAM										
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b.						Ft. Lau	derdale, FL 33301				
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				Cherokee Enterprises, Inc.		14474	Commerce Way		Environmental Services		
h			✓		CE	Miami	Lakes, FL 33016				
									EXHIBIT 3		

D. ORGANIZATIONAL CHART OF PROPOSED TEAM

AUTHORIZED FOR LOCAL REPRODUCTION MANDATORY USE DATE OF FORM 6/2004 ✓ (Attached)

STANDARD FORM 330 (6/2004) PAGE 1



Environmental Assessment and Remediation Jeff Northrup, PG⁷ Amanuel Worku, PE⁷

Public Involvement Will Suero, PE¹ Joshua Salazar, PE¹

Regulatory Permitting Jennifer Smith, PE⁵ Abbie Wilson, PE¹

- 6 PantherInternational
- 7 Cherokee
- 8 Tierra SF

CONSTRUCTION **ADMINISTRATION** James Theile³

Construction Admin - Civil James Theile³ Rit Ky, PE¹

Construction Admin - Facilities Rit Ky, PE¹

> Resident **Project Representatives** Alex Lazowick³ Rit Ky, PE¹ Rocky Dovicji²



	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT								
10.11	()	Complete one Section	E for each k	ey person.)					
12. N	AME	13. ROLE IN THIS CONTR	RACT		14. Y				
Johi	n Neff, PE	Project Manager			23	3			
15. FI	RM NAME AND LOCATION (City and State)					-			
HDF	HDR Engineering, Inc.(Miami Lakes, Florida)								
16. EI	DUCATION (Degree and Specialization)		17. CURREN	T PROFESSIO	NAL REGISTRATIO	N (State and Discipline)			
BS,	Civil Engineering		Profession	al Engineer	, Florida, Civil				
18. O	8. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)								
		19. RELEVAN	IT PROJECT	rs					
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	Rehabilitation of the North Runway and EMAS at Fort Laude			PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)			
	Hollywood International Airport, Ft. L	Lauderdale, FL			2004	2004			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if p	roject performed v	vith current firm			
а.	Project Manager. Served in a number of ro	oles from design, plannin	g, constructio	n administra	tion, and final ana	lysis of the completed project			
	for certification and Final Acceptance. The a significant inventory of lessons learned	e project was completed by dissecting all phase	with minimal s of design a	Change Ord	ion to evaluate w	the original budget. Created there procedures or directives			
	impacted quality. Oversaw installation of	one of the original EM/	AS systems us	sed at a com	mercial airport. H	lelped to minimize impacts to			
	the air carriers throughout the duration of	the construction effort i	n the midst of	f an operatio	nal movement ar	ea. Was the key staff position			
-	that provided continuity from planning through Final Acceptance.								
(1) TITLE AND LOCATION (City and State)					(2) YEAR (COMPLETED			
	Terminal 4 Apron Design at Fort Laude	national	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)				
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	between two extensive ongoing reconstruc	ction projects (Terminal	and the new	South Runw	ay) requiring clos	be coordination and flexibility.			
	The project involves precise planning and	l phasing to allow recons	struction while	e maintainin	g operational gate	es for air carriers. Many years			
	schedule.	a understanding the sco	pe and mine	suratery assu	ining a leadershi	p role with no impact to the			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	Airfield Electrical Improvements, Ft. La	auderdale Internationa	l Airport,	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)			
	Ft. Lauderdale International Airport, F	t. Lauderdale, FL			2007	2007			
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if pr	oject performed w	ith current firm			
	Fort Lauderdale-Hollywood International	Airport - Resident Pro	ject Engineer	r for replacement of aged airfield lighting circuitry. Work					
	conduit and light fixtures. Responsible for coordination with BCAD operations regarding closing airside areas.								
			•						
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	Taxilane Tango and Apron Rehabilitation	on, Ft. Lauderdale Inte	rnational	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)			
	Airport, Ft. Lauderdale International A	irport, Ft. Lauderdale	e, FL		2007	2007			
d	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE	: 	Check if pr	oject performed w	ith current firm			
u.	Fort Lauderdale-Hollywood International extensive planning and flexibility to suppo	Airport - Resident Proje	ect Engineer f er needs Proje	for the designed to the designed to the designed by the design of the de	n/reconstruction of pleted without de	of the inner taxilane requiring lays for the tenants and a half			
	million dollars under the projected \$7 milli	ion dollar budget.	1 needs. 110je	cet was comj	pieted without de	ays for the tenants and a num			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	Task 1 West Side Redevelopment, Fort Lauderdale-Hollywood			PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)			
	International Airport, Ft. Lauderdale, F	FL			2007	2007			
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if project performed with current firm					
	Developed final civil plans and obtained	permits for the west sid	le redevelopm	nent of the a	irport including r	roads, drainage, water, sewer,			
	rAA, power and communication duct bar new roadway. Provided post design service	es throughout construction	o role and red on. The project	esigned the tincluded F.	AA work beneath	the western EMAS on 9L			
1		5	1						

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT							
		Complete one Section	E for each k	ey person.)				
12. N/	AME	13. ROLE IN THIS CONTR	RACT		14. Y			
Time	othy Fish, PE	Aviation Planning Le	ad		A. TOTAL 11	B. WITH CORRENT FIRM		
15. FI	RM NAME AND LOCATION (City and State)				11	5		
HDR	Engineering, Inc.(Fort Lauderdale, Florida	<i>a</i>)						
16. EI	DUCATION (Degree and Specialization)		17. CURREN	r professio	NAL REGISTRATIO	N (State and Discipline)		
BS, C	Civil / Environmental Engineering		Professional	Engineer, F	lorida			
18. O	THER PROFESSIONAL QUALIFICATIONS (Public	ations, Organizations, Traini	ng, Awards, etc.)				
Ame	rican Society of Civil Engineers (ASCE), Bi	roward County Branch, S	Secretary, 201	1-2012, Trea	surer, 2010-2011			
		19. RELEVAN	T PROJECT	S				
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED		
	Broward County Aviation Department	(BCAD), Fort	~	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)		
	Lauderdale/Hollywood International Ai Works, Broward County, FL	rport Terminal 4 Apro	n Civil	0	ngoing	NA		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	I with current firm		
a.	a. Project Engineer. With Fish served as project engineer for the replacement and expansion of the existing Terminal 4 Apron at the For Lauderdale/Hollywood International Airport. In this role, Mr. Fish was responsible for developing apron layout options, review and analysis of geotechnical investigation data, design of apron pavement, developing construction access and phasing plans which minimiz the impacts on airport operations, design of stormwater system, design of water and sewer infrastructure to server the proposed Termina Expansion, regulatory permitting, coordination with abutting projects, ensuring all aspects of project design met Federal Aviation Administration (FAA) Advisory Circular (AC) requirements and assisting BCAD with meeting the FAA Airport Improvement Program grant requirements.							
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED		
	I 10 Emorgonov Bridge Densir Denseede FI			PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)		
					2004	2004		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if pr	oject performed w	ith current firm		
b.	Fieu Engineer. Due to the wrath of Hurricane Ivan on September 16, 2004, nearly a quarter mile of the two-lane double span 1-10 concrete bridge spanning Escambia Bay was torn apart. The destruction halted the bridge's nearly 42,000 daily vehicles, and forced truck traffic to take an inconvenient detour north of I-10. Mr. Fish served as a field engineer on a team which quickly responded to the \$33.7 million design-build reconstruction effort by reopening the westbound span to two-way traffic in just 17 days – 7 days ahead of schedule. Exceeding expectations, the project team reopened the eastbound span 26 days ahead of the original 90-day completion schedule. The 2.5-milong spans suffered extensive damage amid one of Florida's hardest hit areas. Forty-six eastbound concrete sections were knocked out or misplaced by the 10-fthigh storm surge, and approximately 28 westbound sections were damaged or misaligned. To get traffic moving again, crews repaired the less-damaged westbound span using eastbound sections. Crews either used barge-mounted cranes to lift the 235-ton sections into position, or employed barges with hydraulic jack trailers to lift up sections and then float them into place. The majority of eastbound reconstruction comprised more than 3,400 lineal ft. of temporary steel bridge sections.							
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED		
	Washington Dulles International Airpor	rt AeroTrain System, C	hantilly,	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)		
	VA				2004	2005 - 2007		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if pr	oject performed w	ith current firm		
C.	Project Engineer. Mr. Fish served as project engineer on a team responsible for of geotechnical investigation data, project scheduling utilizing Primavera P3 Underground AeroTrain System at Dulles International Airport. Responsib (TBM's), selecting open cut locations, and scheduling project while keeping day different phasing options to determine which would be most cost efficient and adverse effects on airport activities.				or cost estimating, construction phasing, review and analysis software, and plan review for the construction of a future bilities included coordination of Tunnel Boring Machines by to day airport activities functioning. Team analyzed many d provide for shortest total schedule length while having no			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED		
	Miami International Airport H-I Aprov	Miami FL :		PROFESSIO	NAL SERVICES	CONSTRUCTION (If applicable)		
	Mann International An port II-5 Apron	, what FL.		2006 2006 - 200		2006 - 2007		
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if pr	oject performed w	ith current firm		
	Field Engineer. Mr. Fish served as field at Miami International Airport which was was divided into 12 phases and included Concourse J, as well as a remote concrete Terminal program area.	d. Field Engineer. Mr. Fish served as field engineer on a team responsible for construction of the \$47 million H-J Apron and Utilities project at Miami International Airport which was part of the Miami Dade Aviation Department's South Terminal Expansion Program. The project was divided into 12 phases and included construction of an 80,000-square-yard Portland Cement Concrete apron around the proposed Concourse J, as well as a remote concrete aircraft parking apron and new asphalt pavement for the adjacent taxi lanes throughout the South Terminal program area						

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT								
10.11	(Complete one Section	E for each k	ey person.)					
12. N	AME	13. ROLE IN THIS CONTR	RACT		14. Y				
Chu	ck Sinclair, PE	Project Principal			22	B. WITH CURRENT FIRM			
15. F	RM NAME AND LOCATION (City and State)				22				
HDR	Engineering, Inc. (Miami Lakes, Florida)								
16. E	DUCATION (Degree and Specialization)		17. CURRENT	PROFESSIONAL R	EGISTRATIO	N (State and Discipline)			
BS, O	Civil Engineering		Professional	Engineer, Florida	, Civil				
18. O	18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)								
	19. RELEVANT PROJECTS								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	Broward County Aviation Department	- General Engineering	Consulting	PROFESSIONAL	SERVICES	CONSTRUCTION (If applicable)			
	Services, Broward County, FL	0 0			g	NA			
	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE		☑ Check if proje	ct performed	d with current firm			
a.	 Project Manager. Mr. Sinclair is serving as the program manager for an open-ended engineering consulting services contract for the Broward County Aviation Department in Broward County, Florida. HDR is leading a team of specialty subconsultants in support of BCAD's current development programs via a five-year, \$9.3 million task order contract. The range of projects performed by the HDR Team includes environmental engineering services; airside infrastructure studies and improvements; safety, security and communication projects; tenant improvements; airport facility refurbishments and improvements; terminal development improvements; landside infrastructure studies; airport development; and airport capital project support. As program manager, Mr. Sinclair is responsible for all administrative, financial, and staffing needs of the projects, as well as planning and scheduling future projects as needed by the Department. In addition, Mr. Sinclair is acting as the project manager for several assignments in the program. 								
	(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED								
	Capital Region Airport Commission, Al	PROFESSIONAL	SERVICES	CONSTRUCTION (If applicable)					
	Richmond, Virginia.		1993		NA				
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE	Check if proje	ct performed	d with current firm				
	Provided technical oversight and subcontractor coordination for remediation of a concrete vault used for treatment of floor drain discharge at the Airport Rescue and Firefighting Facility at the Richmond International Airport, Richmond, Virginia. The project included removal of contaminated liquid, and preparing an assessment report of the findings with a recommendation of how to return the unit to service.								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	Charlotte/Douglas International Airpor	t, Stormwater Projects,	, Charlotte,	PROFESSIONAL	SERVICES	CONSTRUCTION (If applicable)			
	NC			1996		NA			
	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE		Check if proje	ct performed	d with current firm			
c.	Engineer. Mr. Sinclair evaluated alterna International Airport. Activities included impacts of each site. Mr. Sinclair assiste Douglas International Airport. The HEC- optimum credit towards the airports storm	ative locations for a 40 on-site study and compu- ed with final design of t 1 model was used to size water fee.	D-acre in-streat tation of areat the 130 acre- the facility to	am stormwater d and volume of pr foot in-stream sto comply with loca	etention po oposed pon rmwater de ll city storm	nd at the Charlotte-Douglas d sites and the environmental tention pond at the Charlotte water ordinances and provide			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	Charlotte-Douglas International Airpor	rt. Design of Stormwate	r Detention	PROFESSIONAL	SERVICES	CONSTRUCTION (If applicable)			
	Pond, Charlotte, North Carolina			1996		NA			
	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE		☑ Check if proje	ct performed	d with current firm			
d.	Evaluated alternative locations for a 40-ac included on-site study and computation of assisted with final design of the 130 acre-f HEC-1 model was used to size the facility stormwater fee.	re in-stream stormwater area and volume of prop foot in-stream stormwater to comply with local city	detention pone posed pond site r detention po y stormwater o	d at the Charlotte- es and the environ and at the Charlotte ordinances and pro	Douglas Into mental impa Douglas In wide optimu	ernational Airport. Activities acts of each site. Mr. Sinclair iternational Airport. The im credit towards the airport's			

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT								
12. N	AME	13. ROLE IN THIS CONTRACT	eacri k	ey person.)	14. Y	'EARS EXPERIENCE			
M					A. TOTAL	B. WITH CURRENT FIRM			
Mar	K Dikun	Airfield Electrical			41	20			
15. F	IRM NAME AND LOCATION (City and State)								
HDF	HDR Engineering, Inc.(Newark,NJ)								
16. E	DUCATION (Degree and Specialization)	17. C	URRENT	r professioi	NAL REGISTRATIO	N (State and Discipline)			
Degi	Degree not complete N/A								
Mr. inspe Cont (Prog harm	Mr. Dikun possesses 41 years of experience in electrical, mechanical and structural design. His electrical experience includes power studies inspections, loading studies, lighting design and photo metrics, cabling, conduit layouts and schedules, control panels, panel boards and Motor Control Center design, instrumentation, airport lighting for runways and approaches and taxiways and switch houses, PLC programming (Programmable Logic Controllers) and CAD, design and layouts of printed circuit boards, thick and thin film substrates, custom I.C.'s wiring harnesses, schematics, flow diagrams, packaging, loop diagrams, simulation, fabrication process.								
	Γ	19. RELEVANT PR	OJECT	S					
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	Forrest Sherman Field, Pensacola, FL			PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)			
a.					2011				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE	1 11 1	Check if	project performed	d with current firm			
	Electrical QA/QC. Project focused behind taxiway rehabilitation and hold bar sign modifications. This effort was jointly worked on between staff members from Omaha and Newark.								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	PANYNJ, Present Taxiway A and B Bri International Airport, Queens, NY.	dges at John F. Kennedy		PROFESSIO	2007	CONSTRUCTION (If applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	d with current firm			
	Project Manager. Field survey of existing taxiway, bridge and highway conditions and electrical rooms, highway and taxiway lighting, flood and weather sensors, temporary power requirements based on construction staging, guidance sign and revised according to new civil taxiway layout and paving plans in conjunction with the structural bridge plans according to FAA requirements, electrical calculations of regulator distribution, switch house equipment replacement and construction support with final 'As Built' documentation.								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	PANYNJ, Rehabilitation of Taxiway AA	A and BB at La Guardia Airp	ort,	PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)			
	Queens, NY.	I I I I I I I I I I I I I I I I I I I	,		2003				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	d with current firm			
c.	Project Manager. Field survey of existing taxiway and runway conditions and electrical rooms, lighting and guidance signs. Project entailed the design of the airside navigational lighting aides for the taxiway and runway areas including centerline and runway guard bars on the Rehabilitation of Taxiways AA and BB for 4,500 feet of taxiway area along with a Helipad. Work efforts were demolition of existing taxiway centerline lighting system on secondary wiring and design of new taxiway centerline lighting system using primary wiring according to new civil paving plans using the FAA approved spacing for clearance bars for a Group III rating of the airfield. Design efforts also included installing new duct bank systems in the area of work and continued modification to the switch houses for recircuiting all power feed for the taxiway lights to establish a uniform grid, upgrading the required regulators according to electrical calculations and construction support with final 'As Built' documentation.								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
	PANYNJ, Runway 11-29 Rehabilitation	at Newark Liberty Internati	onal	PROFESSIO	NAL SERVICES	CONSTRUCTION (If applicable)			
	Airport, Newark, NJ.				2007	d with aurrant firm			
 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (4) Project Manager. Field survey of existing taxiway and runway conditions and electrical rooms, lighting and guidance signs. Protect the design of the airside navigational lighting aides for the taxiway and runway areas including centerline and runway guard Rehabilitation of Runway 11-29 for 29,000 feet of runway and taxiway area. Work efforts were demolition of existing taxiway lighting system and complete demolition of all runway lights and design of new taxiway centerline lighting system using pri according to new civil paving plans using the FAA approved spacing for clearance bars for a Group IV rating of the airfiel lighting consisted of center and edge lighting, runway end identification lights, touch down zone, land and hold short, the displaced threshold, distance to go signage and guidance signs. Work efforts also included installing new duct bank systems in work to the switch house and modifications to the switch house enter for recircuiting all power feed for the runway and taxiway light for the switch house and modifications to the switch house enter for the runway and taxiway light for the switch house enter the switch house enter									

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT								
40.11	() ()	Complete one Section E	for each k	ey person.)					
12. N	AME	13. ROLE IN THIS CONTRA	CI		14. Y				
Will	Suero, PE	Roadway and Public In	nvolvement		22	12			
15. FI	RM NAME AND LOCATION (City and State)								
HDR	HDR Engineering, Inc.(Miami Lakes, Florida)								
16. E	DUCATION (Degree and Specialization)		17. CURRENT	PROFESSIO	NAL REGISTRATIO	N (State and Discipline)			
BS, G	Civil Engineering]	Professional	Engineer, F	lorida				
18. O	THER PROFESSIONAL QUALIFICATIONS (Public	ations, Organizations, Training	, Awards, etc.)					
		19. RELEVANT	PROJECT	S					
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C				
				PROFESSI	DNAL SERVICES	CONSTRUCTION (If applicable)			
	Taxiway C Favement Evaluation and K	epan, broward County, I	FL	Ongoing		NA			
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	I with current firm			
	rutting was observed after the new pavement was installed and the HDR Team was called in evaluate the pavement and determine the cause of the problem. HDR conducted a thorough review of the pavement and mix design, the quality of materials used, and workmanship performed, and issued a report as to the probable cause of the failure. HDR also developed a range of repair alternatives and solutions with cost estimates for BCAD to consider.								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED			
	SR 924 / Gratigny Parkway PD&E Stud	ly, Miami-Dade Expressw	vay	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)			
	Authority, Miami-Dade County, FL			0	ngoing	NA			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	l with current firm			
b. (PD&E) Study on the extension of the Gratigny Parkway east from NW 37th Avenue to I-95. The Study will be led by HDR and through the FDOT Project Development Process, including ultimate approval by the Federal Highway Administration. Services execution of a Public Involvement Program, analyze and select a final project alignment and alternative, and prepare a Cate Exclusion Type II (Federal NEPA Process). Improvements under evaluation include a 2.5 mile 4-lane bridge viaduct serving as the access expressway. The viaduct would be constructed over and within the median of an existing 6-lane urban arterial (converted to a arterial with the proposed improvements).						Il be led by HDR and worked ninistration. Services include e, and prepare a Categorical viaduct serving as the limited arterial (converted to a 4-lane			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED			
				PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)			
	I-75 PD&E Study FDOT District 4, Bro	ward / Miami-Dade Cour	nties, FL		2012	NA			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐					
c.	Project Manager for multi-modal Project Development and Environment (PD&E) Study in Broward and Miami Dade Counties. The Broward County I-75 roadway improvements extend from the Broward County line north of the interchange with the Florida Turnpike to the I-595/Sawgrass Expressway interchange. These improvements consist of widening I-75 to accommodate the travel demand, potentially with reversible or special use lanes in the median, the addition of auxiliary lanes, interchange modifications and bridge widening or replacements. The PD&E Study also includes an evaluation of up to 10 transit corridors to connect a future transit guideway within the I-75 Right of Way in Broward County to one of several existing of planned Miami-Dade Transit system in Miami-Dade County. The systems include the existing mainline Metrorail, the I-95 express BRT System of the planned North Corridor Metrorail extension. Work effort culminated in the development of a Transit Corridors Evaluation Report that le to a preferred alternative that was included in the Miami-Dade County 2035 L BTP.								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED			
	I. 95 Phase 3 Corridor Design Consulta	nt FDOT District 4 Brow	ward	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)			
	County, FL	in, FDOT District 4, Diov	walu	0	ngoing	NA			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	with current firm			
 (3) BRIEF DESCRIPTION (<i>Bnet scope, size, cost, etc.</i>) AND SPECIFIC ROLE Check if project performed with current firm Project Manager. The I-95 Express Phase 3 project involves implementation of an HOV to HOT conversion for I-95 in southeast Florence from southern Broward County (Stirling Road) to southern Palm Beach County (Linton Blvd). The primary responsibility of the HDR is to serve as an extension of Florida Department of Transportation staff to prepare final project definition, NEPA reevaluations, Road and Structural Design, Traffic Analysis, Cost Estimates, Project Schedules, Risk Analysis, traffic analysis, ITS, Ramp Metering, U Coordination, Environmental Permitting, Stormwater Management Analysis, and Public Involvement for the 30+ mile corridor. The sconsists of reconstruction, widening and resurfacing/overbuild of the I-95 roadway and modification to the associated ramps at the serience conversion from a single lane HOV to dual lane Express Lanes, maintaining the same number of General Purpose 1 throughout. Another scope element is the evaluation of direct connect ramps between the I-95 managed lanes and the I-595 General Purpose 									
	ianes, at this important system to system in	nerchange.				EXHIBIT 3			

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT								
12 N			E for each k	ey person.)	14 V				
12. IN	AME	13. ROLE IN THIS CONTR.	AUT						
Dary	vl Schneider, PE	Aviation Planning		5	5				
15. FI	RM NAME AND LOCATION (City and State)				5	5			
HDR	Engineering, Inc.(Ft. Lauderdale, FL)								
16. E	DUCATION (Degree and Specialization)		17. CURRENT	T PROFESSIO	NAL REGISTRATIO	N (State and Discipline)			
BS, G	Civil Engineering, University of Florida, 200)8	Professional	l Engineer, Fl	orida, No. 76164	4			
18. O	THER PROFESSIONAL QUALIFICATIONS (Public	ations, Organizations, Trainin	g, Awards, etc.)					
		19. RELEVAN	T PROJECT	ſS					
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED			
	Broward County Aviation Department	Reaward County Aviation Department - Coneral Engineering Consulting			ONAL SERVICES	CONSTRUCTION (If applicable)			
	Services. Terminal 4 Apron Civil Work	s at FLL	onsuring		2013	2015			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			Check if project performed with current firm					
a.	Project Designer. BCAD is implementir Terminal 4 Gate Replacement, and Enabl works and underground utility infrastructur fencing and a guardhouse needed to enabl	Project Designer. BCAD is implementing an Airport Expansion Program (AEP) which includes the Expansion of Runway 9R/27L, Terminal 4 Gate Replacement, and Enabling Projects. The T-4 Apron Civil Works project will modify the existing airport terminal civil works and underground utility infrastructure, including apron and airside infrastructure and impacted landside utilities, and relocate security							
	and expand the apron to the east. All proposed work will be completed while maintaining operations to the existing Terminal and Concourse. HDR provided preliminary engineering and final design services and is developing construction bid documents for the project. In addition, HDR is providing planning and design services for environmental restoration of contaminated sites in Project construction for the project operation of the project operation of the project operation of the project construction of the project operation operation operation of the project operation ope								
	permitting services and design coordination. In addition, HDR is overseeing multiple subconsultants who are performing specialized services such as Environmental restoration, Pavement analysis and design, and Stormwater and Drainage Design.								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED			
	WAVE Modern Streetcar, South Florida Regional Transit Authority			PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)			
				O	ngoing				
h	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE		Check if	project performed	I with current firm			
D.	Project Engineer. The Wave Modern Streetcar (Project) is currently comprised of approximately 2.7 miles of circulating track, stations, and a vehicle maintenance and storage facility. The project will be located in Broward County, Florida and is the first of what is expected to be several phases of streetcar construction. Stakeholders in the project include: Federal Transit Administration (FTA), Florida Department of Transportation (FDOT), Fort Lauderdale Downtown Development Authority (DDA), City of Fort Lauderdale, Broward County (BC), Broward County Metropolitan Planning Organization (MPO), and the project sponsor South Florida Regional Transit Authority (SFRTA).								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED			
	FDOT District 4, I-75 PD&E Study, FD	OT District 4, Broward	County,	PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)			
	FL	,	•		2012				
C.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	with current firm			
	Project Designer assisted the project tea responsibilities included creation of theore and updating the main line LREs using D public outreach activities.	m with preparation of L etical, project specific LR bistrict 4 criteria. Addition	Long Range I Es for Park a nally, created	Estimates (L nd Ride facil l graphics, fl	RE) for the entinities, updating integration of the second	re project corridor. Specific tersection improvement LREs ation materials for use during			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED			
	82nd Ave/CR 609 (Ranch Road) New Fe	acility. FDOT District 4	Indian	PROFESSIO	NAL SERVICES	CONSTRUCTION (If applicable)			
	River County, FL.	emity, i DOI Distilet 4,	mulun		2011				
	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE		Check if	project performed	d with current firm			
d.	Project Designer responsible for aiding in lane undivided roadway, parallel to the ea paved) in each direction. The highway wi existing dirt roadway parallel to the canal improvements include the 4 new bridges include signing and pavement and signalize	preparing the estimates for st side of Lateral Canal C Ill begin with a transition to a new a new alignmen s over sub-lateral canals, ation design.	or required R . The rural ty from west to nt to the east, 25 cross dra	ight of Way prical section to east at the s through exi ains and 10	blans for the cons consists of two 1 south end of the sting pastures and wet detention po	struction of a new 7.2-mile, 2- 2' lanes, and 8' shoulders (5' project, to transition from the d citrus groves. The proposed ands. Specific responsibilities			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTR	RACT	14. YEARS EXPERIENCE				
James Krzeminski, PE, PTOE	Transportation Pla	nning	A. TOTAL	B. WITH CURRENT FIRM			
	-	-	17	17			
15. FIRM NAME AND LOCATION (City and State)							
HDR Engineering, Orlando, FL							
16. EDUCATION (Degree and Specializ	17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline)						
ME, Transportation		Professional Engineer, Florida					
BS, Civil Engineering	Professional Traffic Operations Engineer						
18. OTHER PROFESSIONAL QUALIFICATIONS (Public	ations. Organizations. Traini	ng. Awards. etc.)					

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) James Krzeminski is a transportation engineer in the Planning Section of HDR's Orlando office with fifteen years of experience in transportation planning and traffic engineering. He has successfully served in the roles of Project Manager and Project Engineer on numerous key projects for both public and private clients.

	(1) TITLE AND LOCATION (City and State)	(2) YEAR	COMPLETED					
	GOAA Transportation Planning Consultant Services	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
_	Orlando, FL	2011	N/A					
a.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE X Check if project performed with current firm							
	Project Manager since 2006 for this continuing services contract that includes transportation planning, traffic engineering,							
	conceptual design, travel demand forecasting, data collection and analysis	and agency coordination.						
	(1) TITLE AND LOCATION (City and State)	(2) YEAR	COMPLETED					
	Orlando International Airport Roadway Master Plan, Orlando, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
		2004	N/A					
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X Check if project performe	d with current firm					
	Task Manager responsible for establishment of the airport trip generation model, airport subarea modeling, and the completion of an airport roadway "decision tree" analysis tool for evaluating on-site roadways and access points, as well as potential changes in passenger or employee vehicle routing. The final decision tree product, continues to serve as a go-to document for the Airport Authority planning staff							
	(1) TITLE AND LOCATION (City and State)	(2) YEAR	COMPLETED					
	Phoenix Sky Harbor International Airport West Terminal EIS	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
	Traffic Study, Phoenix, AZ	2009	N/A					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm							
C.	Project Engineer responsible for the analysis of existing and projected future traffic conditions at Sky Harbor in support of a EIS Study for a proposed new terminal building. Responsible for the development of a TRANPLAN-based subarea trave demand model specific to Sky Harbor which estimates future traffic volumes on the roadway network through a four-ste process that converts passenger loadings and employee forecasts to ground vehicle trips. Also managed the development of terminal curb analysis model and simulation (using VISSIM) to better project future operating conditions at the curbs.							
	(1) TITLE AND LOCATION (City and State)	(2) YEAR	COMPLETED					
	Pensacola Regional Airport Off-Site Wayfinding Signage:	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)					
_	Inventory, Evaluation, and Recommendations	2007	N/A					
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	X Check if project performe	d with current firm					
	QC Reviewer for this project to improve wayfinding signage to the air existing Pensacola-area airport guide signs, evaluation of existing ar conditions, and recommendations for new or improved airport wayfinding	rport. The project include nd projection of future 2 g signage.	led a GIS inventory of all 2025 roadway and traffic					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT							
	(Complete one Section E for each key person.)						
12. N/	AME	13. ROLE IN THIS CONTR	RACT		14. Y		
Bern	ard Skar, PE	Airfield Pavement De	sign		41	5. WITH CORRENT FIRM	
15. FI	RM NAME AND LOCATION (City and State)				71	,	
HDR	Engineering, Inc.(Omaha, NE)						
16. EI	DUCATION (Degree and Specialization)		17. CURRENT	PROFESSIO	NAL REGISTRATIO	N (State and Discipline)	
MS,	Civil Engineering		Professional	Engineer, N	ebraska, Civil		
BS, 0	Civil Engineering	ations Organizations Traini	na Awarda ata)			
10. 0	THER FROM ESSIONAL QUALITICATIONS (Fubic	auons, organizations, maini	iy, Awarus, eic.,	/			
				·e			
		19. RELEVAN	I PROJECI	3			
	(1) ITTLE AND LOCATION (City and State)			2205500	(2) YEAR (
	Taxiway C Pavement Evaluation and Ro	epair, Broward County	, FL	PROFESSIO	JNAL SERVICES	CONSTRUCTION (If applicable)	
			-		2011	NA	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	with current firm	
	Pavement Specialist. The Team was as Significant rutting was observed after th	signed the task of evalution evalution is a signed the task of evalution is a sign of the	ating the appropriation of the second se	barent failure	e of new paveme am was called i	ent on a Taxiway C at FLL.	
	determine the cause of the problem. HDR	conducted a thorough re	eview of the p	avement and	l mix design, the	quality of materials used, and	
	workmanship performed, and issued a rep	ort as to the probable cau	use of the fail	ure. HDR al	so developed a ra	ange of repair alternatives and	
	solutions with cost estimates for BCAD to	consider.					
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLETED			
	USACE - Omaha District, Coleman AA	F and Grafenwoehr AA	F	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)	
	Obstruction Surveys. Omaha, NE				2008	NA	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	with current firm	
	Army Airfield Germany The surveys cor	ucted two airfield obstruct	ction surveys,	one at Coler	nan Army Airfiel	d and one at Grafenwoehr obstructions within the OIS	
	limits.	interest of foculing the end		, in iguitori			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED	
	MD 45 Transport OB LLC Epploy Corr	arata Hangar Amaha	NF	PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)	
	WID 45 Transpit OD, LLC, Eppicy Corp	or ate mangar. Omana,			2008	2009	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	l with current firm	
	Technical Lead. HDR provided design of a	a new hangar to support t	he operations	and mainten	and maintenance of multiple corporate aircraft located at		
	Eppley Airfield in Omaha, Nebraska. The aircraft hangar is approximately 12,720 SF and there is an additional area of 9,406 SF for administration, operations, and support areas. A new concrete apron will be added and designed to the into the existing concrete apron a				existing concrete appropriate the		
	site. The design will also include a new parking lot to the north of the hangar the			t will provid	e for 23 vehicles.		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED	
	F-35 Joint Strike Fighter Beddown Area	a Development Plan, Eg	lin AFB,	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)	
	Florida		, ,		2007	2007	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	with current firm	
	The objective of the ADP was to provide	a framework for future	facilities and	changes to	existing facilities	in conjunction with the 46th	
	TW, 96th Civil Engineering Group (C	CEG), 796th Civil Eng	gineering Squ	adron (CES	S), 33rd FW, H	IQ AFMC and HQ AETC	
	analysis (arterial road), associated force p	rotection issues, and pro	posed associa	ated alternati	ves. This effort i	s to assist the 33rd FW, 96th	
d.	CES and 46th Test Wing further the support	ort mission statement and	l develop a rea	asonable mit	igation strategy w	where land use and facility use	
	conflicts					exist.	
	The ADP provides advance planning f	for BRAC redevelopme	ent of a 300)-acre site f	or new airfield/	parking ramp, infrastructure	
	improvements, POL facilities, dormitorie	es, dining hall, fitness c	enter, and ac	ademic train	ing complex. A	so included were explosives	
	safety, airfield criteria and AT/FP standard	IS.					

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT						
12.1	NAME	13. ROLE IN THIS CO	NTRACT	14. YEARS EXPERIENCE			
GL				A. TOTAL	B. WITH CURRENT FIRM		
Ste	eve Lewis, RA	Architectural		26	3		
15.	FIRM NAME AND LOCATION (City and State)						
HI	DR Pensacola, FL						
16.	EDUCATION (Degree and Specialization)		17. CURRENT PROFESSIONAL	REGISTRATION (State and D	Discipline)		
M	A, Architecture \ BA, History		Registered Architect (FL)			
18.0	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizatio	ns, Training, Awards, etc.)				
Mr sec Dej Cai	Lewis is a registered architect with urity services at aviation, maritime a partment of Homeland Security Tecl ibbean in which he insured complia	25 years experience and government factorial mical requirements ince with current des	e as a project architect, cons ilities. He has been responsi in over 50 airports and sear sign and physical security re	ultant and manager pro- ble for nationwide implorts in the United State equirements.	lementation of the es, Canada and the		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED		
		, , .		PROFESSIONAL	CONSTRUCTION (If applicable)		
_	Signage Program, Palm Beach In	nternational Airpo	ort; West Palm Beach, FL	2006	2008		
a.	(3) BRIEF DESCRIPTION (Brief scope, size,	cost, etc.) AND SPECIF	IC ROLE	Check if project perf	ormed with current firm		
	Coordinated design development and i	nstallation of a three	million dollar signage project.				
	(1) TITLE AND LOCATION (City and State)			(2) YEAR			
	Skylight Replacement Palm Bea	ch International A	irnort: West Palm	PROFESSIONAL	CONSTRUCTION (If		
	Beach. FL		In port, west I ann	2006			
b.	(3) BRIEF DESCRIPTION (Brief scope, size,	cost, etc.) AND SPECIF	IC ROLE	Check if project perf	formed with current firm		
	Coordinated design development and i	nstallation of a two m	nillion dollar, 25,000sqf termina	al skylight.			
			-				
	(1) TITLE AND LOCATION (City and State)			(2) YEAR			
	USACE Mobile District, Joint Ta	ask Force Bravo (J	TFB) Soto Cano Air	SERVICES	applicable)		
	Base, Honduras, FY 11 Barracks	s Design		2010	Ongoing		
C.	(3) BRIEF DESCRIPTION (Brief scope, size,	cost, etc.) AND SPECIFI	IC ROLE	Check if project perf	ormed with current firm		
	enlisted personnel barracks at Soto Ca	no AB. HDR also con	iducted a needs assessment proj	ject definition report and o	design charrette.		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED		
	USACE Mobile District, Joint Ta	ask Force Bravo (J	(TFB), Soto Cano Air	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)		
	Base, Honduras: FY-12 Barrack	s Survey		2011	NA		
d.	(3) BRIEF DESCRIPTION (Brief scope, size,	cost, etc.) AND SPECIF	IC ROLE	Check if project perf	formed with current firm		
	Project Architect. HDR prepared planning documents: included project definition reports, design charrettes, site analysis, and a Master Plan for both FY11 and FY12 Enlisted Barracks. Responsible for the complete design of the facility: included plans and specifications and Ready to Advertise documents for the construction contract solicitation. The facility was designed using International Building Code standards.						
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED		
	NAVEAC Southoost Miniment	Constation NOD	C Culfnort MS	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)		
	NAVFAC Southeast, Minimart /	Gas Station, NCB	C Gunport, MS	2011	NA		
	(3) BRIEF DESCRIPTION (Brief scope, size,	cost, etc.) AND SPECIF	IC ROLE	Check if project perf	ormed with current firm		
e.	Project Architect. HDR was responsib provisions for a future carwash. The be requirements, Navy Exchange Comma	le for the design of pla uilding was designed nd requirements and	ans and specifications for a new to conform to USGBC LEED S NCBC Gulfport Planning and I	v 7,500 SF minimart with Silver, DoD ATFP, ABA, Development Guidelines.	gas station and EPACT 2005, LID		
L							

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT							
12 N	() AME	Complete one Section	E for each k	ey person.)	14 \		
				A. TOTAL	B. WITH CURRENT FIRM		
Johr	n McPherson, AICP	Airport Master Pann	ing		26	20	
15. F	RM NAME AND LOCATION (City and State)						
HDR	Engineering, Inc.(Anchorage, AK)		1				
16. E	DUCATION (Degree and Specialization)		17. CURRENT	r PROFESSIO	NAL REGISTRATIO	N (State and Discipline)	
MA, BA	Plan Sciences Mathemetics		American In No. 11580	1stitute of Ce	rtified Planners, U es Not Expire	US National Registration.,	
18. 0	THER PROFESSIONAL QUALIFICATIONS (Public	ations, Organizations, Traini	ng, Awards, etc.)			
	1	19. RELEVAN	T PROJECT	S			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED	
	Apalachicola Municipal Airport Master	· Plan, Apalachicola Mu	ınicipal	PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)	
	Airport, Florida.				2005	NA	
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	d with current firm	
	Airport Planner. John prepared and wrote demand and capacity analysis, and alternat	all aspects of the airpor tives development sectio	t master plan i ns.	including the	background and	inventory, aviation forecasts,	
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED	
	Alaska Dept of Trans & Public Facilitie	s, Iliamna Airport Mas	ter Plan,	PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)	
	Iliamna Airport, AK.				2008	N/A	
h	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	with current firm	
address line-of-sight vis-a-vis the Iliama Hotel, and between the runways and the waterways on Pike Lake; upgrade blast pad di determine ATIS location; acquire airport property; improve seaplane facilities; lack of parallel taxiways; access problems perir too near the runway causes Part 77 Airspace problems, and fishermen use the perimeter road and park on the apron, need to shift to develop RSA; length, and address Part 77 penetrations that would result in the need for PAPIs.				approace connects and proceedances, ipgrade blast pad dimensions; cess problems perimeter road apron, need to shift a runway			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR COMPLETED		
	Alaska Dept of Trans & Public Facilities, Birchwood Airport Master Plan,		PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)		
	Birchwood, AK.				2008	2011	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	with current firm	
	Project Manager. The runway at the King Salmon Airport was congested during the busy summer season while other airport infrastructure needed upgrades to meet Federal Aviation Agency (FAA) standards. HDR's responsibilities included developing a draft AMP that identified airport issues), holding community meetings, outlining airport facilities and transportation trends, and preparing airport layout plans. HDR also conducted and environmental assessment (EA) and prepared a final AMP.						
-	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED	
	Alaska Dept of Trans & Public Facilitie	s, Alaska DOT. King Sa	almon	PROFESSIC	NAL SERVICES	CONSTRUCTION (If applicable)	
	Airport Master Plan, King Salmon, AK	•			2004	2011	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	d with current firm	
	Project Manager. The runway at the King needed upgrades to meet Federal Aviation airport issues), holding community meetir also conducted and environmental assessm	Salmon Airport was con Agency (FAA) standard ngs, outlining airport fac nent (EA) and prepared a	ngested during ls. HDR's resp ilities and trar final AMP.	g the busy su onsibilities in asportation tr	mmer season wh ncluded developin ends, and prepari	ile other airport infrastructure ng a draft AMP that identified ing airport layout plans. HDR	
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED	
	Alaska Dept of Trans & Public Facilitie Master Plan, Wrangell Airport, AK	s, Alaska DOT, Wrang	ell Airport	PROFESSIC	2004	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	d with current firm	
d.	Project Manager. To identify improvemen runway and taxiway safety areas, the airpo seaplane facility improvement. In addition	nts needed at this airpor ort's proximity to the loca to managing HDR's team	t in southeast 1 landfill, and n, John prepar	Alaska, this adding impr red the projec	master plan eval ovements like mo ct's condition and	luated issues like substandard ore lease lot areas and a public needs assessment.	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT						
10.11	(Complete one Section E for each ke					
12. N	AME	13. ROLE IN THIS CONTR	ACT		14. Y	
Eric	Cleveland	Airspace Analysis			17	2
15. FI	RM NAME AND LOCATION (City and State)				17	2
HDR	Engineering, Inc.(Athens, GA)					
16. El	DUCATION (Degree and Specialization)		17. CURREN	T PROFESSIO	NAL REGISTRATIO	N (State and Discipline)
M.S.	, Military Operational Art and Science, 2005	5				
M.A.	, Management/Human Resources, 1993					
B.S.,	Criminal Justice, University of AL, 1990	ations Organizations Trainin	a Awarda ata	1		
10. 0	THEN PROFESSIONAL QUALITICATIONS (Public	allons, Organizations, Trainin	iy, Awarus, eic.)		
		19. RELEVAN	T PROJECT	ſS		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
			141	PROFESSI		CONSTRUCTION (If applicable)
	the Northern Mariana Islands (CNMI)	a Study for the Common	nwealth of	01	ngoing	NA
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	with current firm
	Served as Project Manager and Airspace/ going Environmental Impact Statement (E to increase joint military exercise and hum	Airfield Analyst while co IS) for an additional airfi anitarian assistance/disas	onducting an eld in United ter relief capa	Aeronautica States territo ability for No	l Study to support ory in proximity to ortheast Asia.	rt the development of the on- o the Philippine Sea designed
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED
	US Marine Corps Forces Pacific (MARI	FORPAC) Airspace Mit	igation	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)
	Plan for Guam and Commonwealth of the (CNMI)	he Northern Mariana Is	slands	01	ngoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	with current firm
р.	Served as Deputy Program Manager and mitigation plan including site visit and establishment of special use airspace (SU Guam, Tinian, and Pagan that are required Corps forces relocation from Okinawa to C	Airspace Analyst for all coordination meetings v JA) overlying proposed i to support future force st Guam.	work necess with Federal Marine Corp tructure, beyo	Aviation A Aviation A s aviation ac ond that curre	dministration (F. ctivities and live ently associated w	g, and conducting an airspace AA) officials supporting the fire ranges on the islands of rith the realignment of Marine
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED
	Natural Infrastructure Assessment (NIA	A) Update for Cannon A	ir Force	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)
	Base (CAFB), New Mexico			01	ngoing	N/A
c	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if project performed with current firm		
	Served as Airspace and Frequency Spectrum Analyst for CAFB and Melrose Transformation to evaluate and quantify the capabilities of Cannon AFB and Melros sustainability. The natural infrastructure assets evaluated by this assessment ince (including military training land, nonmilitary land, and Air Installation Compatidischarge.			se Range to achieve short- and long-term mission uded airspace, air quality, frequency spectrum, surface land ble Use Zones [AICUZ]), water supply, and water		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	COMPLETED
	Headquarters Pacific Air Forces Divert	Activities and Exercises	5	PROFESSIO	NAL SERVICES	CONSTRUCTION (If applicable)
	Environmental Impact Statement (EIS) Commonwealth of the Northern Marinia	for the Island of Guam ana Island (CNMI)	and	01	ngoing	N/A
Ь	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	d with current firm
u.	Serve as Air Traffic, Airspace, and Airfield Analyst to obtain, analyze, and su effect of proposals on current and projected air traffic and air space utilization range, and low-level-route related airspace for stand alone and joint-use commobjects within or in close proximity to airfield and airspace clearance zones at Thermal Instrument Procedures (TERPS), existing airways, and navigation aids.		immarize ava , including t nercial or ge nd imaginary	ailable airspace p he feasibility of p neral aviation act airfield/airspace	lanning data to determine the proposals to use installations, ivities. Conduct inventory of obstruction control surfaces,	
(1) TITLE AND LOCATION <i>(City and State)</i> (2) YEAR COMPLETED					COMPLETED	
	Disal-Hills Company (in EAD Dr. 1880)	hata ala Englistation D		PROFESSIO	NAL SERVICES	CONSTRUCTION (If applicable)
	Black Hills Corporation, FAR Part 77 C	Dostacle Evaluation, Pue	edio, CO		2011	N/A
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	d with current firm
	Served as Airspace/Airfield Analyst and Airport. Provided a detail analysis in comp successful project completion.	Project Manager to det pliance with Federal Avia	ermine the a ation Regulat	iffect 94 stru ion (FAR) Pa	actures will pose art 77. Presented	to nearby Pueblo Memorial possible mitigations to ensure

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT					
(Complete one Section E for each key person.)						
12. NAIVIE 13. ROLE IN THIS CONTRACT						
Mela	nnie Fowler, PE	Project Controls			18	6
15. FI	RM NAME AND LOCATION (City and State)	I			10	0
HDR	Engineering, Inc. (Ft. Lauderdale, FL)					
16. EI	DUCATION (Degree and Specialization)		17. CURRENT	PROFESSION	AL REGISTRATIO	N (State and Discipline)
BS, G	Civil Engineering		Professional	Engineer, Flor	rida, Civil	
18 0	THER PROFESSIONAL OUALIFICATIONS (Public	ations Arganizations Traini	ing Awards atc)		
10.0			ng, Awaras, cic.,	/		
		19. RELEVAN	II PROJECI	5		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
	Broward County Aviation Department,	General Engineering (Consultant,	PROFESSION	AL SERVICES	CONSTRUCTION (If applicable)
	Ft. Lauderdale, FL			Ong	going	NA
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE	1	🗹 Check if pi	roject performed	l with current firm
a.	Project Engineer. HDR is leading a team \$9.3 million task order contract. The ran infrastructure studies and improvements; s and improvements; terminal development	of specialty subconsulta ge of projects performed safety, security and com t improvements; landsid	ants in support d by the HDR munication pro e infrastructur	of BCAD's cu Team includes ojects; tenant i re studies; airp	arrent developm s environmenta mprovements; port development	nent programs via a five-year, l engineering services; airside airport facility refurbishments nt; and airport capital project
	support. Melanie also serves as the Project	Control specialist. She	is responsible	for all adminis	strative and fina	ncial needs of the projects.
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
	Ft Louderdele Hellywood International Airport Terminal 4 Apron			PROFESSION		CONSTRUCTION (If applicable)
	Civil Works, Ft. Lauderdale, Florida			20)13	2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		🗹 Check if pi	roject performed	with current firm
	Project Engineer. BCAD is implementing	an Airport Expansion P	rogram (AEP)	which include	s the Expansior	n of Runway 9R/27L,
	Terminal 4 Gate Replacement, and Enablin works and underground utility infrastructu	ng Projects. The T-4 Ap	oron Civil Wor	ks project will	modify the exis	sting airport terminal civil
b.	fencing and a guardhouse needed to enable	e the Terminal 4 Gate Re	eplacement Pro	ject. The proje	ect will also rep	lace the Terminal 4 Apron
	and expand the apron to the east. All prop	osed work will be compl	leted while ma	intaining oper	ations to the exi	sting Terminal and
	Concourse. HDR provided preliminary en	igineering and final design design services for en	gn services and	l is developing	construction bi	id documents for the project.
	footprint. Services include existing infrast	tructure evaluations, desi	ign, construction	on cost estimat	ing, construction	on phasing and sequencing,
	permitting services, and design coordination	on. In addition, HDR is o	overseeing mul	ltiple subconsu	ltants who are j	performing specialized
	services such as Environmental restoration	n, Pavement analysis and	design, and S	tormwater and	Drainage Desig	gn.
	(1) TITLE AND LOCATION (City and State)					
				DDAEESSION		
	Engineering Services for Solid Waste No Orlando, FL.	orthwest Transfer Stati	ion,	PROFESSION	NAL SERVICES	
	(3) BRIEF DESCRIPTION (Brief scope size cos	t_etc.) AND SPECIFIC ROLE		ZC Check if p	roject performed	with current firm
c.	Task Manager. Ms. Fowler serves as a Tas	sk Manager for site selec	tion of a new s	solid waste tra	sfer station in (Orange County, Florida, She
	has assisted with the development of selec for other elements including proximity to to involve the stakeholders.	tion criteria including fe- residential and school us	deral, state and es. Ms. Fowle	l local regulati er is also helpir	ons. Additionang to develop a p	lly, criteria were developed public participation program

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT					
10 N	() ()	ey person.)				
Stev	en Tozer, AIA, LEED AP BD+C	Architecture Task Mar	nager	29	6	
15. F	RM NAME AND LOCATION (City and State)			27	0	
HDR	Architecture, Inc.(Tampa, Florida)					
16. E	DUCATION (Degree and Specialization)		17. CURREN	PROFESSIONAL REGISTRATIO	N (State and Discipline)	
BS, A	Architecture		Registered A	Architect, Florida, Georgia		
MS,	Architecture		. Assenda ata	1		
18.0	THER PROFESSIONAL QUALIFICATIONS (Public	calions, Organizations, Training	j, Awarus, eic.)		
		19. RELEVANT	PROJECT	S		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED	
	Broward County Aviation Department	- General Engineering Co	onsulting	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
	County, FL	inal 4 Curbside Canopy, J	Бгожага	2011	NA	
	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE		Check if project performed	d with current firm	
	Project Manager. The HDR Team deve	loped the design docume	nts for two	separate projects procured	under one bid for repair and	
a.	improvements at the passenger terminals funded for repair from a EEMA grant B	at FLL. The soffits at Ter	rminals 2, 3	and 4 had all been damaged	by recent hurricanes and were	
	level. Under a fast-track schedule, HI	OR developed Construction	on Documen	its (plans and specifications)) including full architectural,	
	structural, mechanical and civil site plans	. A key component of the	project incl	uded a comprehensive Maint	enance of Traffic (MOT) Plan	
	to manage pedestrian and vehicle access a	and flow during nighttime	construction	activities. HDR's scope inc	luded procurement assistance,	
	the engineer's estimate and the project is s	scheduled to finish on time	and within	budget.	esponsive old was well within	
		<u> </u>	1.1			
	Broward County Aviation Department Services Pedestrian Bridge Rehabilitat	- General Engineering Co ion Broward County FI	onsulting	PROFESSIONAL SERVICES		
	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t etc.) AND SPECIFIC ROLE	-	Check if project performe	d with current firm	
	Project Manager. A Task Order from	HDR's FLL General Er	ngineering (Contract, HDR is developing design documents for the		
b.	rehabilitation of four existing pedestrian b	oridges at FLL which link	Terminals 2,	3 and 4 with the central park	ing garages. The first phase is	
	the Demolition and Cleaning of the bridge Redesign of the bridges. Structural dam	e structure to remove rust	damage and	lead-based paint. The second phase will be the Repair and		
	redesigned in accord with BCAD's Public	Arts program. HDR is wo	orking with B	BCAD's Artist to implement t	heir design intent and serve as	
	Design Professional of Record. Services	will include Construction	n Contract A	Administration and onsite Re	sident Project Representation	
	during construction. Demolition and Clea	aning construction contract	t award is p	lanned for November, 2012,	with award of the Repair and	
	Recessing planned for spring 2015.			I		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED	
	Fort Belvoir Community Hospital, Ft. H	Belvoir, VA		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
		,		2010	2011	
c	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE	650 1 1	Check if project performe	d with current firm	
0.	Project Manager. This DOD project is replacement hospital (to house inpatient)	1,100,000 gsf, with a \$ and outpatient services) of	650m budg entral utility	eted construction cost. The plant medical office building	project includes a 128 -bed and ambulance shelter helipad	
	and vehicle parking garages. HDR is pro	viding full A/E services ir	ncluding con	sulting, equipment planning,	AT FP security planning and	
	design, and full environmental services (i	onmental impact analysis, site	improvements and landscape			
design).						
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED	
	Fort Bliss Hospital Replacement Admin	nistration & Education R	uilding.	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
	El Paso, TX		<u>-</u> ,	2010	2011	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE		Check if project performe	d with current firm	
	Project Manager. 1.2 million SF replacer	ment hospital campus at F	Ft. Bliss, Te	xas comprised of Critical Ca	re Hospital, Outpatient Clinic	
	Buildings, Administration & Education Building, Research Building and Central Utility Plant.					

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT					
	()	Complete one Section	E for each k	ey person.)		
12. N	AME	13. ROLE IN THIS CONTR	RACT		14. Y	
Josh	ua Salazar	Roadway and Public	Involvement	-	A. IUIAL	B. WITH CORRENT FIRM
15. FI	RM NAME AND LOCATION (City and State)				9	3
HDR	Engineering Inc (Et Lauderdale FL)					
16 FI	DUCATION (Degree and Specialization)		17 CURRENT	PROFESSION		N (State and Discipline)
Mast	ers of Public Administration (MPA). Florida	a Atlantic University.	Professional	Engineer, Fl	orida. No. 69976	5
2009		a i folaliti e chi (effici),	1101000010114			,
Bach	elor of Science, Civil Engineering, Universi	ity of Michigan, 2004				
18. O	THER PROFESSIONAL QUALIFICATIONS (Public	ations, Organizations, Traini	ng, Awards, etc.)		
		19. RELEVAN	T PROJECT	S		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	OMPLETED
	175 Managad Lanas Procurament FDC)T District 1 Proword	County	PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)
	FL.	71 District 4, Broward	County,	O	ngoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	I with current firm
 a. Dade County and southwest Broward County Florida. The limits and project in by HDR for the I-75 corridor, working for FDOT District 4, along with FDOT activities to be undertaken by HDR during this Managed Lanes development p including Line and Grade, Cross Sections, drainage swales/ponds, etc) for the set to north of Miramar Parkway in Broward County. Work within these limit Drive/NW 186th Street interchange, as well as the full build-out of the syst (Homestead Extension of the Florida Turnpike, HEFT). The primary I-75 mail lanes, with the addition of a 4-lane managed lanes system in the existing med Proposal (RFP) document that will be the basis for multiple stand-alone project Design-Build). HDR Task Lead to reevaluate the PD&E Study's ultimate recon implementation of the I-75 Express Lanes within the median of I-75. Evaluate implement Managed Lanes on I-75 in northwest Miami-Dade County and sou District 6. Feasibility assignments included preliminary traffic and revenue for and construction segmentation scenarios, and coordination with investmer Coordinated with FDOT Central Office on FHWA applications and state legis incident management coordination with FDOT and local emergency response 			ring a contract and project im g with FDOT evelopment pretc) for the sec n these limits it of the syste hary I-75 mair existing medi- l-alone project altimate recorr I-75. Evaluate unty and south d revenue for th investment nd state legisla cy response s ral purpose lar	to implement provements a District Six roject include ction of I-75 include the em to system filme typical s an. HDR witts (each Bid attended alter d the feasibi- need alter d the feasibi- need alter grade anal attive authorit takeholders t nes.	are a by-product of and the Florida T e preparation of H from NW 170th S reconstruction of a interchange of section consists of ll also lead the p as some form of mative to obtain I lity of developing rd County Florid port of ingress/eg ysis lead by Fl y to operate tolle o implement inno	s on 1-75 in northwest Miami- of a NEPA (PD&E) Study led Curnpike Enterprise. Specific Preliminary Plans (30% Plans Street in Miami-Dade County, f the I-75 at Miami Gardens I-75 at the Florida Turnpike of widening I-75 from 8 to 12 reparation of the Request for Alternative Delivery, such as FHWA authorization on rapid g and procuring a contract to a in coordination with FDOT gress point placement, tolling orida's Turnpike Enterprise. ed lanes on the interstate. Led ovative strategies for incident
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	OMPLETED
	I 05 Phase 3 Consider Design Consulta-	nt FDOT District 4		PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)
	1- 95 Phase 5 Corridor Design Consulta	iii, FDOT District 4		Oı	ngoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		🗹 Check if	project performed	I with current firm
b.	 Project Engineer. The I-95 Express Phase 3 project involves implementation of an HOV to HOT conversion for I-95 in southeast Florid from southern Broward County (Stirling Road) to southern Palm Beach County (Linton Blvd). The primary responsibility of the HDR teal is to serve as an extension of Florida Department of Transportation staff to prepare final project definition, NEPA reevaluations, Roadward and Structural Design, Traffic Analysis, Cost Estimates, Project Schedules, Risk Analysis, traffic analysis, ITS, Ramp Metering, Utili Coordination, Environmental Permitting, Stormwater Management Analysis, and Public Involvement for the 30+ mile corridor. The score consists of reconstruction, widening and resurfacing/overbuild of the I-95 roadway and modification to the associated ramps at the service interchange, conversion from a single lane HOV to dual lane Express Lanes, maintaining the same number of General Purpose lane throughout. Another scope element is the evaluation of direct connect ramps between the I-95 managed lanes and the I-595 General Purpo lanes, at this important system to system interchange. The HDR team will be responsible for serving as an extension of the Department (FDOT District 4) Staff for analysis and documentation of the project scope, and development of RFP and associated backup information support the procurement of anticipated Design-Build or Design-Build-Finance contracts. The work also includes providing procureme support and plans review/post design services throughout the design and construction phases. 					for I-95 in southeast Florida sponsibility of the HDR team EPA reevaluations, Roadway ITS, Ramp Metering, Utility 30+ mile corridor. The scope ssociated ramps at the service ber of General Purpose lanes und the I-595 General Purpose extension of the Department's pociated backup information to cludes providing procurement
	(1) TITLE AND LOCATION (City and State)				(2) YEAR C	OMPLETED
C.	SR 924 / Gratigny Parkway PD&E Stud	ly, Miami-Dade Expres	sway	PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)
	Authority, Miami, FL			Oı	ngoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	I with current firm

The Miami-Dade Expressway Authority has contracted with HDR to perform a Project Development and Environment (PD&E) Study on the extension of the Gratigny Parkway east from NW 37th Avenue to I-95. The Study will be led by HDR and worked through the FDOT Project Development Process, including ultimate approval by the Federal Highway Administration. Services include execution of a Public Involvement Program, analyze and select a final project alignment and alternative, and prepare a Categorical Exclusion Type II (Federal NEPA Process). Improvements under evaluation include a 2.5 mile 4-lane bridge viaduct serving as the limited access expressway. The viaduct would be constructed over and within the median of an existing 6-lane urban arterial (converted to a 4-lane arterial with the proposed improvements). Additional alternatives under evaluation include a full system to system interchange at the I-95 location, with connections under consideration to either the I-95 Express (Managed Lanes) or the I-95 General Purpose Lanes. Multi-modal transit improvements are also being considered, including interface and coordination with the Miami-Dade Transit Orange Line Metrorail extension, park and ride lots, transit stations, etc.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT						
10 10	(l	Complete one Section	E for each k	ey person.)	14 \	
12. NAP	ME	13. ROLE IN THIS CONTR	RACI			
Abbie	Wilson, PE	Stormwater			8	8
15. FIR	M NAME AND LOCATION (City and State)				0	, , , , , , , , , , , , , , , , , , ,
HDR H	Engineering, Inc.(Ft. Lauderdale, FL)					
16. EDU	UCATION (Degree and Specialization)		17. CURRENT	PROFESSIO	NAL REGISTRATIC	N (State and Discipline)
BS, Oo	cean Engineering, Florida Institute, 2006		Professional	Engineer, F	lorida, No. 3913	5
18. OTH	HER PROFESSIONAL QUALIFICATIONS (Public	ations, Organizations, Traini	ing, Awards, etc.)		
		19. RELEVAN	IT PROJECT	S		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
	Broward County Aviation Department -	General Engineering	Consulting	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)
	Services. Terminal 4 Apron Civil Works	s at FLL	consulting	-	2013	2015
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	with current firm
	Project Designer. BCAD is implemented a	n Airport Expansion Pro	ogram (AEP) v	which include	es the Expansion	of Runway 9R/27L, Terminal
	4 Gate Replacement, and Enabling Project	ts. The T-4 Apron Civi	l Works proje	ct will modif	fy the existing air	port terminal civil works and
a.	underground utility infrastructure, includin	ng apron and airside inf	rastructure an	d impacted I	andside utilities,	and relocate security fencing
	expand the apron to the east. All propose	d work will be complete	ed while main	taining oper	tions to the exist	ing Terminal and Concourse.
	HDR provided preliminary engineering an	d final design services a	ind is developi	ing construct	ion bid documen	ts for the project. In addition,
	HDR is providing planning and design s	services for environment	ntal restoration	n of contam	inated sites in F	roject construction footprint.
	Services include existing infrastructure ev	aluations, design, const	ruction cost es	stimating, co	nstruction phasir	g and sequencing, permitting
	Environmental restoration Pavement analy	ion, HDR is overseeing	multiple subc	onsultants w rainage Desi	no are performin	g specialized services such as
	(1) TITLE AND LOCATION (<i>City and State</i>) (2) YEAR COMPLETED					
				PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)
	1-95 Phase 3 Corridor Design Consultant, FDOT District 4			0	ngoing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	, etc.) AND SPECIFIC ROLE	-	☑ Check if	project performed	with current firm
	Project Engineer. The I-95 Express Phase	3 project involves impl	lementation of	f an HOV to	HOT conversion	for I-95 in southeast Florida
	from southern Broward County (Stirling R	oad) to southern Palm B	Beach County (Linton Blvd). The primary re	esponsibility of the HDR team
h	and Structural Design Traffic Analysis	artment of Transportatio	on staff to prep	bare final pro	traffic analysis	EPA reevaluations, Roadway
D.	Coordination. Environmental Permitting. S	Stormwater Managemen	t Analysis. and	d Public Invo	olvement for the	30+ mile corridor. The scope
	consists of reconstruction, widening and re	esurfacing/overbuild of	the I-95 roadv	vay and mod	ification to the a	ssociated ramps at the service
	interchange, conversion from a single la	ne HOV to dual lane E	Express Lanes	, maintaining	g the same numb	ber of General Purpose lanes
	throughout. Another scope element is the element at this important system to system i	nterchange The HDR	ect ramps betw team will be r	ween the 1-95	managed lanes a	and the 1-595 General Purpose
	(FDOT District 4) Staff for analysis and do	ocumentation of the proj	ect scope, and	l developmer	it of RFP and ass	ociated backup information to
	support the procurement of anticipated De	esign-Build or Design-E	Build-Finance	contracts. T	he work also ind	cludes providing procurement
	support and plans review/post design servi-	ces throughout the desig	n and construc	ction phases.		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
	SR A1A (Flagler Memorial Bridge) DB	from Olive Avenue to (Cocoanut	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)
	Row Palm Beach County, FDOT Distric	t 4, Palm Beach Count	y, Florida	0	ngoing	2015 (Estimate)
с.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	, etc.) AND SPECIFIC ROLE		Check if	project performed	I with current firm
	Project Designer assisted the project tear	m with preparation of I	Long Range I	Estimates (L nd Pide facil	RE) for the enti	re project corridor. Specific
	and updating the main line LREs using D	istrict 4 criteria. Additio	onally, created	graphics. fl	vers, and present	ation materials for use during
	public outreach activities.			8 <u>r</u> eo, 11	,,	tor use during
	(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED					COMPLETED
	Districtwide Stormwater Program Man	agement FDOT Distric	of 7	PROFESSIC	NAL SERVICES	CONSTRUCTION (If applicable)
					2010	N/A
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	d with current firm
	Drainage designer for this multi-task contract. HDR provides stormwater management studies, analyses and design in support of the					
District's work program and drainage unit. Services include preparation of drainage maps, location hydraulic report, stormwater analysis,					udies, analyses	and design in support of the
	Drainage designer for this multi-task con District's work program and drainage unit contract plans, surfacewater management	ntract. HDR provides s t. Services include prepa	tormwater ma aration of drai	inagement st inage maps,	udies, analyses location hydrauli	and design in support of the c report, stormwater analysis, isa'' certification stormwater

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT							
12 N		Complete one Section	E for each k	ey person.)	14 \		
12.11					A. TOTAL	B. WITH CURRENT FIRM	
Pedr	o Loureiro, PE	Structures			21	21	
15. FI	RM NAME AND LOCATION (City and State)	•					
HDR	Engineering, Inc.(Miami Lakes, Florida)						
16. EI	DUCATION (Degree and Specialization)		17. CURRENT	F PROFESSIO	NAL REGISTRATIO	N (State and Discipline)	
BS, C	Civil Engineering		Professional	Engineer, F	lorida, Civil		
18. O	THER PROFESSIONAL QUALIFICATIONS (Public	ations, Organizations, Trainii	ng, Awards, etc.)			
		19. RELEVAN	T PROJECT	ſS			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (OMPLETED	
	Broward County Aviation Department .	- General Engineering (Consulting	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)	
	Services, Broward County, FL	General Engineering	consulting	01	ngoing	NA	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	with current firm	
а.	Project Engineer. HDR is leading a team	of specialty subconsulta	ints in support	t of BCAD's	current developn	nent programs via a five-year,	
\$9.3 million task order contract. The range of projects performed by the HDR Team includes environmental engineering services; air infrastructure studies and improvements; safety, security and communication projects; tenant improvements; airport facility refurbishm and improvements; terminal development improvements; landside infrastructure studies; airport development; and airport capital pro- support.				l engineering services; airside airport facility refurbishments nt; and airport capital project			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED	
	L 05 Phase 3 Consider Design Congulta	nt Boward County EL		PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)	
	1- 95 Phase 3 Corridor Design Consultan	ni, Boward County, FL		Ol	ngoing	NA	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		🗹 Check if	project performed	I with current firm	
b.	 b. b. b. conversion for the total conversion for the total conversion				EPA reevaluations, Roadway (EPA reevaluations, Roadway ITS, Ramp Metering, Utility 30+ mile corridor. The scope ssociated ramps at the service per of General Purpose lanes and the I-595 General Purpose extension of the Department's ociated backup information to cludes providing procurement		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED	
	82nd Ave/CR 609 (Ranch Road) New Fa	acility, FDOT District 4	, Indian	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)	
	River County, FL.				2012	NA	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if project performed with current firm			
 c. Structural Engineer for the construction plans of a new 7.2-mile, 2-lane undivided rural typical section consists of two 12' lanes, and 8' shoulders (5' paved) in each west to east at the south end of the project, to transition from the existing dirt road east, through existing pastures and citrus groves. The proposed improvements indrains and 10 wet detention ponds. Project requirements also include stormwater plans preparation, traffic design and plans, environmental permitting, utility coord design of four bridge structures over distribution canals at the Sebastian Water M prestress panel and Modified AASHTO Type II girder superstructures. 				ed roadway, j ch direction. adway parall nclude the 4 rr manageme ordination, ar Managemen	d roadway, parallel to the east side of Lateral Canal C. The ch direction. The highway will begin with a transition from adway parallel to the canal to a new a new alignment to the nclude the 4 new bridges over sub-lateral canals, 25 cross r management modeling and design, drainage and roadway rdination, and public involvement. Responsibilities include Management District. BDR considers Inverted-T, precast-		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED	
	FDOT District 4. SR 9 / I-95 Widening f	rom St. Lucie/Indian R	liver	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)	
	County Line (MP 0.000) to North of SR	60/Osceola Blvd. (MP 6	5.840)		2011	NA	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	I with current firm	
	Senior Project Engineer responsible for r complete RFP Package including all requir	eviews of miscellaneous red attachment for this D	s components esign Build p	of structure, roject.	/bridge constructi	on plans. HDR developed a	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT						
12 N		Complete one Section	E for each k	ey person.)	14 \	
12.11					A. TOTAL	B. WITH CURRENT FIRM
Bill	Zavatkay, PE, LEED AP	M.E.P		•	28	13
15. F	IRM NAME AND LOCATION (City and State)					
HDR	R Engineering, Inc.(Atlanta, GA)					
16. E	DUCATION (Degree and Specialization)		17. CURRENT	F PROFESSION	NAL REGISTRATIO	N (State and Discipline)
BS, I	Mechanical Engineering, 1990		Professional	Engineer, Fl	orida, Civil	
18. O	THER PROFESSIONAL QUALIFICATIONS (Public	cations, Organizations, Traini	ng, Awards, etc.)		
	(1) TITLE AND LOCATION (City and State)	19. RELEVAN	II PROJECI	5	(2) YEAR (
				PROFESSIO		
	The Cleveland Clinic Foundation, Biolo Cleveland OH	gical Resources Buildin	ıg,	11101 20010	2004	2004
			-		2004	2004
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cos	<i>t, etc.)</i> AND SPECIFIC ROLE			project performed	i with current firm
	Senior Mechanical Engineer. HDR provided full architect/engineering desig vivarium and lab building expansion. Vivarium includes animal holding area surgical suite. Critical systems are provided with redundancy and failure m 67,000 sf building expansion that has 40,000 sf of vivarium space which inclu procedure rooms, and a surgical suite. The Biological Resources Building is a				of species, cage ion in complian- ding areas for a lition on top of a	e wash, procedure rooms, and ce with Owner guidelines. A variety of species, cage wash, n existing three-story research
(1) TITLE AND LOCATION (City and State)					(2) YEAR (COMPLETED
	Coorgio State University Dowloor II. Deti	t Soionas Conton Atlan	to CA	PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)
	Georgia State University Parker H. Peti	a Science Center, Atlan	la, GA		2010	2010
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	I with current firm
	Senior Mechanical Engineer. A ten-story research and contains laboratories, a 100-s based Biosafety Level 4 labs as well as a "	306,000 SF/ 28,400 m to seat auditorium as well as visualization wall"_a lar	ower, the Cent s offices and c ge array of co	ter is designed lassrooms. The mputer screen	d for multidiscipl ne facility houses ns used to view v	inary science teaching and one of only a few university- ast amounts of data.
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
	NAVFAC Southeast, Shaw Air Force Ba	ase, Medical Clinic Rep	lacement,	PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)
c	Sumter, South Carolina			,	2012	2012
0.	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	with current firm
	Senior Mechanical Engineer. The replace provides medical, ancillary, administrative	ment 115,581 SF Outpati e and support functions.	ient Medical C	Clinic include	s a 2,227 SF Am	bulance Shelter as well as
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
				PROFESSIO	ONAL SERVICES	CONSTRUCTION (If applicable)
	Tulane Regional Biocontainment Labor	atory, Convington, LA			2009	2009
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		☑ Check if	project performed	with current firm
	Senior Mechanical Engineer. A 40,000 SI vaccines and diagnostics for emerging in necropsy suites; dedicated procedure room a cage processing facility.	F/ 3,716m biocontainme fectious diseases with B hs; BSL-3 laboratory spa	ent laboratory SL-3 non-hun ce; office and	funded by th nan primate a administratio	e NIH and focus and small animal on spaces; confer	sed on developing treatments, holding spaces; surgical and ence and training rooms; and,
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
	State of Maryland, Maryland New Publ	ic Health Laboratory, l	Baltimore,	PROFESSIO	NAL SERVICES	CONSTRUCTION (If applicable)
	MD				2011	2011
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE	1 1 11	Check if	project performed	I with current firm
	bringing jobs to East Baltimore while pr disease, epidemiology, environmental, and	osr/18,381 m2 laborator oviding state-of-the-art 1 l regulatory public health	laboratories fo support.	es public hea or testing, co	nn as a major ca nsulting, and reg	auyst for urban revitalization, gulatory support of infectious

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT						
12 N	() AME	Complete one Section	E for each k	ey person.)	14 V	
				A. TOTAL	B. WITH CURRENT FIRM	
Heat	ther Manganiello, PE	Utilities and Infrastru	ıcture		12	9
15. FI	RM NAME AND LOCATION (City and State)					
HDR	E Engineering, Inc.(<i>Ft. Lauderdale, GA</i>)					
MS	Environmental Engineering:		Professional	Engineer F	lorida Civil	N (State and Discipline)
BS, C	Civil & Environmental Engineering		1 Toressional	Eligineer, r		
18. O	THER PROFESSIONAL QUALIFICATIONS (Public	ations, Organizations, Traini	ng, Awards, etc.)		
				re		
	(1) TITLE AND LOCATION (City and State)	19. RELEVAN		3		
	(1) TITLE AND LOCATION (City and State)			DDOEESSI		
	Broward County Aviation Department Services, Terminal 4 Apron Civil Works	- General Engineering (s at FLL	Consulting	FROI LOOI	2012	
	(3) RRIEF DESCRIPTION (Brief score size cos			D Chock if	2013	Lwith current firm
	Utilities Engineer BCAD is implemente	ed an Airport Expansio	- n Program (4	AEP) which	includes the Ex	nansion of Runway 9R/27L
a.	a. Terminal 4 Gate Replacement, and Enabling Projects. The T-4 Apron Civil Works project will modify the existing airport terminal civil works and underground utility infrastructure, including apron and airside infrastructure and impacted landside utilities, and relocate security fencing and a guardhouse needed to enable the Terminal 4 Gate Replacement Project. The project will also replace the Terminal 4 Apron and expand the apron to the east. All proposed work will be completed while maintaining operations to the existing Terminal and Concourse. HDR provided preliminary engineering and final design services and is developing construction bid documents for the project. In addition, HDR is providing planning and design services for environmental restoration of contaminated sites in Project construction footprint. Services include existing infrastructure evaluations, design, construction cost estimating, construction phasing and sequencing, permitting services, and design coordination. In addition, HDR is overseeing multiple subconsultants who are performing specialized services such as Environmental restoration, Pavement analysis and design, and Stormwater and Drainage Design.					existing airport terminal civil utilities, and relocate security replace the Terminal 4 Apron to the existing Terminal and bid documents for the project. sites in Project construction tion phasing and sequencing, o are performing specialized gn.
	(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED					COMPLETED
	Turkey Point Power Plant Cooling Water Supply, Domestic Wastewater, Wetland Mitigation Engineering Services, Florida Power & Light, Miami- Dade County, FL		PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)	
			ght, Miami-		2003	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if project performed with current firm		
D.	b. Project Engineer. FPL has proposed to use reclaimed water from Miami Dade County's South District Wastewater Treatment Plan (SDWWTP) as the future cooling water supply for the Turkey Point Power Plant. HDR performed a reliability assessment that included a reliability model to determine the most vulnerable components of the supply system that would result in the loss of cooling water supply (reclaimed water). The information will be used to potentially correct the vulnerabilities and determine the need and quantity of back up cooling water supply. HDR provided preliminary engineering services and technical memorandum for an on-site domestic wastewate treatment plant (SWWTP) at the Turkey Point Power Plant. HDR investigated the treatment requirements and treatment technologie needed to obtain the necessary water quality for wetland hydration and provided the findings in a technical memorandum.					Wastewater Treatment Plant ity assessment that included a closs of cooling water supply need and quantity of back up on-site domestic wastewater s and treatment technologies morandum.
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
	Wastewater Master Plan Update, Altam	onte Springs, FL		PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)
	······		_		2003	N/A
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	I with current firm
	sewerage conveyance system to prepare stations, force mains, and interceptors le primary sewerage conveyance system, flo MOUSE modeling, emergency bypass/res	the City for upcoming C eading to 12.5 MGD C ow metering studies, ide ponse plans.	CMOM and C ity's regional ntification of	A a wastewater master plan update on the City's primary BASB34 compliance. The system consists of 73 public lift water reclamation facility. Team performed inventory of capacity limitations and vulnerabilities through the use of		
<u> </u>	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
	Reclaimed Water Treatment Facility Re	eclaimed Water Storage) FI	PROFESSI	ONAL SERVICES	CONSTRUCTION (If applicable)
	Improvements and Dramage Woullicati	on, Anamonic Springs,	rL		2009	N/A
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE		Check if	project performed	with current firm
Project Engineer and Assistant Project Manager. HDR evaluated the design and permitting and will provide post design services reclaimed water storage improvements and associated drainage system modifications at the Regional Water Reclamation Facility. assisted with the basis of design report. The reclaimed water storage pond will add approximately nine million gallons of reclaimed storage capacity. Heather evaluated permitting requirements and existing permit modification requirements.				e post design services for the Reclamation Facility. Heather on gallons of reclaimed water		

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT					
12. N	AME (13. ROLE IN THIS CONTR	RACT	ey person.)	14. Y	EARS EXPERIENCE
D */ 1	77 DE			A	. TOTAL	B. WITH CURRENT FIRM
Rit I	Ky, PE	Construction			9	2
15. F	IRM NAME AND LOCATION (City and State)					
HDF	R Engineering, Inc.(Ft. Lauderdale, GA)		1			
16. E	DUCATION (Degree and Specialization)		17. CURRENT	PROFESSIONAL RE	GISTRATIO	N (State and Discipline)
BS,	Civil Engineering		Professional	Engineer, Florida,	Cıvıl	
18. O	THER PROFESSIONAL QUALIFICATIONS (Public	cations, Organizations, Trainii	ng, Awards, etc.,)		
	I	19. RELEVAN	T PROJECT	S		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
	South Florida Water Management Dist	rict. Miami-Dade. Brow	ard and	PROFESSIONAL S	SERVICES	CONSTRUCTION (If applicable)
	Palm Beach County, FL			ongoing	Ş	2
	(3) BRIEF DESCRIPTION (Brief scope, size, cos	st, etc.) AND SPECIFIC ROLE		Check if projec	t performed	I with current firm
	Mr. Ky is managing various Construction, Engineering and Inspection Task Work Orders for a South Florida Water Management contract which involves the installation of Diesel Oxidation Catalysts, support structures and monitoring devices. Mr. Ky coordinates all field inspections with the Department's and Contractor's Project Manager to ensure all field work is inspected and in accordance with contract plans, specifications and shop drawings and documents all work and non-conformance items. Mr. Ky also performs reviews all daily work reports, project pictures and submittals and also verifies stockpiled materials.					
	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMPLETED		COMPLETED	
	FDOT District 4, Maintenance Production Manager, West Palm Beach, FL		PROFESSIONAL S	BERVICES	CONSTRUCTION (If applicable)	
			2012		N/A	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			Check if project	performed	with current firm
	Manage Maintenance activities and functions at the Palm Beach Operations Center including Permits, Roadway Characteristics Inventory (RCI), Maintenance Management System (MMS), Maintenance QA/QC, Risk/Restitution and Facilities Maintenance. Managed and supervised a staff of 13 ensuring targets and goals set in the Department's Business Plan are met.					
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
				PROFESSIONAL S	SERVICES	CONSTRUCTION (If applicable)
	FDOT District 4, Construction Project	Manager, Ft. Lauderda	le, FL	2011		N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cos	at, etc.) AND SPECIFIC ROLE		Check if project performed with current firm		
c. Construction Project Manager. Managed multiple concurrent roadway and bridge construction projects to ensure coordination betw FDOT, contractor, utility companies and the public, meet the set timeline and budget and minimize safety and congestion impact traveling public. Supervise and managed a team of Project Administrators, Inspectors and Consultant Staff to ensure all Projects are and covered accordingly.				sure coordination between the and congestion impacts to the ensure all Projects are staffed		
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETED
				PROFESSIONAL S	SERVICES	CONSTRUCTION (If applicable)
	FDOT District 4, Construction Project	Administrator, Ft. Laud	lerdale, FL	2010		N/A
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cos	st, etc.) AND SPECIFIC ROLE		Check if project	performed	with current firm
	Construction Project Administrator. Administered and managed roadway and bridge construction projects to ensure coordination between the FDOT, contractor, utility companies and the public, meet the set timeline and budget and minimize safety and congestion impacts to the traveling public.					

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TE QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not spec Complete one Section F for each project.)	AM'S cified.	20, EAF	1
21. TITLE AND LOCATION (City and State)		22. YEAR	COMPLETED
Broward County Aviation Department, General Engineering Consultant, Ft.	PROFESSIONAL SER	RVICES	CONSTRUCTION (If applicable)
Lauderdale, FL Or		g	Varies by assignment
23. PROJECT OWNER'S INFORMA	TION		

a. PROJECT OWNER	b. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER
Broward County Aviation Department	Marc Gambrill, P.E.	954-259-2343

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

The Fort Lauderdale-Hollywood International Airport (FLL) and North Perry Airport (HWO), a general aviation airport, form a diverse and dynamic airport system. This airport system serves the needs of over 23 million annual passengers and the general aviation community throughout South Florida. The two airports are monetarily self-supporting. We do not use any Broward County tax revenue to support the operations, maintenance, or capital improvements of the Airports. The Aviation Department generates funds through user fees, rentals, and other charges. Bonds, fees, and grants (state and federal) fund the capital improvement projects. Any surpluses are reinvested into the airport facilities.

FLL is ranked 21st in the U.S. in total passenger traffic and 13th in domestic origin and destination passengers. With more than 600 flights a day, FLL offers nonstop service to more than 60 U.S. cities and international service to Canada, the Bahamas, the Caribbean, Mexico, Latin American, and Europe.

The FLL Airport Improvements and Renovations Program (FLLAIR) include a new South Runway and expansion of the existing Terminal 4. The new South Runway will expand to 8,000 feet creating an estimated 11,000 construction jobs with a \$1.4 billion impact to the regional economy. Terminal 4 will expand from 10 to 14 gates and increase concession choices for passengers.

HDR is one of three teams providing general engineering services to support BCAD's current development programs via a five-year, \$9.3 million task order contract. HDR is leading a team of seven specialty subconsultants providing a wide variety of services primarily at FLL.

The range of projects includes environmental engineering services; airside infrastructure studies and improvements; safety, security and communication projects; tenant improvements; airport facility refurbishments and improvements; terminal development improvements; landside infrastructure studies; airport development; and airport capital project support.

Since being awarded the contract in 2009, the HDR team has been assigned nearly 30 task orders totaling over \$8M in fees. These projects have been very diverse in scope and size, and have included design, studies and investigations on both the airside and landside. HDR has worked closely with the FAA as well as numerous state and local regulatory and resource agencies having jurisdiction over the BCAD aviation facilities.

One of the strengths of the HDR team is its ability to take on all assignments that BCAD may need executed. With oversight from HDR's strong national aviation practice, we can provide any service or expertise from within our network of nearly 8,000 HDR professionals nationwide, or from one of the specialty subconsultant partners on our team.

In addition, HDR is very proud of its commitment to the utilization of Community and Disadvantaged Business Enterprises (CDBEs) under this contract with over 50% of the work performed in this program being subcontracted to it CDBE team members.

a. (1) Firm Name (2) FIRM LOCATION (City and State) (3) ROLE HDR Engineering, Inc. Ft. Lauderdale, FL Prime



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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		
21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED			
Ft. Lauderdale - Hollywood International Air	PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)		
Replacement, Ft. Lauderdale, Florida				2011	
23. PROJECT OWNER'S INFORMATION					
a. PROJECT OWNER b. POINT OF CONTACT NAME C. POINT		OF CONTA	CT TELEPHONE NUMBER		

Broward County Aviation Department	Marc Gambrill, P.E.	954-259-2343			
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)					

The HDR Team developed the design documents for two separate projects procured under one bid for repair and improvements at the passenger terminals at FLL. The soffits at Terminals 2, 3 and 4 had all been damaged by recent hurricanes and were funded for repair from a FEMA grant. BCAD also needed to extend the canopy at Terminal 4 to provide passenger cover at the departure level. Under a fast-track schedule, HDR developed Construction Documents (plans and specifications) including full architectural, structural, mechanical and civil site plans. A key component of the project included a comprehensive Maintenance of Traffic (MOT) Plan to manage pedestrian and vehicle access and flow during nighttime construction activities. HDR's scope included procurement assistance, construction contract administration, and resident project representation on the owner's behalf. The lowest responsive bid was well within the engineer's estimate and the project is scheduled to finish on time and within budget.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name	(2) FIRM LOCATION (City and State)	(3) ROLE	
	HDR Engineering, Inc.	Ft. Lauderdale, FL	Prime	



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.)				3	
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED				
Ft. Lauderdale - Hollywood Internationa	PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)		
Evaluation and Repair, Ft. Lauderdale, Fl	orida	2010		2011	
23. PROJECT OWNER'S INFORMATION					
a. PROJECT OWNER b. POINT OF CONTACT NAME		C. POINT	OF CONTA	CT TELEPHONE NUMBER	
Broward County Aviation Department Marc Gambrill, P.E. 954			259-2343	3	

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

The HDR Team was assigned the task of performing a forensic study to determine potential causes of the failure of new asphalt pavement which had been installed on Taxiway C at the Ft Lauderdale-Hollywood International Airport. Significant rutting was observed shortly after the new pavement was installed and the HDR Team was immediately called in to begin evaluating the pavement. HDR conducted a thorough review of the pavement design, quality of materials used, workmanship performed, quality control measures implemented during construction and material test results during construction. Based on this review, HDR issued a report which summarized the results of the forensic study and provided the probable cause of the failure. As part of this report, HDR also developed a range of repair alternatives and solutions and prepared detailed cost estimates to assist BCAD in determining a rehabilitation approach.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name	(2) FIRM LOCATION (City and State)	(3) ROLE	
	HDR Engineering, Inc.	Ft. Lauderdale, FL	Prime	



20 EXAMPLE PROJECT KEY NUMBER

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, EX <i>P</i>	4
21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED		
Ft. Lauderdale - Hollywood International Airport, Terminal 4 Apron Civil Works, Ft. Lauderdale, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)
		2010		2011
	23. PROJECT OWNER'S INFORMA	TION		
DECT OWNER	5 POINT OF CONTACT NAME	C POINT	OF CONTA	CT TEL EDUONE NUMPER

a. PROJECT OWNER	b. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER			
Broward County Aviation Department	Marc Gambrill, P.E.	954-259-2343			

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

The Terminal 4 (T-4) Apron Civil Works project is part of the overall Airport Expansion Program (AEP) currently underway at the Fort Lauderdale-Hollywood International Airport. This project will modify the existing airport terminal utility infrastructure and required to facilitate the Terminal 4 Gate Replacement Project. The project will require the rehabilitation of existing Taxilane Tango and the existing Terminal 4 Apron. The project will also expand the current apron area to the east allowing for additional gates and Remain Over Night (RON) parking. HDR performed the design of all airfield pavements utilizing the FAA FAARFIELD design software.

All proposed work will be completed while maintaining operations to the existing Terminal and Concourse. This required HDR to develop a detailed Construction Safety and Phasing Plan for submittal to and approval by the FAA and effected airlines. HDR also utilized 4D Visualization to provide a real life look at the project impacts and as a tool to refine the overall construction phasing plans with all affected stake holders.

HDR provided preliminary engineering and final design services and is currently developing construction bid documents for the project. In addition, HDR is providing planning and design services for environmental restoration of contaminated sites in Project construction footprint. HDR was responsible for the design of the stormwater management system and obtaining both and Environmental Resourse and Water Use Permit through the South Florida Water Management District. In addition, HDR is overseeing multiple subconsultants who are performing specialized services such as environmental restoration, environmental assessments, airfield electrical design and enhanced airport/airfield security.



	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT						
a.	(1) Firm Name	(2) FIRM LOCATION (City and State)	(3) ROLE				
	HDR Engineering, Inc.	Ft. Lauderdale, FL	Prime				



F. EXAMPLE PROJECTS WHIC	20, EXAMPLE PROJECT KEY NUMBER				
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.)				5	
21. TITLE AND LOCATION (City and State)			22. YEAR COMPLETED		
Non-Motorized Intersection Improvement	PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)		
Bridge Conceptual Study Columbia, Missouri		2010		N/A	
	23. PROJECT OWNER'S INFORMA	TION			
a PROJECT OWNER	b POINT OF CONTACT NAME	C POINT	OF CONTA	ACT TELEPHONE NUMBER	

(373) 442-7109 X.23					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)					
FHWA's Non-Motorized Transportation Pilot Progra					
n					

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ogram. Columbia is one of only four cities in the country tapped to participate in this national program, which is aimed at improving safety and fairness for individuals engaged in non-motorized transportation.

HDR is the lead consultant on this project, which to date has involved the following tasks:

The design of improvements at three initial intersections, considered "low-hanging fruit" where non-motorized improvements can be made fairly simply. Improvements include high-visibility crosswalks, countdown pedestrian signalization, safer low-speed right-turn channelizing islands, pedestrian tables, bicycle lanes, colored paint treatments, additional medians, landscaping and amenities for a trail head, and bicycle detection. Some of these improvements had already been considered based on stakeholder involvement.



The conceptual design of improvements at another five intersections considered to need more complex solutions. HDR facilitated additional stakeholder involvement to assist with the design of improvements at these intersections. This effort has lead to a recent project to design two of the five intersections based on public input and available funds.

The design of eight miles of trail improvements on various segments in the southern portion of the City. Projects range from completely new trail segments, to multi-use paths adjacent to roadways, to upgrades to existing unpaved trail facilities.

Wilson Trail Bridge

As part of this project, HDR prepared a conceptual study with exhibits and recommendations for a pedestrian crossing over the Hinkson Creek in Columbia. The study included widening the existing Forum Street Roadway Bridge over Hinkson Creek for a shared use shoulder for bicycle and pedestrian traffic. In addition, several separate crossing locations near the existing Forum Street Bridge were investigated for pre-manufactured pedestrian bridge superstructures as well as the approach trails to the crossing. The structure and span lengths varied depending upon the stream crossing locations. The study also included preliminary bridge hydraulic analysis and preliminary construction cost estimates. The City of Columbia will select a preferred alternative and HDR will perform the final design.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name	(2) FIRM LOCATION (City and State)	(3) ROLE
	HDR Engineering, Inc.	Ft. Lauderdale, FL	Prime

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

6

21. TITLE AND LOCATION (City and State)			22. YEAR COMPLETED		
John F. Kennedy International Airport – Electrical and Engineering Design			SIONAL SERVICES	CONSTRUCTION (If applicable)	
			2010	Pending	
23. PROJECT OWNER'S INFORMATION					
a. PROJECT OWNER	b. POINT OF CONTACT NAME		C. POINT OF CONTA	CT TELEPHONE NUMBER	
Port Authority of New York and New	Eduard Fayfman		973-792-4428	3	

Jersey

this larger aircraft.

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) HDR has performed the electrical design and engineering for over \$10 million worth of rehabilitation with a large portion of this work being for the redesign of the inner geometry of the airport for the arrival of the new Airbus 380. This jet is almost 1-1/2 times the size of a 747 with four aisles, a two-deck seating capacity for 555 people, five-course meals and a sit-down bar in the lounge. To

date, only 10 airports in the United States are expanding their facilities to handle

PANYNJ, Taxiway A and NC Rehabilitation at John F. Kennedy International Airport, Queens NY

This project required a field survey of existing taxiway conditions and electrical rooms, lighting and guidance signs. Project entailed the design of the airside navigational lighting aides for the taxiway areas on the Rehabilitation of Taxiway A and NC to accommodate the Airbus 380 for 1,000 feet of taxiway area. Work efforts were demolition of existing taxiway centerline lighting system on primary wiring and design of new taxiway centerline lighting system using primary wiring according to new civil paving plans using the FAA approved spacing for clearance bars for a modified Group VI rating of the airfield. Work efforts also included a

continued modification to the switch house for re-circuiting all power feeds for the taxiway lights to establish a uniform grid along with upgrading the required regulators according to electrical calculations and construction support with final 'As Built' documentation.

PANYNJ, Rehabilitation of Taxiway Bridges at John F. Kennedy International Airport, Queens, NY

This project required a field survey of five existing bridges of which four were taxiway bridges. The work completed includes taxiway lighting, and guidance sign revisions according to new civil taxiway layout and bridge replacement from structural bridge plans according to FAA requirements, electrical calculations of regulator distribution, switch house equipment study, upgrade/replacement and construction support with final 'As Built' documentation.

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT					
a.	(1) Firm Name	(2) FIRM LOCATION (City and State)	(3) ROLE			
	HDR Engineering, Inc.	Ft. Lauderdale, FL	Prime			
	·					


F. EXAMPLE PROJECTS WHICH	BEST ILLUSTRATE PROPOSED TEAM'S
QUALIFICATION	IS FOR THIS CONTRACT
(Present as many projects as requeste	d by the agency, or 10 projects, if not specified.

Complete one Section F for each project.)

20, EXAMPLE PROJECT KEY NUMBER

7

2008

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)
Sky Harbor International Airport Program Management, Phoenix, AZ	2005	2008

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER
City of Phoenix Aviation Department	Jane Morris	480-988-7600

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

Phoenix Sky Harbor is one of the fastest growing airports in the nation, currently processing approximately 35 million passengers per year. Expecting that number to rise to 51 million, the City of Phoenix Aviation Department recognized the need for a new terminal. HDR provided program management services, serving as an extension of the city's aviation department. This included project leadership and engineering support in roadway, traffic modeling, utilities, drainage, environmental support and airspace planning. The team also established programming guidelines and oversaw project schedules and design and cost estimates, assisted with RFP development and took part in the design selection process.



Specific outcomes of the project will include a new 33-gate passenger terminal and new parking structures. After HDR became involved in the program management, an Automated People Mover (APM) was added to the grand vision to serve all key airport facilities and connect to the Valley Metro Light Rail Transit System. HDR continues to provide program management for the APM program. At an estimated total project cost of \$1-2 billion, each of these project components, upon the estimated 2011 completion date, will result in a greater level of efficiency in Phoenix air transportation and the ability to meet projected passenger demands.

Sky Harbor Taxiway S Bridge. As a major subconsultant to the Kiewit Western/Dibble & Associates team, HDR provided structural design management and engineering services for the reconstruction of Taxiway "S" from asphalt to concrete and the addition of a multi-span Taxiway "S" Bridge across Sky Harbor Boulevard at Phoenix Sky Harbor International Airport. The components of the design-build project consist of demolition of three short-span existing taxiway bridges; a new five-span taxiway bridge to accommodate Group V aircraft (wingspan between 171 and 214 feet); all roadway and on-grade under-bridge improvements and modifications to accommodate the project; and provisions to accommodate a future automated people mover to tunnel under the taxiway without disruption to the taxiway.

Additional components addressed by the team include taxiway reconstruction; apron infill; infield pavement; lighting, signing and striping; airport service roads and traffic control; grading, drainage and utilities.

Automated Train/West Terminal. HDR was the major subconsultant retained by the Aviation Department to provide program management services for a new terminal and Automated Train. We provided key personnel to serve as an extension of the Aviation staff to help lead activities, including development of a document control system, a contract management process, a program master schedule and budget, and the procurement process for the train designers. We had a leadership role in the development of consultant scopes, contracts, and fees, and were responsible for review and approval of QA/QC programs. HDR staff was a key member of a group to reassess the Automated Train program, which resulted in the current project and is projected to save the City of Phoenix over \$300 million. HDR, in addition to developing project budgets and schedules, plays a major role in the management of the design teams currently working on this project.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT (1) Firm Name (2) FIRM LOCATION (City and State) (3) ROLE a. HDR Engineering, Inc. West Palm Beach, FL Prime



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

9

21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED			
Greater Orlando Aviation Authority, Transportation Planning Consulting	PROFESSIONAL SERVICES CONS		CONSTRUCTION (If applicable)	
Services, Orlando, FL	2016		N/A	
23. PROJECT OWNER'S INFORMATION				

a. PROJECT OWNER	b. POINT OF CONTACT NAME	C. POINT OF CONTACT TELEPHONE NUMBER	
Greater Orlando Aviation Authority	Brad Friel, AICP	407-825-3139	

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

 Services Provided Annual Traffic Counts Bear Road Conceptual Alignment Alternatives Development Review Model Update and White Paper Cargo Road/ Hangar Blvd. Traffic Study Return Ramp Closure Cargo Road/ Hangar Blvd. Signal Warrant Analysis Cargo Road/ Casa Verde Rd. Signal Design OIA Sub-area Model OIA Intermodal Development Public Agency Technical Support Rental Car Planning Book Pre-DRI Issues South Terminal Traffic Analysis Roadway Planning Book Airport Route Signage EmployeeTDM Survey 	HDR has served the GOAA since 1995 as the primary Transportation Planning Consultant. During the past Thirteen (13) years and two (2) General Services contracts, HDR has served as an extension of staff, addressing on-site and off-site transportation issues, working with other GOAA consultants, and providing coordination among the numerous local governments and agencies that participate in their decision-making process. Specific projects include: Return Ramp Closure. Develop engineering plans for temporary closures of Terminals A and B return	
EmployeeTDM SurveyNorth & South Terminal Re-evaluation	closures of Terminals A and B return ramps.	

Cargo Road/ Hangar Blvd. Signal Warrant Analysis. Signal warrant analysis considering existing plus projected future traffic based on land use plan at intersection.

South Terminal Traffic Analysis. Support terminal design teams by determining surface transportation access and circulation requirements.

Airport Route Signage. Prepare an inventory of signs routing drivers to Orlando International Airport, Sanford-Orlando International Airport and Orlando Executive Airport.

North & South Terminal Re-evaluation. Conduct studies to re-assess the capacities and projected demand for the surface transportation system serving the North Terminal and the proposed South Terminal.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) Firm Name	(2) FIRM LOCATION (City and State)	(3) ROLE
	HDR Engineering, Inc.	West Palm Beach, FL	Prime



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S				AMPLE PROJECT KEY NUMBER	
(Present as many projects as requeste Complete one Se	d by the agency, or 10 projects, if not specetion F for each project.)	cified.		10	
21. TITLE AND LOCATION (City and State)			22. YEAR	22. YEAR COMPLETED	
		PROFESSIO	NAL SERVICES	CONSTRUCTION (If applicable)	
Master Planning for Alaska Airports, Alaska		Ongoing		N/A	
	23. PROJECT OWNER'S INFORMA	TION			
a. PROJECT OWNER	b. POINT OF CONTACT NAME	(C. POINT OF CONT.	ACT TELEPHONE NUMBER	
Alaska Department of Transportation and Public Facilities	Judy Chapman, Transportation Planner (907) 269-0519				
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)					
In rugged areas of Alaska, airports are lifelin percent of Alaska's citizens have no access t as their primary transportation. We provide services for many of the 264 airports owned	es to the rest of the world. Thirty o the road system and rely on air master planning and design by the Alaska Department of				

We produce airport master plans according to FAA safety standards to guide improvements at general aviation airports for 20-year planning horizons. Our services include conditions and need surveys, facility inventories, demand forecasts, airport capacity and delay analysis, environmental assessment, base mapping, Airport Layout and Property Plans (ALPs and APPs), public involvement and agency coordination.

Transportation and Public Facilities.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) Firm Name	(2) FIRM LOCATION (City and State)	(3) ROLE
	HDR Engineering, Inc.	West Palm Beach, FL	Prime



F. EXAMPLE PROJECTS WHICH QUALIFICATION (Present as many projects as requested Complete one Se	BEST ILLUSTRATE PROPOSED TE S FOR THIS CONTRACT <i>d by the agency, or 10 projects, if not spec</i> <i>ection F for each project.)</i>	C AM'S cified.	20, 24	10
21. TITLE AND LOCATION (City and State)			22. YEA	R COMPLETED
Pacific Air Forces (PACAF) Aeronautical Stud Mariana Islands	y, Commonwealth of Northern	PROFESSIONAL SERVICES 2012		CONSTRUCTION (If applicable)
	23. PROJECT OWNER'S INFORMA	TION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME		C. POINT OF CON	FACT TELEPHONE NUMBER
Air Force Center for Engineering and the Environment (AFCEE)	Mr. Bernard Marcos		808-448-973	34
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE	TO THIS CONTRACT (Include scope, size, and co	st)		
Air Force Center for Engineering and the Environment (AFCEE) 808-448-9734 24. BREF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) HDR was tasked by the Air Force Center for Engineering and Environment (AFCEE) and Pacific Air Force (PACAF) to conduct an Aeronautical Study (AS) in accordance with Federal Aviation Administration (FAA) regulation FAA JO 7400.2). This AS determined impact of proposed construction to airport operations at Saipan International Airport and/or Tinian Airport. HDR obtained, analyzed, and summarized available airspace planning data to determine the effect of PACAF's proposal on current and projected air traffic and airfield utilization, including the feasibility of the proposal to use established installations, and related airspace for stand-alone and joint-use commercial or general aviation activities. The completed study consisted of an airspace analysis, a flight safety review and a review and determination on potential effects on air traffic control and airfield operations. The Aeronautical Study Report providing the following items: (a) An overview of the existing airspace structure, airports, and types and volume of aeronautical activities currently operating in the airspace affected by the proposal. (b) Impact on Terminal Operations which included an analysis of the arrival and departure flows; standard instrument approach procedures; and aircraft based at the airport; amount of daily operations; and the proposal's affects on airport access, capacity, and operations. (d) Impact on IFR En Route Operations which included existing airways; Average daily traffic count on affected airways; Feasibility of airway realignment; and Direct IFR routings. (e) Impact on other pending proposals such as airport development plans, airspace or airway/route proposals, or instrument procedures, currently being processed or on file. (f) LFAB Part 72 Obstruction Analysis				

alternatives/mitigations when adverse aeronautical impacts are identified. (h) FAA's air traffic control facility's assessment of the proposal's impact on aeronautical and facility operations, and the facility's concurrence or non-concurrence with the proposal. And (i) Provided recommendations for AFCEE action on the proposal.

HDR was specifically sought out for this work because of extensive knowledge of airspace management and our strong working relationships within the Department of Defense and Federal Aviation Administration. This aeronautical study was developed in response to a request from the Federal Aviation Administration 2 (FAA) to the United States Air Force (USAF) Pacific Air Forces (PACAF) as part of the ongoing 3 development of the PACAF Divert Activities and Exercises Guam and Commonwealth of the Northern 4 Mariana Islands (CNMI) planning efforts (Divert). The Aeronautical Study was utilized to support PACAF's land acquisition on Saipan International and/or Tinian Airport for the establishment of a divert airfield in the Pacific. The analysis has identified significant issues on Saipan and Tinian that had been previously overlooked by PACAF and provided alternatives/mitigations acceptable to PACAF, FAA and Commonwealth Port Authority to ensure completion. HDR's specialized understanding of air space, air traffic control, and airfield requirements, both DoD and FAA provided critical solutions required by DOD decisionmakers.

Customer Satisfaction. The success of this study to date was the result of a cooperative and team effort between AFCEE, PACAF, FAA and HDR that emphasized listening to stakeholders, an understanding and development of the mission requirements needed to support the ultimate users.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	a. (1) Firm Name (2) FIRM LOCATION (City and State) (3) ROLE		
	HDR Engineering, Inc.	Ft. Lauderdale, FL	Prime

20 EXAMPLE PROJECT KEY NUMBER

26. NAMES OF KEY PERSONNEL (From Section E,	(Fill i	n "Exam under	28. EXA ple Proje project k	MPLE P ects Key" ey numb	PROJEC section er for pa	FS LISTE below be rticipatio	D IN SE fore com n in same	CTION F pleting ta e or simil	ON F ing table. Place "X" similar role.)							
BIOCK 12)	BIOCK 13)	1	2	3	4	5	6	7	8	9	10					
John Neff, PE	Project Manager	Х	Х	Х	Х											
Tim Fish, PE	Aviation Planning Lead	Х	Х	Х	Х											
Chuck Sinclair, PE	Project Principal	х	X	Х	X											
Mark Dikun	Airside Lighting & Signage						Х									
Will Suero, PE	Roadway and Public Involvement	Х		Х												
Daryl Schneider, PE	Aviation Planning	х			X											
Jamie Krzeminiski, PE, PTOE	Transportation Planning					Х		Х	Х							
BJ Skar, PE	Airfield Pavement	Х		Х						Х						
Steve Lewis, AIA	Architectural Facilities Design	Х	Х													
John McPherson	Airport Master Planning							Х		Х						
Eric Cleveland	Airspace Analysis										Х					
Melanie Fowler, PE	Quality Control Program	Х	Х		Х											
Steve Tozer, AIA	Architectural Facilities Design	Х	Х		Х											
Joshua Salazar, PE	Roadway and Public Involvement															
Abbie Wilson, PE	Stormwater Management	Х			Х											
Pedro Loureiro, PE	Structural	Х														
Bill Zavatkay, PE, LEED AP	MEP															
Heather Manganiello. PE	Utilities & Infrastructure															
Rit Ky, PE	Construction															

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

29. EXAMPLE PROJECTS KEY

No	Title of Example Project (from Section F)	No	Title of Example Project (from Section F)
1	Broward County Aviation Department (BCAD) - General Engineering Consultant (GEC)	6	Newark Liberty International Airport Lighting Services, Newark, NJ
2	BCAD GEC – Curbside Canopy & Soffit Replacement	7	Phoenix Sky Harbor International Airport Program Management
3	BCAD GEC – Taxiway C Pavement Evaluation and Repair	8	Greater Orlando Aviation Authority, Transportation Planning Consulting Services
4	BCAD GEC – Terminal 4 Apron Civil Works	9	Alaska Department of Transportation, Master Planning for Alaska Airports
5	Non-Motorized Intersection Improvements, Trail Design and Wilson Trail Bridge Conceptual Study	10	Pacific Air Forces (PACAF) Aeronautical Study

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H. ADDITIONAL INFORMATION

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

I. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.

31. SIGNATURE

02/12/2014

33. NAME AND TITLE Charles T. Sinclair, PE, Senior Vice President

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32. DATE

EXHIBIT 3 14-0577 Page 78 of 178

Α	ARCHITECT-ENGINEER QUALIFICATIONS			6	1. SOLICITATION NUMBER (If any) 946-11333				
		P				CATIONS			
	(If a firm	has branch	n offices. co	mplete for e	each specifi	c branch office seeking work.)		
2a. FIRM (or	branch office) NAME			,	,	3. YEAR ESTABLISHED	4. DUNS NUMBE	R	
HDR End	aineerina. Inc.					2009	Pending		
2h STREET							rending		
3250 We	est Commercial Blvd. Suit	e 100				a TYPE			
2c. CITY	2c. CITY 2d. STATE 2e. ZIP COD			ZIP CODE		Private Corporation			
Ft. Laude	erdale	FL	33	3309		b. SMALL BUSINESS STATUS			
6a. POINT C	OF CONTACT NAME AND TITLE					Large Business			
Chuck Si	inclair, Area Manager								
6b. TELEPH	ONE NUMBER 6c. E-M	AIL ADDRES	SS						
305.728.	7400 Chuc	k.Sinclair	@hdrinc.	com		HDR, IIIC.			
8a. FORM	ER FIRM NAME(S) (if any)					8b. YR. ESTABLISHED	8c. DUNS NU	IMBER	
Hennings	on, Durham & Richardson, I	nc.		1951					
Hennings	on Engineering Company, I	nc.		1930		1985	06-866	-8805	
Hennings	on Engineering Company		<u> </u>	1917				· ·	
					1(). PROFILE OF FIRM'S EXP	ERIENCE AND	_	
	9. EMPLOYEES BY DISCI	PLINE			ANNU	JAL AVERAGE REVENUE FO	OR LAST 5 YEAF	<u>rs</u>	
a. Function	b. Discipline	c. No. of	employees (2)	a. Profile		b. Experience		c. Revenue Index Number	
code		(1) FIRM	BRANCH	Code				(see below)	
02	Administrative	820	4	A04	Air Pollut	on Control		3	
08	CADD Technician	571	3	A06	Airports;	Terminals & Hangers; Freigh	it Handling	7	
12	Civil Engineer	676	5	B02	Bridges 10				
15	Construction Inspector	238	8	C15	Construction Management 10				
16	Construction Manager	216	3	D01	Dams; (Concrete; Arch) 5				
39	Landscape Architect	38	1	D02	Dams; (Earth; Rock); Dikes; Levees 8				
44	Oceanographer	2	1	E09	Impact Studies, Assessments, or Statements IU Enviro. Impact Studies, Assessments, or Statements 10				
4/	Planner: Urban/Regional	221	1	E12	Environmental Remediation 10				
5/	Structural Engineer	254		H07	Highways	S: Streets; Alffield Paving; Pa	IKING LOIS	10 F	
58	Technician/Analyst	1,150	8 1F		Dianning	Buildings; Manufacturing Pla	anis +)	5	
60	Mater Deseurees Engineer	745	15	PU0	Planning Dowor C	(Sile, Installation, and Project	i) tribution	8 10	
02	Public Polations	240	1		Power Ge	Danid Transit		10	
99	PUDIC REIALIONS	400	I	RU3 D11	Ralli Uau:	Rapiu Halisii anals: Waterways: Flood Co	ntrol	10 7	
				S04		Collection: Treatment and Di	sposal	10	
				S04		stas: Incineration: Landfill	spusai	0	
				S10	Surveving	a: Platting: Manning: Flood P	lain Studies	6	
				S13	Storm Wa	ater Handling & Facilities		7	
				T02	Testing &	Inspection Services		7	
				T03	Traffic &	Transportation Engineering		10	
		1		W02	Water Re	sources; Hydroloav: Ground	Water	9	
	Other Employees	2951		W03	Water Su	pply; Treatment and Distribu	tion	10	
	Total	8578	52						
11. ANN	IUAL AVERAGE PROFESSION	IAL						•	
SEF	RVICES REVENUES OF FIRM			PRU	FESSIONA	L SERVICES REVENUE INI			
	FOR LAST 3 YEARS		1. Less th	an \$100,0	00	6. \$2 mill	ion to less than	\$5 million	
(insert rev	venue index number shown at r	right)	2. \$100,00	00 to less	than \$250,	000 7. \$5 mill	ion to less than	\$10 million	
a. Federal W	/ork 6		3. \$250,00	00 to less	than \$500,	000 8. \$10 mi	llion to less tha	n \$25 million	
b. Non-Fede	ral Work 10		4. \$500,00	00 to less	than \$1 mi	Ilion 9. \$25 mi	llion to less tha	n \$50 million	
c. Total Worl	к 10		5. \$1 millio	on to less	than \$2 mi	10. \$50 n	nillion or greate	r	
			The fore		EPRESEN				
a. SIGNATU	RE		THE IDLE	yoniy is a s	satement O	10010.	b	. DATE	
02/12/2014						12/2014			
c. NAME AN	ID TITLE						02/	,	
Charles	T. Sinclair, PE, Senior Vie	ce Presid	ent						

AUTHORIZED FOR LOCAL REPRODUCTION MANDATORY USE DATE OF FORM 5/1/2004

	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	4. YEARS EXPERIENCE			
12.	James A. Kriss, P.E.	Quality Assurance / Qua	lity Control	a. TOTAL 39	b. WITH CURRENT FIRM 25			
15.	FIRM NAME AND LOCATION (City and State) AVCON, INC., Orlando, Florida							
16.	EDUCATION (Degree and Specialization) MBA, 1990; B.S. Civil Engineering, 1974	17. CUR Pro GA,	RENT PROFESSIONAL R Sessional Engineer TX, NC, OH, LA	EGISTRATIO	ON (State and Discipline) , TN, OK, NY, NV, KY,			
18.	Mr. Kriss is a senior principal of AVCON, INC. of Orlando, Florida. As a principal and senior project manager with AVCON, he is responsible for marketing, client management and technical design issues associated with all aspects of studies, designs and project management tasks for airport and aviation related projects; transportation and civil engineering design and planning support; construction applications and management services; and all supporting service areas for the entire array of the AVCON service sectors. Jim has been involved with dozens of different clients in the U.S. and abroad over the past thirty-eight years. His experience includes all facets of aviation, pavements, utilities, construction, cost estimating, and project management.							
		19. RELEVANT PROJEC	ſS					
	(1) TITLE AND LOCATION (City and State) Rehabilitation of Runway 7-25, Herlong Jacksonville, FL	g Recreational Airport,	PROFESSIONAL SEF	(2) YEAR CO RVICES	DMPLETED CONSTRUCTION (If Applicable) 2008			
а	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) /	AND SPECIFIC ROLE	Check if project pe	Check if project performed with current firm				
	This work comprised the complete planning, the airport's primary runway. The work inclu overlay, and P-401 SuperPave [™] asphalt c Reviewer.	funding and grant support, des uded evaluation of a variety o oncrete. The work also incorp	sign and constructior f techniques includi porated new airfield	n phase se ng cold-in markings	ervices for rehabilitation of I-place recycling, mill and s. Jim served as QA/QC			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CO	OMPLETED			
	Rehabilitation of Taxiway A and C, Oke Okeechobee, FL	echobee County Airport,	PROFESSIONAL SEF	RVICES	CONSTRUCTION (If Applicable) 2011			
b	b (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Check if project performed with current firm Project consisted of Rehabilitation of Taxiway A and C, the primary taxiways for OBE. The design work incorporated is pavement design (mill and overlay and new construction); new geometric upgrades; complete replacement of airfield lighting signage; complete specifications and document preparation; bidding and construction phase services. Jim served as Principa Charge.				n current firm n work incorporated new lent of airfield lighting and lim served as Principal-in-			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CO	OMPLETED			
	Master Plan, Herlong Airport, Jackson	VIIIE, FL	PROFESSIONAL SEF 1999-2001	RVICES	CONSTRUCTION (If Applicable) N/A			
с	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.)	AND SPECIFIC ROLE	Check if project performed with current firm					
	Some of the proposed general airport improv paved runways, the maximization of aviation delineation of a helicopter activity area, an forecasts, facility requirements, and a prioritiz	rement concepts included the c related development north of 7 and the development of a pub zed Capital Improvement Progr	levelopment of a turl axiway A, the identi lic observation area am (CIP). Jim serve	f runway to ification of a. Plann ed as Avia	o complement the existing a sky-dive drop zone, the ing components included ition Planner.			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CO	OMPLETED			
	Rehabilitation of Runway 5-23 and Enh Okeechobee County Airport, Okeechol	iancing Runway Safety Area, bee County, FL	PROFESSIONAL SEF	RVICES	CONSTRUCTION (If Applicable) 2009			
d	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE	Check if project pe	erformed with	n current firm			
	This project comprised the milling and overla and OFA obstruction removal, re-grading and	ay of the main runway. The w d relocation of perimeter fencin	ork incorporated co g. Jim served as Pri	rrection to incipal-in-(the Runway Safety Area Charge.			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CO	OMPLETED			
	Construction of Alternate Runway 15R International Airport, Lake Charles, LA	-33L, Chennault	PROFESSIONAL SEF 2011-On-going	RVICES	CONSTRUCTION (If Applicable) On-going			
е	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) / This project consists of rehabilitating existing one-runway airport. The primary work inclu lim serves as Program Director	AND SPECIFIC ROLE Taxiway A and converting the des widening the Taxiway to ?	Check if project po taxiway into a new 50 feet, and establ	erformed with Alternate ishing RS	n current firm Runway for this otherwise A and ROFA compliance.			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CO				
	Airside PCC Apron and Taxiway Pavin New Boeing Final Assembly Facility, C	g Design, harleston, SC	PROFESSIONAL SEF	RVICES	CONSTRUCTION (If Applicable) 2011			
f	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) /	AND SPECIFIC ROLE	Check if project pe	erformed with	n current firm			
	The planning phase of the project included of plan for the proposed Boeing Final Assemb facilities, delivery center, and aircraft loadin paving and coordination.	levelopment of future land use ly Building site. The design ph g positions for the B747 Drea	height restrictions a lases included pave mlifter. Mr. Kriss se	nd coordin ment area rved as P	nation of the development a designs of the flight line Project Manager of airside			

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT							
12.	NAME	13. ROLE IN THIS CONTRAC	СТ		14	4. YEARS EXPERIENCE		
	Russ Holliday, P.E.	Project Engineer			a. TOTAL 21	b. WITH CURRENT FIRM 2		
15.	FIRM NAME AND LOCATION (City and State) AVCON, INC., Orlando, Florida							
16.	EDUCATION (Degree and Specialization) M.S. Civil Engineering, 1998; B.S. Civil Eng	jineering, 1992	CURRE Profe	ENT PROFESSIONAL R ESSIONAL Engineer	EGISTRATIO	ON (State and Discipline)		
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications Mr. Holliday has nearly 21 years of industry Airports in Florida and the southeast U.S. In industry standard design software packages consists solely of engineering design and pri coordination, water and sanitary sewer design services, construction administration, residen with State Water Management Districts, FDO	s, Organizations, Training, Award experience and has over Mr. Holliday performs en in conjunction with curr oject management on ai n, drainage design, and t project representative, a T Division of Ports and Ai	ds, etc.) erseen gineerii ent sta rports, paveme and pro rports, s	several recent, rele ng design utilizing ndards and scienti including all phase ent design, cost est oject close out. He and Federal Aviatio	evant proj AutoCAD fic metho s of proje imation, t has exte n Adminis	ects for General Aviation , Civil 3D, and other civil ds. His work experience ects from geometry, utility bidding, DBE coordination nsive experience working stration personnel.		
		19. RELEVANT PRO	JECT	5				
	(1) THE AND LOCATION (City and State) Rehabilitation of Airfield Lighting Vaul 30 MIRL, Witham Field, Martin County	t and Signage, Runway Airport, Stuart, FL	12-	PROFESSIONAL SER 2011-2013	2) YEAR CC	CONSTRUCTION (If Applicable) 2013		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.)	AND SPECIFIC ROLE		Check if project pe	erformed with	n current firm		
As part of the airport's strategy to upgrade its facilities to comply with FAA design criteria, AVCON provided design as construction phase services to enhance the airfield lighting vault, upgrade and replace airfield signage, and replace the Runw 12-30 Medium Intensity Runway Lighting (MIRL) using LED technology. The signage was designed to comply with the latest FA signage design criteria. The Vault work provided a modernization of the existing lighting vault, and the Runway 12-30 MIRL projecorrected spacing among the lights per FAA criteria, along with new transformers and base cans. Russ served as Project Engine – Design and Construction Phase Services.					ON provided design and and replace the Runway omply with the latest FAA unway 12-30 MIRL project erved as Project Engineer			
	(1) TITLE AND LOCATION (City and State)	avement on Taxiway Ad		(2) YEAR CC	DMPLETED		
	Witham Field, Martin County Airport, S	avement on Taxiway A1 Stuart, FL	,	PROFESSIONAL SER 2011	VICES	CONSTRUCTION (If Applicable) 2012		
b	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AVCON was enlisted to provide emergency hazard to taxiing aircraft. The project entailed plan; and assist the Airport with overseeing Construction Phase Services.	AND SPECIFIC ROLE engineering services to ed immediate response to g a Contractor to repair	repair a b exami the are	Check if project pe a 150' x 50' portion ine the area with co ea. Russ served a	of Taxiw of Taxiw ores; prov as Projec	a current firm ay A1 that had become a ride a single sheet design t Engineer – Design and		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CO	OMPLETED		
	Runway 5-23 Rehabilitation, Okeechob Okeechobee, FL	bee County Airport,		PROFESSIONAL SER 2004-2007	VICES	CONSTRUCTION (If Applicable) 2007		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.)	AND SPECIFIC ROLE		Check if project pe	erformed with	n current firm		
С	AVCON was assigned the project to rehabilitate Runway 5-23. AVCON performed an in-depth review of the historical construction records of the runway in an attempt to identify and quantify the strength capabilities of the base course material. AVCON's professional services included virtually all of the design and testing services required to complete the Runway 5-23 Rehabilitation Project. Along with the overall project paving work, the project also included new Medium Intensity Runway Lighting (MIRL) and relocation of fencing and drainage channels to achieve full compliance with FAA Part 77 surfaces, including RSA and ROFA clearances. Throughout the development of the project, the design team and airport management worked diligently with the FAA and FDOT to identify sufficient funding to accomplish the actual construction of the project. Russ served as Project Engineer – Construction Phase Services							
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CC	DMPLETED		
	Kissimmee Gateway Airport, Kissimme	ee, FL		PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable) 2013		
d	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) / This project consisted of construction of 10,0 The work included pre-engineered metal b balcony; fire protection; electrical; mechanica system; and complete site work including as septic system. Russ served as Project Mana	AND SPECIFIC ROLE 000 SF NFPA 409 Group uilding including hangar al and plumbing systems phalt parking lot/access, ager.	III Airc and of ; comp PCC si	Check if project per raft Storage Hanga fice spaces; main onents, cladding, a dewalks, ramps, m	rformed with r and 6,00 balcony; nd glazing arking, po	o current firm 00 SF Supporting Offices. hangar catwalk and rear g systems; access control table water/fire main, and		
	(1) TITLE AND LOCATION (City and State) Runway 6-24 Rehabilitation and Relate	d Work, Kissimmee		PROFESSIONAL SER	2) YEAR CO VICES	OMPLETED CONSTRUCTION (If		
	Gateway Airport, Kissimmee, FL			2012-2014		Applicable) On-going		
е	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.)	AND SPECIFIC ROLE		Check if project pe	erformed with	n current firm		
	Project included the design and construction included removal of WWII era concrete ha system, PAPI-4 units on both runway ends a 150 feet to 100 feet with non-precision marki	n phase services for a ma rdstands, construction of nd new supplemental win ng standards. Russ serve	ajor pav f new p id cone ed as P	vement rehabilitatio pavement, new bla s. Project incorpora roject Manager.	n of Runv st pad, a ated reduc	way 6-24. Work elements II new LED MIRL lighting sing the runway width from		

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)							
12.		13. ROLE IN THIS CONT		nin oor	14. 2 TOTAL	. YEARS EXPERIENCE		
	Dr. Robert Boyer, Ph.D., P.E.	Pavement Cons	suitant Eng	gineer	50	10		
15.	FIRM NAME AND LOCATION (City and State) AVCON, INC., Orlando, FL							
16.	EDUCATION (Degree and Specialization) PhD CE Highway and Airport Pavement, 19 Mechanics, 1963; BSAE Soil Structures, 19	72; BSCE Soil 61	17. CURRE Profe	INT PROFESSIONAL R ssional Engineer	EGISTRATIO – FL	N (State and Discipline)		
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications	, Organizations, Training, A	wards, etc.)	in a the states of t				
	Dr. Bob Boyer is the former Asphalt Institute position he held from 1988 to his retirement. design, construction, maintenance and repair, and has published more than 30 technical pai on asphalt paving issues.	Senior District Enginetric Enginetria Enginetria Enginetria Enginetria Enginetria Eng	neer cover special co le is a regi and aspha	ing the states of A phsultant to AVCO istered Professiona alt industry. Dr. Bo	Alabama, F N for asph Il Engineer oyer regula	-lorida, and Georgia – a ialt pavement inspection, r in Florida and Kentucky rly consults with AVCON		
	19. RELEVANT PROJECTS							
	North Apron Rehabilitation, Bob Sikes Airport, Crestview, FL			PROFESSIONAL SER	2) YEAR COI	MPLETED CONSTRUCTION (If Applicable) 2011		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			Check if project per	formed with c	current firm		
This project involved rehabilitation of the North Apron at Bob Sikes Airport to accommodate additional large aircraft (C-130) on the former General Aviation Ramp Area. The work included new asphalt resurfacing along with additional PCC apron expansion. Through the use of a highly polymer-modified asphalt binder in conjunction with low air voids, the project included the installation non-toxic low-permeability hot mix asphalt that not only resists rutting and degradation, it also provides resistance to aircraft fue hydraulic fluids, and petroleum oils. The specification developed by AVCON, INC. and Dr. Robert Boyer, P.E. for this mix w originally identified as "P-401-FR" for its fuel-resistant properties. The material has recently been recognized for use by the F4 under the specification item P-601. In addition to an environmentally safe alternative to coal-tar, the P-601 mixture also provid the added benefit of improved resistance to rutting, commonly observed on asphalt pavements that are subject to heavy aircraft truck traffic. The development of this new specification represents the first coordinated effort to standardize this new technology is rearrant on a periangel pavement.					ge aircraft (C-130) on this I PCC apron expansion. Included the installation of esistance to aircraft fuels, er, P.E. for this mix was nized for use by the FAA 01 mixture also provides ubject to heavy aircraft or e this new technology for			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COI	MPLETED		
	Pavement Investigation and Rehabilitation Strategy, Runway 17L- 35R, St. Pete-Clearwater International Airport, St. Petersburg, FL			PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable) N/A		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			Check if project per	formed with c	current firm		
b	This project entailed a preliminary inspection of the Runway 17L-35R and Terminal Apron pavements at the St. Pete-Clearwater International by AVCON at the request of the Airport Engineer. The preliminary inspection was prompted by premature slippage distress of such severity that two emergency repair patches at the 35R end of the RW had been required in the past 12 months, and at the time of the inspection, an area in the same vicinity of the 35R end of the RW was scheduled for a third emergency repair. On the basis of these discussions, PIE authorized design of an emergency repair of approximately 300-feet of runway pavement that floated during a recent hurricane storm event. Dr. Boyer served as Project Engineer.							
	(1) TITLE AND LOCATION (City and State)	n Broward County	Viation		2) YEAR COI			
	Department, Ft. Lauderdale-Hollywood Lauderdale, FL	International Airpor	t, Ft.	2006	VICES	Applicable) N/A		
C	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	ND SPECIFIC ROLE		Check if project per	formed with c	current firm		
	Conducted investigation of durability and pro Runway 9L-27R. Assisted the BCAD in assig	edicted premature fai gning performance res	lure mode sponsibility	of P-401 Bitumino . Dr. Boyer served	ous Plant I as Asphal	Vix Pavement placed on It Pavement Consultant.		
	(1) TITLE AND LOCATION (City and State)	Air Force Base		(2) YEAR COI	MPLETED		
	Cocoa Beach, FL	All FOICe Dase,		PROFESSIONAL SER 2008-2009	VICES	CONSTRUCTION (If Applicable) 2009		
d	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	ND SPECIFIC ROLE		Check if project per	formed with c	current firm		
3	Project consisted of complete milling and replacement of 7,000 foot x 200 foot Hot-Mix Asphalt. Primary components of the work included re-defining the runway centerline alignment and profile; correction of pavement cross slopes to achieve UFC compliance; development and implementation of a new SuperPave [™] specification in conjunction with the USAF AFCESA; complete re-marking of the complete runway, and construction phase support services. Dr. Bover served as Asphalt Pavement Consultant					components of the work achieve UFC compliance; SA; complete re-marking Consultant.		
	(1) TITLE AND LOCATION (City and State) Mill and Overlay Runway 11-29 Patrick	Air Force Base			2) YEAR COI			
	Cocoa Beach, FL			PROFESSIONAL SER	VICES	Applicable) 2012		
е	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	ND SPECIFIC ROLE		Check if project per	formed with c	current firm		
	The work included all technical design of the 150 foot runway, along with related Specs int 02-20 project, AVCON was requested to utili Surface course. Dr. Boyer served as Asphalt	airfield to correct and act technical specification ize the previously applet Pavement Consultar	d restore th ations. Bas proved US nt to evalua	ne asphalt surface, sed on previous su AF Asphalt SuperF ate milling depths a	airfield ma ccessful ap Pave™ Spe nd fabric ir	arkings for a 4,000 foot x pplication on the Runway ecification for Bituminous installation requirements.		

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT						
12.	NAME	13. ROLE IN THIS CONT	RACT		14	4. YEARS EXPERIENCE	
	Carl S. Johnson II, E.C., A.C.E.	Senior Electrica	I Designe	r	a. TOTAL	b. WITH CURRENT FIRM	
15.	FIRM NAME AND LOCATION (City and State) AVCON, INC., Orlando, Florida				31	13	
16.	EDUCATION (Degree and Specialization)		17. CURRE	ENT PROFESSIONAL R	EGISTRATIO	ON (State and Discipline)	
	A.S. Computer Integrated Manufacturing, 1	993	Elect ACE	rical Contractor – – Airfield Lighting	FL Maintena	ance (AAAE)	
18.	Carl Johnson has 31 years of experience and his areas of expertise include planning, design, construction, and maintenance of electrical distribution systems. For the last twenty-four years, his primary focus has been the design and construction administration/inspection of airfield lighting and NAVAID systems. He has completed the OSHA 30 Hour course, is a Licensed Electrical Contractor and is an AAAE Airport Certified Employee (ACE) in the field of Airfield Lighting Maintenance. Mr. Johnson has participated in numerous forums and committees relating to airfield lighting, grounding, and lightning protection. <i>He has an extensive knowledge of NFPA, NEC, FAA, and military standards, and he is a Principal Member of the NFPA 780 Technical Committee for Lightning Protection and Underwriters Laboratories Standards Technical Panel 96 which covers activity for UL 96, Standard for Lightning Protection Components, and UL 96A, Standard for Installation Requirements for Lightning Protection Systems.</i>						
		19. RELEVANT F	PROJECT	S			
	(1) TITLE AND LOCATION (City and State)	and Inverses Air	orte	(2) YEAR CC	OMPLETED	
	Citrus County, FL	er and inverness Airp	jons,	PROFESSIONAL SER 2007-2008	VICES	CONSTRUCTION (If Applicable) N/A	
а	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.)	AND SPECIFIC ROLE		Check if project pe	erformed with	o current firm	
	AVCON reviewed existing records, perform documented the condition of the facilities as improve lightning protection of the systems.	ed field assessments it relates to their fun Carl served as Projec	and testi ction and t t Manager	ng of existing airfi lightning protection	eld and o and prov	utside electrical facilities, ided recommendations to	
	(1) TITLE AND LOCATION (City and State)			((2) YEAR CC	OMPLETED	
	Repairs to Airfield Lighting System, NA	AS Key West, FL		PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable) 2009	
b	 (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE (3) AVCON provided design and engineering services for the complete replacement of all electrical components from the primary side of five high voltage transformers throughout the entire airfield. The scope of services included all new airfield lighting, norm power electrical distribution, and standby power distribution systems. The project also included addressing environmental issue of wetlands and endangered species. Permitting efforts were also included. Additional, the scope included the design of a NFF 780 compliant lightning protection system and transient voltage surge suppression system (TVSS) for two airfield lighting value and lighting protection protection. 				a current firm ents from the primary side w airfield lighting, normal sing environmental issues ded the design of a NFPA two airfield lighting vaults al Designer.		
	(1) TITLE AND LOCATION (City and State)			((2) YEAR CC	OMPLETED	
	Airfield Lighting Vault Study, Perry Fol Taylor County, FL	ey Airport,		PROFESSIONAL SER	RVICES	CONSTRUCTION (If Applicable) N/A	
с	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) / The project included a detailed field evaluati and refurbish airfield electrical improvements a program to conduct a field evaluation and operating parameters of the vault. These re define the airfield electrical improvement protection. Carl served as Senior Electrical E	AND SPECIFIC ROLE on and electrical capa and the existing airfie electrical capacity as soults enabled the tea project. The study Designer.	acity asses eld lighting ssessment m to make also inclue	Check if project per sment to identify the vault serving Perry of the lighting vau a detailed assess ded evaluation of	erformed with the required v Foley Air v Foley Air v Foley Air valt and vault and	a current firm ments needed to upgrade port. The project included to establish the baseline upgrade requirements and beacon tower lightning	
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CC	OMPLETED	
	Airfield Lighting and Signage Improver Airport, Opa-Locka, FL	nents, Opa-Locka E	xecutive	PROFESSIONAL SER 1998-2004	RVICES	CONSTRUCTION (If Applicable) 2004	
d	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE (4) As part of the modernization of the airports under the control of the Miami-Dade Aviation Department, Opa-Locka Airport underwent \$7,000,000.00 of electrical upgrades. One project consisted of the electrical upgrade of four runways, associate taxiways, aprons and heliports. The project included a new airfield lighting vault and airfield lighting control system. Mr. Johnson performed the design to layout circuits for the new airfield signage, heliport, runway and taxiway lighting. Design included a new manhole and duct bank system to interconnect functional parts of the existing duct system and to provide connection of the airfiel lighting circuits to the new vault. Mr. Johnson received a "Certificate of Appreciation" from the Metro-Dade Aviation Department for his work on the project. The Metro-Dade Aviation Department was able to secure an additional \$3,000,000.00 FAA grant due the timely completion of the project design. Carl served as Project Manager/Senior Electrical Designer.				a current firm ment, Opa-Locka Airport four runways, associated trol system. Mr. Johnson g. Design included a new e connection of the airfield e Aviation Department for ,000.00 FAA grant due to		
	(1) TITLE AND LOCATION (City and State)		. –		2) YEAR CC	DMPLETED	
	Airport Standby Generator Program, N Naples, FL	aples Municipal Airp	ort,	PROFESSIONAL SER	RVICES	CONSTRUCTION (If Applicable) 2008	
Α	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.)	AND SPECIFIC ROLE		Check if project pe	erformed with	o current firm	
	Project consisted of the design of Prime Pow the Commercial Aviation Terminal (365 kW- included design/procurement documents for consisted of construction documents for the i	ver diesel generator s 456 kVA). Both syste the Owner's purchas nstallation of the two	ystems for ems were se of the t generator s	the General Aviation 208/120 volt, 3 pha wo generators and systems. Carl serve	on Termin ase 4-wire I other ma ed as Sr. I	al (275 kW-343 kVA) and a, 60 Hz. The first phase ajor equinment 3 Phase II Electrical Design er.	

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)							
12	NAME	13 ROLE IN THIS CONTRAC	СТ		14	4 YEARS EXPERIENCE		
	Mark Goodacre, A.C.E.	Electrical Designer	r		a. TOTAL 33	b. WITH CURRENT FIRM 7		
15.	FIRM NAME AND LOCATION (City and State) AVCON, INC., Orlando, Florida							
16.	EDUCATION (DEGREE AND SPECIALIZATION) A.S. Mechanical Engineering, 2004	17	. Curre N/A	NT PROFESSIONAL RE	GISTRATIO	ON (STATE AND DISCIPLINE)		
18.	8. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Mark Goodacre's previous experience and responsibilities have included the preparation of project documentation and load calculations for airfield lighting circuits, including the development of project base files in AutoCAD format from existing record drawings and field visits. He also has experience preparing design documentation for an airfield's lighting layout and circuitry for all associated Runways, Taxiways and Parking Aprons. Mark has special expertise in the area of 3D modeling and has developed construction details which demystify even the most complicated installations.							
		19. RELEVANT PRO	DJECTS	3				
	 TITLE AND LOCATION (City and State) Repairs to Airfield Lighting System, De Naval Air Station, Key West, FL 	esign-Build,		(2 PROFESSIONAL SERV 2006	2) YEAR CC /ICES	DMPLETED CONSTRUCTION (If Applicable) 2008		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE		Check if project per	formed with	n current firm		
a AVCON provided design and engineering services for the complete replacement of all electrical components from the primary of five high voltage transformers throughout the entire airfield at the Naval Air Station. The scope of services included addres airfield lighting, normal power electrical distribution, and standby power distribution systems. The project also included addres environmental issues of wetlands and endangered species. Permitting efforts were also included. Upgrades include requirements for Visual Flight Rule (VFR) and Precision Instrument Flight Rule (IFR) Category I operations. Mark server				ents from the primary side services included all new also included addressing Upgrades included all rations. Mark served as				
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CC	OMPLETED .		
	Repairs to Airfield Lighting System, Naval Air Station Whiting Field, Milton, FL			PROFESSIONAL SERV 2008-2013	/ICES	CONSTRUCTION (If Applicable) 2013		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE		Check if project per	formed with	n current firm		
b	AVCON provided design services to replace distribution transformers. The two airfield ligh distribution, lighting, standby generators, lig Breaker Coordination and Arc Flash Hazard were designed to replace all runway, taxiwa Station. Mark served as Electrical Designer.	e and enhance all airfiel ting vaults were stripped htning protection, const studies were performed ay, apron and helipad e	ld lightin of the c ant cur and imp edge lig	ng systems originat original equipment a rent regulators and olemented at each hting and airfield g	ting on th nd rehab an upd airfield lig uidance	he line side of the 15 kV iilitated with new electrical ated control system. Full ghting vault. Both airfields signage at the Naval Air		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CC	OMPLETED		
	Airfield Lighting Upgrades – Phase I, Jacksonville International Airport, Jack	csonville, FL		PROFESSIONAL SERV 2007-2008	/ICES	CONSTRUCTION (If Applicable) 2008		
С	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE		Check if project per	formed with	n current firm		
	This project is the first in a series of airfield lig an aged taxiway edge light system utilizing di edge fixtures. Mark served as Designer.	ghting upgrades planned irect buried cables with a	for Jacl a new ba	csonville Internation ase can and conduit	al Airport t system	t. This project will replace utilizing LED type taxiway		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CC	OMPLETED		
d	Runway 31 Medium Intensity Approach Runway Alignment Indicator Lights (M/ International Airport, St. Augustine, FL	h Lighting System with ALSR), Northeast Floric	da	PROFESSIONAL SERV 2010-2013	/ICES	CONSTRUCTION (If Applicable) 2013		
ũ	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE		Check if project per	formed with	n current firm		
	This project involved the installation of Me (MALSR). Mark served as Electrical Designe	edium Intensity Approacl er.	h Lighti	ng System with R	unway A	lignment Indicator Lights		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CC	DMPLETED		
	Orlando Sanford International Airport,	Sanford, FL		PROFESSIONAL SERV 2008-2009	/ICES	CONSTRUCTION (If Applicable) 2009		
е	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE		Check if project per	formed with	n current firm		
	This \$8 million project consists of rehabilitatir surface of existing runway pavement and ove in the project is rehabilitating Taxiway B1 bitu Mark served as Electrical Designer.	ng Runway 9L-27R bitum erlaying with varying dep uminous pavement and p	ninous p ths of P paving a	avement. The reha -401SP Super Pave n existing grass isla	bilitation e Asphalt and within	includes milling the entire Pavement. Also included In the Terminal ramp area.		

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person)							
12.	NAME	13. ROLE IN THIS CONT	RACT		14. Y	'EARS EXPERIENCE		
	Mary Soderstrum, AIA, NCARB, LEED [®] AP BD+C	Senior Airport F	Planner		a. TOTAL 34	b. WITH CURRENT FIRM 2		
15.	FIRM NAME AND LOCATION (City and State) AVCON, INC., Orlando, Florida							
16.	EDUCATION (Degree and Specialization) Bachelor of Architecture, 1976; Bachelor of Environmental Design, 1975	f Science,	17. CURRE Profe Certif Natio	ENT PROFESSIONAL RE essional Architect - fied LEED AP Build mal Council of Arc	EGISTRATION – FL, MO, R ding Desigi hitects Reg	(State and Discipline) RI, TN n and Construction gistration Board		
18.	Mary Soderstrum has over 35 years of experience as an airport planner, a senior aviation executive, facilities programmer, aviation activity forecaster, and architect. She has extensive expertise in airport master planning; facilities forecasting; and planning and design of aviation facilities including passenger terminals, aprons, airside facilities, terminal renovation, and airport expansion programs. She was part of separate teams that wrote the FAA Advisory Circular 150/5070-6 Airport Master Plans, and the FDOT Airport Master Plan Guidebook.							
		19. RELEVANT F	ROJECT	5				
	Spaceport System Plan, Space Florida, Kennedy Space Center, FL		PROFESSIONAL SER' 2012-2013	VICES C	ONSTRUCTION (If pplicable) N/A			
а	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE		Check if project per	rformed with cu	urrent firm		
	The purpose of the Spaceport System Plan is to provide information and g infrastructure development needed to position Florida for growth and to pro new and diversified aerospace business. Mary served as Airport Planner.			guidance to determi vide the State with	ne the exte	ent, type, and nature of itive edge for capturing		
	(1) TITLE AND LOCATION (City and State)			(2	2) YEAR COMP	PLETED		
	Cape Canaveral Spaceport Master Plar Spaceport, Brevard County, FL	n, Cape Canaveral		PROFESSIONAL SER 2012-2013	VICES C	ONSTRUCTION (If pplicable) N/A		
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE The purpose of the Spaceport Master Plan is to provide information and ana			Scheck if project per Sis to guide Space	rformed with cu Florida in it	urrent firm ts efforts to expand and		
b	modernize tacilities intrastructure at the Cape Canaveral Spaceport in Brevard County, Florida. The plan shall contain recommended projects to meet current and future commercial, national, and State space transportation requirements, and to							
	otherwise enable Space Florida to perform it	d future capabilities	of the Cape	e Canaveral Spaceport.				
	state" of the Spaceport, identify the planned i	role of Space Florida a	and the Flo	orida agencies in the	e facilitation	and funding of planned		
	improvements, and guide the prioritization of	recommended investr	ments. Ma	ary served as Airpor	t Planner.	0		
	(1) TITLE AND LOCATION (City and State) Master Plan Guidebook Undate Aviatio	on Division Florida						
	Department of Transportation, State of	Florida		2009		pplicable) N/A		
С	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE	n Cuidaba	Check if project per	rformed with cu	urrent firm		
	as well as delineated many FDOT spec Principal Author.	ific requirements for	the prod	luction of Airport	Master Pla	ins. Mary served as		
	(1) TITLE AND LOCATION (City and State)			(2	2) YEAR COM	PLETED		
	FAA Master Plan Advisory Circular, Fe Administration, Washington, D.C.	deral Aviation		PROFESSIONAL SER	VICES C	ONSTRUCTION (If pplicable) N/A		
d	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE		Check if project per	rformed with cu	urrent firm		
	Participated in the team that after twenty ye	ears re-wrote the FA	A Advisor	y Circular (AC) 150)/5070-6 Air	rport Master Plans that		
	served as a project writer and review panelist	t.			ioping / inp	on matter hand mary		
	(1) TITLE AND LOCATION (City and State) Master Plan Lindate, Tampa Internation	al Airport Tampa E						
		iai Alipoit, Taliipa, T	L	2007	VICES C	pplicable) N/A		
е	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE	<i></i>	Check if project per	rformed with cu	urrent firm		
	Terminal Area and to ensure that the existin Area is operational. Mary served as Project I	ning work and cost end to the meets the Manager.	planning	requirements neces	ssary until t	he new North Terminal		
	(1) TITLE AND LOCATION (City and State)			(2	2) YEAR COMP	PLETED		
	master Plan Update, Wauchula Municip	bai Airport, Wauchula	a, ⊦L	PROFESSIONAL SERVICES CONSTRUCTION (If 2013-On-going Applicable) N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE	_	Check if project per	rformed with cu	urrent firm		
t	This Airport Master Plan Update was prepared airport imp	ared for the City of V	Nauchula	(City) and the Wa	uchula Mur	nicipal Airport Authority		
	services at the Wauchula Municipal Airport (Airport). This study co	nsiders fut	ture airport improve	ments for a	20-year period of 2012		
	to 2031. This project provides an update to Project Manager	the previous Master	r Plan Up	date completed in	November 2	2007. Mary serves as		
						EXHIBIT 3		

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)							
12.	NAME Rocky Dovichi	13. ROLE IN THIS CONTRACT Civil and Airfield Construction Si	. Inspector	a. TOTAL	14. YEARS EXPERIENCE b. WITH CURRENT FIRM			
15.	FIRM NAME AND LOCATION (City and State AVCON, INC. (Ft. Lauderdale, FL))						
16.	EDUCATION (Degree and Specialization)	1	. CURRENT PROFESS	ONAL REGI	STRATION (State and Discipline)			
18. Mr. cor dev ligh skil rep cor	In Dovichi is an accomplished Construction Professional with over 25 years of experience in all facets of heavy and highway onstruction, including substantial airport experience. Some of the highlights of his career include safety, planning, and inspecting onstruction and major improvements for international airports, DOT heavy highway projects, bridges, industrial, commercial land levelopments and mixed use hi rises. He has managed and completed the installation of asphalt and concrete pavements, FAA signage, ghting, vaults and duct banks, lift and pump stations, pavement markings and most civil disciplines and underground utilities. He is a killed construction negotiator, with a full understanding of civil construction QA/QC standards; and a complete grasp of state and federal eporting criteria and records management. His many years of construction provide an excellent platform from which to oversee construction projects of all types.							
		19. RELEVANT PROJEC	TS					
	(1) TITLE AND LOCATION (City and State)			(2) YEAR (COMPLETED			
	Rehabilitation of Runway 4-22 Zephyrhills Municipal Airport (Zephyrhills, FL)	PROFESSIONAL SEF	RVICES	CONSTRUCTION (If Applicable) 2014				
	(3) BRIEF DESCRIPTION (Brief scope, size	e, cost, etc.) AND SPECIFIC ROLE	Check if project p	erformed wit	h current firm			
а	The project consisted of rehabilitating Runway 4-22, the Airport's 5,001' x 100' primary Runway. Pavement rehabilitation involved recycled stabilized base construction utilizing the existing pavement structure (asphalt and limerock) prior to a 4" asphalt overlay. Additionally, an area of concrete in poor condition at the Runway 4-22 end was removed and crushed on site to create additional new base material. As part of the project, the runway numerals we adjusted from 4-22 to 5-23 to account for the current magnetic declination. The project also included rehabilitation of the runway lighting system (upgrade to LED edge lights, threshold lights, and REILs), new signage, and the installation of new 4-Box PAPIs, as well as marking and grooving of the entire runway. A new taxiway and small hold apron was also constructed to de-conflict the Runway 22 and Runway 18 ends in order to comply with geometric layout requirements of FAA AC 150/5300-13A. Mr. Dovichi serves at Senior Construction Inspector							
	(1) TITLE AND LOCATION (City and State)			(2) YEAR (COMPLETED			
	Taxilane A Extension Naples Municipal Airport (Naples, FL)	PROFESSIONAL SEF	RVICES	CONSTRUCTION (If Applicable) 2013				
b	 (3) BRIEF DESCRIPTION (Brief scope, size) TAXILANE A EXTENSION Naples Municipal Airport, Naples, F Construction Inspector For this assignment AVCON provestension of Taxiway A to connect eclamation and back-filling of an Construction Inspection was provide a pre-paving meeting with the Ownstrip and full production paving of served as Sr. Construction Inspect 	<i>cost, etc.)</i> AND SPECIFIC ROLE ided engineering planning, design, bid ect to the end of the previously lengt existing wet stormwater pond to create ed during the pavement of the P-401 Su er and Contractor for a thorough review the Superpave Asphalt Design Mix to e or.	Check if project properties of the construction of Runy the safety area new perpave Asphalt Terror of the Contract Doctor nsure a high quality	ction phas way 23. ⁻ cessary fo st Strip. T cument Re pavement	h current firm se services for the 800-foot The project included partial or the Taxiway A extension. his also included conducting equirements for both the test nt construction. Mr. Dovichi			
	(1) TITLE AND LOCATION (City and State) Airport Terminal and Ramp F	vnansion		(2) YEAR (
	Miami International Airport (Miami, FL)			RVICES	2006			
с	(3) BRIEF DESCRIPTION (Brief scope, size	e, cost, etc.) AND SPECIFIC ROLE	Check if project p	erformed wit	h current firm			
	This project consisted of the remo new construction of PCC / asphalt building structures and utilities; ins ground; extension of new undergro Mr. Dovichi served as Project Mana	val and replacement of PCC Aprons for taxiway connectors, FAA signage and li tallation and inspection of new underground und jet fuel system; and support role for ager for the Contractor.	Terminals B, C, E ghting, interior roads bund facilities, new t International and Dc	and D Ex s and tug terminal fi omestic Ba	tension. Work also included roads; demolition of existing ber optics above and below aggage system site logistics.			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR (COMPLETED			
	Construction of Taxiway N Tampa International Airport (Tampa, FL)		PROFESSIONAL SEF	RVICES	CONSTRUCTION (If Applicable) 2002			
α	(3) BRIEF DESCRIPTION (Brief scope, size	e, cost, etc.) AND SPECIFIC ROLE	Check if project p	erformed wit	h current firm			
	Constructed new concrete taxiwa dewatering, all related underground Mr. Dovichi served as Construction	y "N" and air cargo facility, site secu d utilities, fiber optic, electrical lighting an Manager for the Contractor.	rity and logistics, d d signage, Slip form	emolition, concrete	, PCC crushing operations, and asphalt paving.			

	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	S EXPERIENCE	
	Zemp B. Pepper, P.E.	Mechanical / Plumbing / Fire P	rote	ction Engineer	a. TOTAL 28	8	b. WITH CURRENT FIRM 2	
15.	FIRM NAME AND LOCATION (City and State AVCON, INC. (Ft. Lauderdale, FL))						
16.	EDUCATION (Degree and Specialization)	3	17.	CURRENT PROFESSIO		STRATION	(State and Discipline)	
	D.S. Mechanical Engineering, 190	5		Fire Protection Er	ngineer – P	- FL		
18.	Mr. Pepper has more than 28 years of experience in design, analysis and layout of HVAC, plumbing and fire protection for a wide variety of public, commercial and industrial projects, including aviation projects. His technical skills include proficiency in Microsoft Word and Excel, AutoCAD 2010, Trane Trace 700 Load Program, Florida Energy Code and Elite Fire Protection Software. In addition to his various mechanical design roles, Mr. Pepper has demonstrated expertise in the design and understanding of various fire suppression system projects. Fire protection design includes wet and dry type sprinkler systems, standpipe systems, fire pump systems, and clean agent systems.							
		19. RELEVANT PROJ	ECT	S				
	(1) TITLE AND LOCATION (City and State)	on Brogrom			(2) YEAR (ED	
	Orlando, FL)			PROFESSIONAL SER 2008	VICES	CONSTR 2009	RUCTION (If Applicable)	
a	(3) BRIEF DESCRIPTION (Brief scope, size	e, cost, etc.) AND SPECIFIC ROLE		Check if project pe	rformed witl	h current fi	rm	
u	Design included complete renovation of twelve (12) different restroom locations on the Transfer Level of Airside 4 at OIA. Work included complete gutting of the restrooms to original framing, new chases, new code compliant fixture count, and considerable phasing to maintain restrooms for public service throughout construction. Design included new cold water, hot water, sanitary waste and vent piping, new plumbing fixture specifications, complete new LED lighting and ventilation, electrical hand dryers, and new electrical services to all facilities from existing house panels in the terminal. Mr. Pepper served as Lead MEP Engineer.							
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETE	ED	
	Maintenance Hangar Wauchula Municipal Airport (Wauchula, FL)			PROFESSIONAL SERVICES 2008		CONSTRUCTION (If Applicable 2009		
b	(3) BRIEF DESCRIPTION (Brief scope, size	e, cost, etc.) AND SPECIFIC ROLE		Check if project pe	rformed witl	h current fi	rm	
	HVAC design included ventilation systems for the hangar maintenance spaces and restrooms. Plumbing design included domestic cold water, hot water, sanitary waste and vent, and plumbing fixture specification for the facility. Mr. Pepper served as Lead MEP Engineer.							
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (OMPLETE	ED	
	Waste Water Treatment Admi Panama City-Bay County Inte (Panama City, FL)	nistrative Building rnational Airport		PROFESSIONAL SER 2007	VICES	CONSTR N/A	RUCTION (If Applicable)	
С	(3) BRIEF DESCRIPTION (Brief scope, size	e, cost, etc.) AND SPECIFIC ROLE		Check if project pe	rformed with	h current fi	rm	
	HVAC design included package s provided for the restroom and lock Plumbing work included domestic wash station was provided for the l	blit system unit to condition the WWT er room facilities. The remote Electric cold water, hot water, sanitary waste ab area. Mr. Pepper served as Lead	P off al Co and v MEP	fice spaces and loc ontrol Building was vent systems for th Engineer.	cker room provided e facility	n. Ventil with ven fixtures.	lation systems were itilation and heating. An emergency eye	
	(1) TITLE AND LOCATION (City and State)	P			(2) YEAR (COMPLETE	ED	
	Naval Air Station (Kev West, FL)	aings		PROFESSIONAL SER 2006	VICES	CONSTR 2008	RUCTION (If Applicable)	
d	(3) BRIEF DESCRIPTION (Brief scope, size	e, cost, etc.) AND SPECIFIC ROLE		Check if project pe	rformed wit	h current fi	rm	
	HVAC design included package rooftop units to condition the airfield regulator rooms and computer control spaces. Exhaust flue piping and radiator discharge duct were provided for the emergency generator systems. A ventilation system was provided for the non-conditioned building spaces. Diesel fueling system was upgraded with new piping and inventory/monitoring systems. Mr. Pepper served as Lead MEP Engineer.							
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLETE	ED	
	Showalter Flying Service Orlando Executive Airport (Orlando, FL)			PROFESSIONAL SER 2006	VICES	CONSTRUCTION (If Applicable) 2006		
е	(3) BRIEF DESCRIPTION (Brief scope, size	e, cost, etc.) AND SPECIFIC ROLE		Check if project pe	rformed witl	h current fi	rm	
	HVAC design included single zone provided for the restroom facilities plumbing fixture specifications. Mr	 DX unit to service the office and sup Plumbing design included domesti Pepper served as Lead MEP Engine 	port c hot er.	spaces for the har t and cold water, s	ngar facili anitary a	ity. An e nd vent	exhaust system was systems as well as	

	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 1								
21.	21. TITLE AND LOCATION (<i>City and State</i>) 22. YEAR COMPLETED								
	General Consulting Services - Kissi Kissimmee, FL	nmee Gateway Airport,	PROFESSIONAL SERVICES CONSTRUCTION (if Applicable) 2008-On-going On-going						
	23. PROJECT OWNER'S INFORMATION								
a.	PROJECT OWNER City of Kissimmee, FL – Kissimmee Gateway Florida	ME c. POINT OF CONTACT PHONE NUMBER (407) 847-4600							
24.	BRIEF DESCRIPTION OF PROJECT AND RELE	VANCE TO THIS CONTRACT (Inclu	ude scope, size, and c	cost)					
AV Kis Sai Sei	 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) AVCON has served as a Prime Consultant to City of Kissimmee (Ateway Airport since 2008. Samples projects completed under this General Consulting Services contract have included: A Replace Airfield Guidance Signs and Lighted Windcone (2010-2012): The project included design, bidding, and construction phase services for the construction of an FAA L-888 LED Guidance Signs and an L-807 LED Lighted Windcone. Rehabilitation of Runway 6-24 (On-going): The project consists of design and bid phase services, including pavement and geometry analysis for rehabilitation of Runway 6-24 (Currently 5,000' x 150'); design provision for Runway 6 standard blast pad; airfield lighting, vault, and navigational aid analysis and design to consider future Runway marking design; storm-water design and permanent runway marking design; storm-water design and permenent runway marking design; torm-water design and permanent runway marking design; torm-water design and permenent runway marking design is torm-water design and permanent runway marking design is torm-water design and permanent runway marking design to consider future Runway end pertanent runway marking design to consider future Runway and permanent runway marking design to consider future Runway end pertanent runway marking design to consider future Runway end pertanent runway marking design is torm-water design and permanent runway marking design to consider future Runway end permanent runway marking design is torm-water design and permanent runway marking design to consider future Runway end permanent runway marking design to consider future Runway end permanent runway marking design to consider future Runway end permanent runway marking design to consider future Runway end per								
	support systems; mechanical a systems; and complete site work	nd plumbing support syster including asphalt parking lo	ns; components, t/access, PCC si	, cladding, and glazing dewalks, airside suppo	systems; access control rt ramps, marking, potable				
	water/fire main, and septic system	n with drainfields.							
	25. FIF	MS FROM SECTION C INV		HIS PROJECT					
а	(1) FIRM NAME (2) AVCON, INC. O	FIRM LOCATION (City and State) Iando, Florida	(3) ROL Profes	E Sional Engineering So	ervices				
b	(1) FIRM NAME (2) Cal-Tech Testing, Inc. Ja	FIRM LOCATION (City and State) cksonville, Florida	(3) ROL Geote	E chnical Engineering					
	(1) FIRM NAME (2)	FIRM LOCATION (City and State)	(3) ROL	E					

(2) FIRM LOCATION (City and State)

(2) FIRM LOCATION (City and State)

(2) FIRM LOCATION (City and State)

(3) ROLE

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(1) FIRM NAME

(1) FIRM NAME

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

Present as many projects as requested by the agency, or 10 projects. If not specifi

	Complete one Section F for each project.)								
21.	1. TITLE AND LOCATION (<i>City and State</i>) General Consulting Services - Wauchula Municipal Airport.								
	Wau	chula, FL		PROFESS 1996-Or	IONAL SERV		CONSTRUCTION (if A On-going	pplicable)	
			23. PROJECT OWNER	'S INFO	RMATION	l			
a.	PROJ City	ECT OWNER of Wauchula	b. POINT OF CONTACT NAM Olivia Minshew	ME	c. F	OINT OF CON 863) 773-31	TACT PHONE NUMBER		
24.	BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)								
AV FA	VCON has provided on-call General Consulting Services to this client since 1996. Services include: grant coordination with FDOT and FAA, and other project specific work orders as required by the City. Projects under this contract have included:								
	★	Security Enhancements (O occur in 2013.	on-going): Design of security fenc	ing, CCT\	/ cameras	and electron	ic access gates. C	onstruction to	
	*	T-Hangars and Taxi-lanes occur in 2013.	(On-going): Design of taxilanes	and supp	orting Taxi	way to futur	e T-hangar lots. Co	onstruction to	
	*	Construct Master Stormwa future development in the no	ater Ponds (2011-2012): Desig rthwest quadrant of the Airport.	n and cor	nstruction of	of storm-wate	er detention ponds	which allows	
	★ Maintenance Hangar, Site Utilities and Apron (2007-2010): This project provided a new aircraft maintenance hangar, ramp area and new utilities to support the airport's economic development objectives. It also provided for the construction of a 9,600 square foot single bay hangar to be used for aircraft storage/maintenance adjacent to a new aircraft parking apron. The building site included a connector to the existing roadway, a new vehicle parking lot, and new or extended utilities to serve the new facility.								
	★ T-hangar Design and Westside Master Development (2006): Provided Master Development Plan on properties to the North, West and South; including a Conceptual Stormwater Plan and Conceptual Utilities Plan for the entire site to support four rows of T-hangars along a new taxilane.								
	*	Sealcoat and Mark Runwa runway was then re-marked final recommendation of the	ay 18-36 (2003): The project co with visual markings. The desig selected system.	nsisted of n included	ⁱ placing a I analysis o	surface tre of several dif	atment on Runway ferent treatment alt	18-36. The ernatives and	
	"Based on the expertise provided by AVCON, their commitment to excellence and design innovation, as well as the quality and consistency of AVCON's outstanding staff, I ampleased to recommend AVCON and Mr. Holliday as project manager, without reservation to any Airport for all related airport consulting services."								
		25	. FIRMS FROM SECTION C INV	OLVED W	ITH THIS	PROJECT			
а	(1) AV	FIRM NAME CON, INC.	(2) FIRM LOCATION (<i>City and State</i>) Orlando, Florida		(3) ROLE Professio	nal Enginee	ring Services		
b	(1)	FIRM NAME	(2) FIRM LOCATION (City and State)		(3) ROLE				
с	(1)	FIRM NAME	(2) FIRM LOCATION (City and State)		(3) ROLE				
d	(1)	FIRM NAME	(2) FIRM LOCATION (City and State)		(3) ROLE				

(2) FIRM LOCATION (City and State)

(3) ROLE

(1) FIRM NAME

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	(F. EXAMPLE PROJECT QUAL Present as many projects a Comp	IS WHICH BEST ILLUSTRAT IFICATIONS FOR THIS CON as requested by the agency, of olete one Section F for each pl	TE PROPOSI TRACT r 10 projects, roject.)	ED TEAM'S		20. EXAMPLE PROJECT KEY NUMBER 3	
21.	1. TITLE AND LOCATION (City and State) 22. YEAR COMPLETED							
	General Consulting Services - Perry-Poley Airport, PROFESSIONAL SERVICES CONSTRUCTION (if Applicable) Taylor County, FL 2007-On-going On-going							
	23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER b. POINT OF CONTACT NAME c. POINT OF CONTACT PHONE NUMBER Taylor County, FI Melody Cox (850) 838-3553							DNE NUMBER	
24.	BRIE	F DESCRIPTION OF PROJECT AND F	RELEVANCE TO THIS CONTRACT (Inclue	de scope, size, and	l cost)			
AV FA	CON A as	I has provided on-call General well as specific task orders as	Consulting Services to this clien required by the County. Projects	t since 2007. S s under this co	Services include ontract have include	grant coo led:	rdination with FDOT and	
	*	Runway 18-36 Rehabilitation shoulder asphalt to allow for asphalt was installed on the runway was included.	on—Phase I (2011-2012): The Ph or re-shaping of the base course re-shaped base course in accorda	nase I work inc e material to e ance with FAA	luded the comple liminate depress grading standard	te remova ions and s. Re-ma	al of existing runway and areas of ponding. New rking of the northern half	
	★ Runway 18-36 Rehabilitation—Phase II (2012-On-going): The Phase II design has been completed and bids were opened August 2012. The project is anticipated to be awarded for construction in September and will address the reconstruction of the south half of Runway 18-36 to rehabilitate the asphalt surface. The new runway surface and associated Runway Safety Area will be re-graded in accordance with FAA standards.							
	★ Marking and Lighting Rehabilitation (2009): Project included the design and construction administration for the re-marking of Runway 18-36 and Runway 12-30. The project also replaced 20 airfield directional/information signs and several taxiway edge lights. New L-806 LED windcones were also specified to reduce operational costs.							
	*	North T-Hangar Developme and permitted a stormwater eight-unit T-Hangar facility wi	ent (2008-2009): Developed a management facility to accomn ith associated taxiway/taxilane inf	T-hangar deve nodate three fi rastructure.	lopment strategy uture hangar row	for long- /s. Desig	term demand. Designed ned a developed a new	
	*	Electrical (Vault) Capacity associated with the existing evaluation identified significal priorities for reducing operation	y Assessment and Field Eval g airfield lighting circuits and th nt capacity for expansion within th onal costs and improving system	uation (2008) e equipment ne vault (curren integrity.	: Project evalua contained within htly utilizing 49%	ated the the airfi of existing	integrity and the loads eld electrical vault. The g capacity) and identified	
		PERR AIR DETERM	A FOLEY PORT FOLEY RODER RY SERVICE OFFICER			0		
		25.	FIRMS FROM SECTION C INV	OLVED WITH	THIS PROJECT			
а	(1) AV	FIRM NAME CON, INC.	(2) FIRM LOCATION (<i>City and State</i>) Niceville and Orlando, Florida	(3) RC Profe	essional Enginee	ering Ser	vices	
b	(1) Ca	FIRM NAME I-Tech Testing, Inc.	(2) FIRM LOCATION (City and State) Jacksonville, Florida	(3) R(Geot	DLE echnical Engine	ering		

(2) FIRM LOCATION (City and State)

(2) FIRM LOCATION (City and State)

(2) FIRM LOCATION (City and State)

(3) ROLE

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(1) FIRM NAME

(1) FIRM NAME

(1) FIRM NAME

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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 (<i>City and State</i>) 22. YEAR COMPLETED 22. YEAR COMPLETED							
Martin County Airport / Witham Field, Stuart, FL		PROFESSIONAL SERVICES 2011-2013		CONSTRUCTION (if Applicable) 2013			
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER Martin County Airport / Witham Field	b. POINT OF CONTACT NA George Stokus, A.A	ME A.E.	c. POINT OF CONT (772) 221-237	аст рн 74	ONE NUMBER		
24. BRIEF DESCRIPTION OF PROJECT AND RELEVAL	NCE TO THIS CONTRACT (Inclu	ide scope, size, and	cost)				
This project included improvements to airfield signage and consisted of replacing approximately 80 internally illuminated airfield guidance and mandatory hold signs. The Scope of Work also included a study of the Electrical Vault and assessment report of the regulators and other equipment. Additionally, the airport elected to place additional signs which included Runway Distance Remaining Signs (RDR) along Runway 12-30 where funds allowed.							
Signs (RDR) along Runway 12-30 where fun Many of the existing signs exceeded their e	ds allowed. expected service life with	sign faces fade	ed, and differing m	nanufac	cturers spread across t		

Many of the existing signs exceeded their expected service life with sign faces faded, and differing manufacturers spread across the airfield. Replacing signs with updated Light Emitting Diode (LED) fixtures results in decreased utility and maintenance costs with an increase in brightness and reliability. Additionally, there will be a decrease in the overall carbon emissions due to the reduction in power requirements. The installation of the airfield signage increases the safe operations of aircraft ground traffic movement at the Martin County Airport/Witham Field.

The objective of this contract were to prepare the necessary plans and specifications to bid the improvements; assist the County in bidding the project and selecting a contractor to construct the improvements; and providing the administration and management services for the design and construction associated with the project.



	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
а	(1) FIRM NAME AVCON, INC.	(2) FIRM LOCATION (City and State) Orlando, Florida	(3) ROLE Professional Engineering Services					
b	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE					
с	(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 WH QUALIFICAT (Present as many projects as requi Complete or	ICH BEST ILLUSTRA IONS FOR THIS CON ested by the agency, o ne Section F for each p	TE PROPOSE TRACT r 10 projects, roject.)	If not specified.	Z	PROJECT KEY NUMBER 5		
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED						
Stormwater Master Plan and Taxiway Rehabilitation and Widening, Bob Sikes Airport, FL		PROFESSIONAL SERVICES 2009-2012		CONSTRUCTION (if Applicable) 2012			
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER	b. POINT OF CONTACT NAM	ME	c. POINT OF CONT		E NUMBER		
Okaloosa County Airports	Tracy Stage		(850) 651-716	50 X 1055			

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

This project consisted of complete design, permitting, construction administration and inspection services to widen the 8,000-foot Taxiway A from 50 to 75 feet and add 18,000 sy of asphalt apron to accommodate new industrial tenants. The pavement work included over 37,000 tons of asphalt. Additionally, an airport stormwater master plan was developed to provide a centralized stormwater management system to treat the existing and future airport development. The airport property is composed of 1,088 acres and the stormwater improvements encompass approximately 270 acres of development.

The purpose of the airport stormwater master plan was to develop a stormwater management plan consistent with FAA policy regarding stormwater management facilities, provide water quality treatment requirements to comply with Okaloosa County and the Northwest

Florida Water Management District (NWFWMD), and to have sufficient attenuation capacity to meet Okaloosa County attenuation requirements. The AVCON Phase I stormwater permit recently obtained for this project is the second largest permit issued by the NWFWMD to date. Upon NWFWMD assuming ERP Phase II permitting responsibilities from the Florida Department of Protection in October of 2010, this project also became the first wetland project evaluated by the NWFWMD under the new rules.

This project brought the airfield and other improvements existing and proposed into compliance with the local and state permitting agency requirements. Previously, the airport had little onsite stormwater treatment and attenuation which resulted in compliance issues as new projects were permitted resulting in longer permit times and higher construction costs. The stormwater master plan considered the proposed build-out shown in the ALP and other areas that may be revenue generators for the airport. The approved plan included the construction of ponds in key development areas; therefore streamlining the permitting process for the airport and future tenants resulting quicker design/permitting times, significant construction cost savings (only secondary stormwater improvements are required) and shorter construction schedules.



	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT								
а	(1) FIRM NAME AVCON, INC.	(2) FIRM LOCATION (City and State) Niceville, Florida	(3) ROLE Professional Engineering Services						
b	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE						
с	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE						
d	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE						
е	(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 WH QUALIFICAT (Present as many projects as requ Complete or	20. EXAMPLE PROJECT KEY NUMBER 6						
21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED					
General Consulting Services - Okeecho Okeechobee County, FL	bee County Airport,	PROFESSIONAL 2001-On-goin	SERVICES	CONSTRUCTION (if Applicable) On-going			
	23. PROJECT OWNER	'S INFORMA	TION				
a. PROJECT OWNER Okeechobee County, FL	b. POINT OF CONTACT NAME Kathy Scott	ME	c. POINT OF CONTACT PHONE NUMBER (863) 467-5505				
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost) AVCON has served as a Prime Consultant to the Okeechobee County Airport Authority since 2001. Some of the projects completed under this General Consulting Services contract have included:							
★ Upgrade Airport Security and Fer	ncina (On-aoina): The pr	oiect consists o	of design, equipm	ent sel	ection and specifications.		

- ★ Upgrade Airport Security and Fencing (On-going): The project consists of design, equipment selection and specifications, plans, and bid documents along with construction phase services to upgrade existing access gates, replace gate operators, install new access control hardware and software, and install new CCTV cameras.
- ★ Master Drainage Plan Update (On-going): This project consists of the revision and completion of a Master Drainage Plan to guide future development to 2025.
- ★ Taxiway A Extension West (On-going): This design project will extend Taxiway A to serve the airport's future FBO/Hangar development areas. The extension is approximately 1, 000 feet, and will include three connector taxiways to the development site.
- ★ Replace and Relocate Airfield Rotating Beacon (2011): This project consisted of the installation of a new rotating beacon in a new location as the existing location conflicted with expansion plans for the terminal building. Power was run to the new beacon via directionally drilled and direct buried conduit from the airfield electrical vault.
- ★ Taxiway A and C (Professional Services 2010-2011, Construction 2011): AVCON's services included inspection during construction, substantial completion with preparation of a contractor punch list and final inspection of the project. All of the Taxiway edge lighting was replaced and new FAArequired airport signage was installed. Existing direct buried cable and stakemounted quartz lighting was replaced with new LED light fixtures, base cans and conduit system.
- ★ Rehabilitation of Runway 5-23 (2006-2009): This work involved the complete planning, funding and grant support, and all construction phase services for rehabilitation of the airport's primary runway, the primary parallel taxiway and the terminal apron using a variety of techniques including cold-in-place recycling, mill and overlay, P-401 SuperPave[™] asphalt concrete. The work incorporated new airfield lighting and signage, airfield markings, many other support roles as requested from time to time.
- ★ On-Call Services, JACIP, SFWMD Compliance, Industrial Park Zoning, Airspace, and Other Issues (On-going): Along with the project specific assignments undertaken over the past several years, the AVCON Team is routinely called upon by airport management to address other non-specific issues relating to the overall operation, maintenance and related activities at the airport.
- ★ Emergency Generator (2007): This project included installation of an airport-wide emergency generator system.



"The progress we have achieved is largely due to the professionalism, expertise and work of AVCON personnel. In particular, I have been ably assisted by Jim Kriss, Carl Johnson...

...The stature of a company is measured by the quality of its employees, and AVCON is wellserved by these outstanding professionals."

> W. Vernon Gray Former Airport Manager

★ Apron Lighting (2005): This project was undertaken to increase safety and security at the airport during darkness and low visibility conditions. This project was designed and constructed using multiple grants due to size limitations on the recurrent funding from the FAA. However, as a result of this careful grant coordination, and timing of the original bidding and award of a supplemental agreement for additional scopes of work, the project was completed in December of 2005. AVCON provided planning, design, bidding, and construction phase services.

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT								
а	(1) FIRM NAME AVCON, INC.	(2) FIRM LOCATION (City and State) Orlando, Florida	(3) ROLE Professional Engineering Services						

F. EXAMPLE PROJECTS WH QUALIFICAT (Present as many projects as requ Complete or	ICH BEST ILLUSTRA FIONS FOR THIS CON rested by the agency, c ne Section F for each p	TE PROPO ITRACT or 10 project oroject.)	SED TEAM'S	20. EXAMPLE PROJECT KEY NUMBER 7
21. TITLE AND LOCATION <i>(City and State)</i> Rehabilitation of Runway 5-23, Jacksor Craig Airport; Rehabilitation of Runway Herlong Recreational Airport; Jackson	ville Executive at / 7-25, ville, FL	PROFESSION 2008-2011	22. YEAR	COMPLETED CONSTRUCTION (if Applicable) 2009-2011
:	23. PROJECT OWNER	R'S INFORM	IATION	
a. PROJECT OWNER Jacksonville Aviation Authority	b. POINT OF CONTACT NA Doug Sherman	ME	c. POINT OF CON (904) 741-22	ITACT PHONE NUMBER
 24. BRIEF DESCRIPTION OF PROJECT AND RELEVAN Jacksonville Executive at Craig Airport (CRC downtown Jacksonville, Florida. Because of Craig Airport helps to divert general aviatior International Airport (JAX) and its large comm mid-sized general aviation airport that hanc commuter planes. The airport has a contra aircraft operations daily. Craig Airport cover contains two paved runways: 5/23 measur measuring 3,998 x 100 ft. Craig Municipal Air Herlong Recreational Airport located app southwest of downtown Jacksonville, is prom general aviation recreational and sport flying a prime recreational site for small private pla gliders and other small or experimental air accommodating sport aeronautical operation airport to JAX. Based on the Master Plan, the critical aircra X, an ADG-II aircraft, Approach Category C design program released by the FAA, calle the critical aircraft design concept. Instead, the program and cumulative damage factor (the recommended pavement structure. The rehabilitation of the Runways consisted existing asphalt and placing a variable (SuperPave™) asphalt. The overlay encomp the runway and required transitional areas of Craig 5-23 project included widening of the feet. The existing light fixtures were adju geosynthetic membrane interlayer was placed over the existing concrete encased duct to prevent reflective cracking. The new pavement markings at both airports included runway designation markings, runway centerline markings, runway edge stripes, and runway threshold markings. These markings consisted of white paint with retroreflective beads. In addition, taxiway centerline markings and edge markings were placed as necessary on the taxiway connections. 	ACE TO THIS CONTRACT (Inclu ACE TO THIS CONTRACT (Inclu a) is located just 8 miles of its location, size and can an traffic away from Jacks hercial planes. Craig Airpulles personal aircraft and ol tower and handles 40 is an area of 1,342 acress ing 4,004 x 100 ft. and port also has 17 taxiways proximately eleven (11) hoted as "Jacksonville's p airport". The Airport is cu nes, hot air balloons, sky craft. Herlong supports J is, thereby serving as a r ft for the runway is the C . However, the new pay d FAARFIELD, no longe the entire fleet mix is inp CDF) is computed to deta I of milling a nominal ½" depth overlay of P- bassed the full 100 foot w on the taxiway connectors existing 10 foot shoulders sted to proposed grade EXCELENCE IN PAVING DISTRICT 2 WINNER DIVISION CONSULTATION DISTRICT 2 WINNER DIVISION CONSULTATION DISTRICT 2 WINNER DIVISION CONSULTATION	ude scope, size, east of apacity, sonville ort is a d small 00-500 a which 14/32 s. miles oremier urrently rdiving, JAX by reliever Citation vement er uses out into ermine of the 401SP vidth of s. The s to 13 es. A	 and cost) QUICK FACTS: The flexible pay accordance with 150/5320-6, "Ai Evaluation". The pavement subsequently th Pavement Des computer progr The pavement of the FAA progra The marking co in accordance via in FAA Advisory "Standards for / The projects ind 23 shoulders ar The projects rea and nighttime (I detailed phasing the construction Overall Project Overall Project 	A ements were designed in h FAA Advisory Circular inport Pavement Design and section was evaluated using the new FAARFIELD - Airport ign (V 1.302, 3/11/09) am for Craig. overlay was determined using ms for a CBR value of 17. or and layouts are designed with the requirements outlined y Circular 150/5340-1K, Airport Markings". cluded work on existing R/W 5- nd airfield lighting fixtures. quired both daytime (Phase 1) Phase 2) construction and a g summary was included in n plans. t Cost: \$1,246,000 (Craig) a gummary was included in n plans.
25. FIRMS	FROM SECTION C INV		H THIS PROJECT	
a (1) FIRM NAME (2) FIF AVCON, INC. Orlar	RM LOCATION (City and State)	(3) Pro	ROLE ofessional Enginee	ering Services

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		F. EXAMPLE PROJEC	TS WHICH BEST ILLUSTRA	TE PROPOS	ED TEAM'S	20. EXAMPLE			
	QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, If not specified.					NUMBER 8			
21	TITI E AN	D LOCATION (City and State)			22 YEAR C				
21.	Genera Cecil, J	I Consulting Services – J acksonville Executive at	acksonville International, Craig, and	PROFESSIONA	L SERVICES	CONSTRUCTION (if Applicable)			
	Herlong Recreational Airports, Jacksonville, FL								
	23. PROJECT OWNER'S INFORMATION								
a.	a. PROJECT OWNER b. POINT OF CONTACT NAME c. POINT OF CONTACT PHONE NUMBER Jacksonville Aviation Authority J. Derek Powder, P.E. (904) 741-2225								
24.	24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)								
AV the Jac pro cor	CON ha Jacks ksonvill jects cc htract ha X Re (2 pr cc cc st	as served as a Prime Con sonville Aviation Author e Port Authority since impleted under this Prime we included: ehabilitation of Airfield 010-2012): AVCON is pro- eparation of construct instruction phase services instruction, and restoratio inface grades immediately propriate AVCON is	sultant and subconsultant to rity and is predecessor 1989. Samples of recent General Consulting Services Drainage System - Craig viding inspection, evaluation, ion documents, bidding, for rehabilitative repairs, re- n of the pipes, inlets, and y surrounding the site, as analyzing cost-efficient			- ATT			
	re Ce ap ine dit	habilitation methods of in entricrete lining. The oproximately 4,824 linear fe ches to 60-inches in diam tch bottom inlets and open	analyzing cost-encient -place restoration such as system is comprised of eet of pipe ranging from 36- neter connected through 12 channel ditches.						
	★ Ro Ap ain ta m fu m po	ehabilitation NE Apron and pron and Taxilane at Herlor rcraft weighing less than 12 xilane, and connectors as illing 2.5 inch of the existing II apron (approximately 990 arkings will consist of taxila sitions. These markings w	nd Taxilane - Herlong (2010-O ng Recreational Airport located in 2,500 pounds or less. The scope well as placing new markings. g asphalt and placing a constant 00 square yards) and will require ane centerline markings, and non vill consist of yellow paint with ret	n-going): This a Jacksonville, of the project The rehabilitati depth overlay transitional are -movement are ro-reflective be	project involves th Florida. The aprov includes milling ar on of Northeast Ap of P-403 asphalt. eas on the taxilane ea markings enclose eads, and black out	e rehabilitation of the Northeast n serves strictly general aviation of overlaying the existing apron, oron and Taxilane will consist of The overlay will encompass the connectors. The new pavement sing the aircraft tie-down parking line paint with no beads.			
	★ Ru da eli	unway Length Justification ata, fleet mix analysis, and bility.	on Study - Cecil (2009): This p wind coverage to validate the ru	roject consiste unway length f	ed of performing a or FAA funding for	detailed analysis of operational rehabilitation options and grant			
	★ Pavement Repairs and Joint Resealing – Phases I through IV - Jacksonville (2003-On-going): AVCON provided all technical planning assistance, base drawings, engineering design, specifications, scheduling, cost estimating, bidding and construction phase services in connection with the Pavement Repairs and PCC Joint Resealing Project at Jacksonville International Airport.								
	★ Taxiway D Extension - Cecil (2008-2009): The project consisted of the design and construction of the northward extension of Taxiway D. Taxiway "D" is parallel to Taxiway "A" and is located in the northwest General Aviation Development Area. The project extended Taxiway D some 1800 feet north bypassing a contaminated site defined by a shallow and deep plume on the project sketch. The project was constructed over an abandoned munitions site and required detection and management of this environmental challenge both during design and construction.								
		25.	FIRMS FROM SECTION C INV	OLVED WITH	THIS PROJECT				
а	(1) FIR AVCO	M NAME N, INC.	(2) FIRM LOCATION (<i>City and State</i>) Orlando, Florida	(3) R Prof	OLE essional Enginee	ring Services			
b	(1) FIR	M NAME	(2) FIRM LOCATION (City and State)	(3) R	OLE				
с	(1) FIR	M NAME	(2) FIRM LOCATION (City and State)	(3) R	OLE				
d	(1) FIR	MNAME	(2) FIRM LOCATION (City and State)	(3) R	OLE				

F. EXAMPLE PR	OJECTS WHICH	I BEST ILLUSTRA	ΓΕ PROPO	SED TEA	M'S
	QUALIFICATIO	NS FOR THIS CON	TRACT		

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)											
21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED									
Sanford, FL	oriando Sanford Int'i Airport,	PROFESSIONAL 2003-On-goin	SERVICES I g	CONST 2003-0	RUCTION (if Applicable) On-going						
23. PROJECT OWNER'S INFORMATION											
a. PROJECT OWNER Sanford Airport Authority	b. POINT OF CONTACT NA Larry Dale	ME	c. POINT OF CONT (407) 585-40	ГАСТ РНО 15	ONE NUMBER						
24. BRIEF DESCRIPTION OF PROJECT AND F	RELEVANCE TO THIS CONTRACT (Inclu	ude scope, size, and	cost)								
AVCON has served as a Prime Cor 2003. Samples of projects completed contract have included:	nsultant to the Sanford Airport d under this Prime General Cons	Authority since sulting Services		L.							
★ Rehabilitation of Runway 9L-27R and Taxiway B1 (2008-2009): This \$8 million project consisted of rehabilitating Runway 9L-27R bituminous pavement. The rehabilitation included milling the entire surface of existing runway pavement and overlaying with varying depths of P-401SP Super Pave Asphalt Pavement. Also included in the project was rehabilitating Taxiway B1 bituminous pavement and paving an existing grass island within the Terminal ramp area. AVCON provided evaluation of the existing condition of the runway pavement, developed a rehabilitation strategy, and prepared construction documents.											
★ Runway 9C-27C Rehabilit rehabilitation of a General A overlaid twice since. The stu thoroughly analyzed to ensu GA fleet mix and ADG-V a consisted mostly of engineer course.	tation (2004): This project co viation runway originally built in ructural strength of the runway ire that it would be appropriate t aircraft - such as A330s. Th red milling and overlay of the as	nsisted of the the 1940s and pavement was for the forecast e rehabilitation sphaltic surface	×								
★ 44,000 Square Foot Hangar for design, bidding, and pern nine-acre (9 Acres) project project also included prepara Package for a 44,000 square 5,000 square feet of attach Maintenance/Shop Area, included											

- Airfield Electrical System Upgrade and Airfield Lighting Control System (ALCS) (2004): AVCON provided evaluation of the existing airfield lighting lightning protection (counterpoise) system, assisted with counterpoise installation, updated an Airfield Lighting Control System (ALCS) panel, and assisted with Airfield Lighting Vault (ALV) modifications which consisted of removal of the wall between the existing generator room and the fuel tank room.
- ★ Airfield Improvements (2008-2009): AVCON provided technical assistance, field inventory, field survey, engineering design, specifications, quantity takeoffs, cost estimating, and support services in connection with an Airfield Improvement project at Orlando Sanford International Airport. The project consisted of the following four major work items: Inventory and Rehabilitation of Airfield Signage, New Signage and Markings for Taxiway K1, Rehabilitation of Lighting and Underground Electrical for Taxiway C East, and Rehabilitation of Lighting and Underground Electrical for Taxiway R.
- Environmental Assessment for the Extension of Runway 9L-27R (2007): The Environmental Assessment (EA) for the \star proposed extension of Runway 9L-27R at the Orlando Sanford International Airport (SFB) was prepared in accordance with the guidance provided in Federal Aviation Administration (FAA) Order 5050.4B. The EA also included an assessment of the relocation of the precision approach instrument landing system (ILS) for Runway 9L-27R.

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT										
а	(1) FIRM NAME AVCON, INC.	(2) FIRM LOCATION (City and State) Orlando, Florida	(3) ROLE Professional Engineering Services								
b	(1) FIRM NAME Universal Engineering Sciences, Inc.	(2) FIRM LOCATION (<i>City and State</i>) Orlando, Florida	(3) ROLE Geotechnical Engineering								
С	(1) FIRM NAME Cal-Tech Testing, Inc.	(2) FIRM LOCATION (City and State) Jacksonville, Florida	(3) ROLE Construction Materials Testing								
d	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE								

	EAM'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.)

· · · · ·		, , ,							
21. TITLE AND LOCATION (City and State)		22. YEAR COMPLETED							
General Consulting Services – Naples N Naples, FL	Municipal Airport,	PROFESSIONAL SERVIO	CES	CONSTRUCTION (if Applicable) 2003-2009					
23. PROJECT OWNER'S INFORMATION									
a. PROJECT OWNER Naples Airport Authority	b. POINT OF CONTAC Theodore Solid	CT NAME lay, C.M.	c. POINT OF (239) 643	CONTACT PHONE NUMBER 3-0733					
24. BRIEF DESCRIPTION OF PROJECT AND RELEVAN	ICE TO THIS CONTRACT	(Include scope, size, and o	cost)						

AVCON served as a Consultant to the City of Naples Airport Authority (NAA) and Naples Municipal Airport (APF) from 2003-2009. Among the projects completed for the Authority are the following:

- ★ Taxiway B Extension (2009): Design/Build. Extended Taxiway B and provided engineering design for pavement, airfield lighting, signage, markings, and stormwater improvements.
- ★ Airfield Marking Plan Update (2008): Provided design services for the complete remarking of the airfield, along with bidding and construction phase services.
- ★ Airport Access Control System Upgrade (2007): This work covered the preparation of a design/build scope document, performance specifications and schematic drawings depicting the installation and replacement of the Airport Access Control System, card Readers, Gate Operators, and related equipment at APF.
- ★ Wildlife Survey and Wildlife Management Plan (2007): This project incorporated the following: identification of protected species of flora and fauna both on the airport and adjacent to the airport including, but not limited to, bald eagles, ospreys, owls, wading birds, rookeries (nest areas) and the like; a mapped survey with limited field inspection of all airport wetlands for the purpose of identifying attractions for wading birds and related species; documentation of existing protected species including bald eagle reports, natural areas inventory, Florida Fish and Wildlife Commission, U.S. Fish and Wildlife reports. Naples Airport bird strike data and recently completed Regional Planning Council reports will be incorporated into high, medium and low probability areas for potential wildlife impacts; and completion of a Wildlife Management Plan that recommends actions to be taken to minimize wildlife impacts compatible with FAA requirements.

Airport Hangar and Building Restoration Program (2006-2007):



Provided all technical assistance, final detailed field assessments, schematic base drawings and details, photo-based descriptions of various repairs, estimate of quantities for comparative bidding purposes, front-end drawings (safety, access, general notes, phasing), specifications, scheduling, cost estimating, bidding phase services and resident construction p hase services in connection with the Authority Hurricane Repair Program at APF. The final project made substantial repairs to over 100 hangars damaged by storm winds.

- Emergency Repairs to Airport Lighting Systems (2006): Design/Build. This project incorporated both design and build component to repair and replace the airport lighting beacon and tower, ODALS light station adjacent to Airport Road N., and a general aviation highmast light pole damaged in a hurricane event.
- ★ General Aviation Terminal and Commercial Aviation Terminal (GAT and CAT) Roof Replacement (2006): This work covered the design and repair and/or replacement of various roofing elements on the GAT and CAT following damages caused by a series of hurricanes which impacted the airport.
- ★ Standby Generator Installation (2004-2006): Provided technical assistance, design criteria, performance requirements, specifications, plan sketches and cost estimating services in connection with the preparation of a procurement document covering the installation of standby generator(s) and associated equipment at the Naples Municipal Airport. Ultimately this construction work was completed by AVCON acting in an electrical contract role with our sister construction group firm.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

а	(1) FIRM NAME AVCON, INC.	(2) FIRM LOCATION (<i>City and State</i>) Orlando, Florida	(3) ROLE Professional Engineering Services
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G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS											
26. NAMES OF KEY PERSONNEL (From Section E,	27. ROLE IN THIS CONTRACT (From Section E,	(Fill i	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)								
Block 12)	Block 13)	1	2	3	4	5	6	7	8	9	10
Russ Holliday, P.E.	Project Manager/Engineer	x	x		x		x	x	x		
Sandeep Singh, P.E.	Principal-in-Charge	x	x		x		x	x	x	x	x
James A. Kriss, P.E.	Quality Assurance / Quality Control	x	x	x	x	x	x	x	x	x	x
Tim Shea, A.A.E.	Aviation Management Support	x	x		x			x	x	x	
Robert K. Hambrecht, P.E.	Project Engineer										
Hilary Maull, P.E.	Project Engineer				x		x			x	
Carl S. Johnson II, E.C., A.C.E.	Senior Electrical Designer	x	x	x	x	x	x	x	x	x	x
Mark Goodacre, A.C.E.	Electrical Designer	x		x	x				x	x	
Robert H. Palm, P.E.	Senior Project Engineer		x			x	x		x		x
Mary Soderstrum, AIA, NCARB, LEED [®] AP BD+C	Senior Airport Planner	x	x						x	x	
Lee Lewis, P.E.	Airport Planner			x		x			x		x
Zemp B. Pepper, P.E.	Mechanical / Electrical / Plumbing / Fire Protection Engineer		x						x		
Luca DelVerme, P.E.	Structural Engineer	x							x	x	x

	G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS									
29. EXAMPLE PROJECTS KEY										
NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)							
1	General Consulting Services - Kissimmee Gateway Airport, Kissimmee, FL	6	General Consulting Services - Okeechobee County Airport, Okeechobee County, FL							
2	General Consulting Services - Wauchula Municipal Airport, Wauchula, FL	7	Rehabilitation of Runway 5-23, Jacksonville Executive at Craig Airport; Rehabilitation of Runway 7-25, Herlong Recreational Airport; Jacksonville, FL							
3	General Consulting Services - Perry-Foley Airport, Taylor County, FL	8	General Consulting Services – Jacksonville International, Cecil, Jacksonville Executive at Craig, and Herlong Recreational Airports, Jacksonville, FL							
4	Rehabilitate Electrical Vault and Airfield Signage, Martin County Airport / Witham Field, Stuart, FL	9	General Consulting Services – Orlando Sanford International Airport, Sanford, FL							
5	Stormwater Master Plan and Taxiway Rehabilitation and Widening, Bob Sikes Airport, FL	10	General Consulting Services – Naples Municipal Airport, Naples, FL							

ARCHITECT – ENGINEER QUALIFICATIONS 1. SOLICITATION NUMBER ((f any) 946-11333 PART II – GENERAL QUALIFICATIONS (If a firm has branch offices, complete for each specific branch office socking work.)

(If a firm has	s branch offices, c	each specific brai	nch c	office seeking work	.)			
2a. FIRM (OR BRANCH OFFICE) NAME AVCON, INC.	3.	YEAR ESTABLISHED 1988	4. DUNS NUMBER 60-672-0266					
2b. STREET 101 NW 3 rd Avenue, Suite 30	a.	5. OWNERSHIP a. TYPE						
2c. CITY Fort Lauderdale		2d. STATE FL	2e. ZIP CODE 33301	b.	TUS			
6a. POINT OF CONTACT NAME AND TITI James A. Kriss, P.E., Vice Pr	7.	Small Business, DBE, MBE 7. NAME OF FIRM (If block 2a is a branch office) AVCON						
6b. TELEPHONE NUMBER (754) 200-2030	6c. E-MA jakr	IL ADDRESS iss@avconii	nc.com					
8a. FC	8b	. YR. ESTABLISHED	8c. DUNS NUMBER					

	9. E	MPLOYEES BY DISCIPI	LINE		10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS				
a. Function Code		b. Discipline	c. No. o (1) FIRM	f Employees (2) BRANCH	a. Profile Code	b. Experience	c. Revenue Index Number		
02	Administr	ative	10	0	A05	Airports; Navaids; Airport Lighting; Aircraft Fueling	6		
08	CADD Tec	hnician	11	0	A06	Airports; Terminals & Hangars; Freight Handling	4		
12	Civil Engi	neers	15	0	B02	Bridges	4		
15	Construct	ion Inspector	5	0	C18	Cost Est; Cost Eng& Analysis; Param. Cost.; Forecast	1		
21	Electrical	Engineers	2	0	D04	Design-Build - Preparation of Requests for Proposals	1		
42	Mechanica	al Engineer	1	0	E02	Educational Facilities; Classrooms	1		
48	Project Ma	anager	1	1	H07	Highways; Streets; Airfield Paving; Parking Lots	6		
57	Structural	Engineers	2	0	106	Irrigation; Drainage	1		
60	Transport	ation Engineers	2	0	O01	Office Buildings; Industrial Parks	1		
	Airport Pla	anner	1	0	P05	Planning (Community, Regional, Areawide & State)	1		
	Engineer	Intern (Mechanical)	2	0	P06	Planning (Site, Installation, & Project)	2		
					P13	Public Safety Facilities	1		
					R03	Railroad; Rapid Transit	1		
					R04	Recreation Facilities (Parks, Marinas, Etc.)	1		
					S09	Structural Design; Special Structures	1		
					S13	Storm Water Handling & Facilities	2		
					T03	Traffic & Transportation Engineering	1		
					U03	Utilities (Gas and Steam)	1		
					W03	Water Supply; Treatment & Distribution	1		
					Z01	Zoning; Land Use Studies	1		
	Other Emp	loyees	0	0					
	•	Total	52	1					
11. ANNUAL	AVERAGE PI REVENUE FOR LAST	ROFESSIONAL SERVICES S OF FIRM 7 3 YEARS	1. Less th	PROFESSIONAL SERVICES REVENUE INDEX NUMBER					
	ovonuc macz i	ambor shown at right)	2. \$100,0	00 to less than \$2	50,000	7. \$5 million to less than \$10 million			
a. Federal W	ork	3	3. \$250,0	00 to less than \$5	00,000	8. \$10 million to less than \$25 million			
b. Non-Federal Work 7			4. \$500,0	00 to less than \$1	million	9. \$25 million to less than \$50 million			

 c. Total Work
 7
 5. \$1 million to less than \$2 million
 10. \$50 million or greater

 I2. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.

a. SIGNATURE

- A. K an

February 7, 2014

B. DATE

c. NAME AND TITLE

James A. Kriss, P.E., Vice President – Aviation Services / AVCON Project Manager

AUTHORIZED FOR LOCAL REPRODUCTION MANDATORY USE DATE OF FORM 5/1/2004

STANDARD FORM 330 (6/2004)

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT											
12	. Name	Michae	I M. Mo	ossey,	P.S.M.		13. Role	in this contract	Senior Projec	t Surveyor		
14	. Years I	Experience	Total	37	With Firm	8	15. Firm	m Name and Location Xeith and Associates, Inc. 301 East Atlantic Boulevard Pompano Beach, FI 33060				
16	. Educat	ion (Degree	and Spec	alizatior	ı)	1	1	17. Current Profes	sional Registration (S	State and Discipline)		
M	aryville	e College	, Maryv	ille, Te	nnessee			Professional S	Surveyor & Map	per, Florida #5660		
18 Fl 20	 Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.) Florida Society of Professional Surveyors & Mappers, Secretary, Broward Chapter, FSMS, 1999-2000 and 2000-2001 											
19	19. Relevant Projects											
	Title and	d Location (C	ity & State	e) * Year (Completed (Er	ng. / Const.) * Role * E	Brief Description (Scor	oe, Size, Cost, etc.)	Performed with current firm		
a.	 Fort Lauderdale/Hollywood International Airport Utility Atlas Update for South Runway Expansion 9R/27L, Ft. Lauderdale, Florida Professional Services – On-Going Construction Services – N/A As Sub-Consultant to RS&H, Keith & Associates, Inc. is currently tasked with providing the preconstruction design survey, horizontal and geodetic control surveys and aerial photography survey support. 											
	Title and	d Location (C	ity & State	e) * Year (Completed (Er	ng. / Const) * Role * E	Brief Description (Scor	oe, Size, Cost, etc.)	Performed with current firm 🛛		
b.	 Professional Services – Completed 2011 Construction Services – N/A As a Sub-Consultant to Kimley-Horn and Associates, Keith and Associates provided Boundary and Engineering Design Surveys for this 1,200 acre City of Ft. Lauderdale airport property. This project includes milling, resultacing along with enhancements to turn-offs and entrances to tenant ramps, and reconstruction of the pavement along Taxiway Bravo, including widening of the taxiway intersections. Construction will consist of grading, embankment, stabilized subgrade, compacted limerock base, paving, airfield lighting and electrical work, turfing, pavement markings and other related work 									undary and Engineering ect includes milling, re- d reconstruction of the struction will consist of ting and electrical work,		
	Title and	d Location (C	ity & State	e) + Year (Completed (Er	ng. / Const.) * Role * E	Brief Description (Scor	oe, Size, Cost, etc.)	Performed with current firm		
c.	Fort Lauderdale Executive Airport (FXE) Taxiway Golf Relocation, Ft. Lauderdale, Florida Professional Services – Completed 2012 Construction Services – N/A Mr. Mossey served as Project Surveyor for this project, in which he assisted the City with the survey submittal process to the FAA for the Taxiway Golf project in accordance with FAA/NGS requirements. Keith and Associates provided surveying services											
	Title and	d Location (C	ity & State	e) + Year (Completed (Er	ng. / Const.) * Role * E	Brief Description (Scop	oe, Size, Cost, etc.)	Performed with current firm		
 Fort Lauderdale Executive Airport (FXE) Customs Building, Ft. Lauderdale, Florida d. Professional Services – Completed 2012 Construction Services – N/A Mr. Mossey provided surveying services which included a boundary survey required for th Replacement Building at Fort Lauderdale Executive Airport. 								ired for the Customs				
	Title and	d Location (C	ity & State) • Year (Completed (Er	ng. / Const.) * Role * E	Brief Description (Scor	pe, Size, Cost, etc.)	Performed with current firm		
e.	Pompano Air Park Hangers, Pompano Beach, Florida Professional Services – Completed 2012 Construction Services – N/A Keith and Associates prepared a boundary and topographic survey for the SheltAir lease parcel at Pompano Air Park.											

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT											
12	. Name	James	Thiele,	PE		-	13. Role	in this contract	Director of En	gineering		
14	14. Years ExperienceTotal36With Firm315. Firm Name and LocationKeith and Associates, In 301 East Atlantic Boulev Pompano Beach, FL 330				ciates, Inc. ic Boulevard h, FL 33060							
16	. Educati	on (Degree	and Spec	ialization)			17. Current Profes	sional Registration (S	State and Discipline)		
	B.S. in Civil Engineering, University of Miami, 1978 Commonwealth of Pennsylvania Professional Engineer #53735											
18	 Other Professional Qualifications (Publications, Organizations, Training, Awards, etc.) N/A 											
19	. Relevar	nt Projects										
	Title and	Location (C	City & State) * Year C	Completed (En	ng. / Const.) * Role * E	Brief Description (Scor	e, Size, Cost, etc.)	Performed with current firm 🛛		
a.	Fort Lauderdale-Hollywood International Airport (FLL) – 9R/27L Runway Expansion Design Team (Fort Lauderdale, FL) Professional Services – On-Going Construction Services - On-Going Responsible for the preliminary engineering and design of all utilities, earthwork, grading and portions of the stormwater management system associated with the 8,000 foot runway expansion project. Additional responsibilities include the preparation of the Design Criteria Package for the Design/Build portion of the tunnel and bridge section over the FEC Railroad, US 1 and Interstate 595 entrance ramps. Mr. Thiele is directly responsible for supervision of Civil Inspection Representatives during the construction phase.											
	Title and	Location (C	City & State) * Year C	Completed (En	ng. / Const.) * Role * E	Brief Description (Scor	oe, Size, Cost, etc.)	Performed with current firm		
b.	The C Profes Keith a and gr the C manag	ove Sho sional Se and Asso avity dra ove Mar gement fo	pping C ervices – ociates p inage we ina and or phase	enter, I Compl rovided ell, and Intrac s 2, 3 a	Deerfield leted 2013 engineeri parking lo coastal Wa nd 4 of co	Beach, ng desig ot design aterway. nstructio	Florida Constru on and p for this Mr.	uction Services – ermitting service 6.7 acre city ow Thiele supervise	Completed 2013 s including topog ned property loca es construction	raphic survey, drainage ated directly adjacent to inspection and project		
	Title and Location (City & State) * Year Completed (Eng. / Const.) * Role * Brief Description (Scope, Size, Cost, etc.) Performed with current firm 🛛											
c.	Pompano Beach Boulevard Streetscape, Pompano Beach, Florida Professional Services – Completed 2010 Construction Services – Completed 2013 Keith and Associates prepared drainage, water distribution and pavement design for this roadway/ streetscape overhaul project. The work being proposed will provide for a more modern beachfront access way with improved parking and pedestrian walkways. Mr. Thiele is performing quality control and quality assurance reviews on the design and will supervise the construction phase of the project. Construction is scheduled to start in October 2010 and Keith and Associates will perform construction inspection duties in order to prepare and submit the construction certification of completion to all governing permitting agencies											
	Title and	Location (C	City & State) ∗ Year C	Completed (En	ng. / Const.) * Role * E	Brief Description (Scor	oe, Size, Cost, etc.)	Performed with current firm		
d.	Gove Elementary School, Belle Glade, Florida Professional Services – On-Going Keith and Associates is preparing a land development plan for this new school facility including the design and permitting of all land development infrastructure. Mr. Thiele is responsible for the project design quality control and quality assurance oversight including supervision of construction phase services.											
	Title and	Location (C	City & State) * Year C	Completed (En	ng. / Const.) * Role * E	Brief Description (Scor	pe, Size, Cost, etc.)	Performed with current firm		
e.	Professional Services – On-Going Construction Services - On-Going The project included a 750 square foot chiller plant building and cooling tower yard for Pompano Beach City Hall. The new chiller plant will provide energy efficient air-conditioning to City Hall and the Commission Chambers while reducing energy costs to the City. The impacted area around the proposed chiller plant increased the entire site pervious area by 619 square feet and also required the elimination of four parking spaces. Keith and Associates provided Planning, Civil, Survey and SUE services including layout and processing of the site plan, utilities design and permitting through all agencies having jurisdiction.											

			E	. RESU	MES OF K	EY PERS	ONNEL	PROPOSED FOR	THIS CONTRACT			
12.	Name	Alex La	zowick	κ, Ε.Ι.			13. Role	in this contract	RPR			
14.	. Years E	xperience	Total	14	With Firm	4	15. Firm	Name and Location	Keith and Asso 301 East Atlant Pompano Beac	ciates, Inc. ic Boulevard h, Florida 33060		
16.	Educati BS, C	on (Degree ivil Engi i	and Spec neering	ialization , Unive) ersity of N	orth Flo	rida	17. Current Profes Engineer Ir	sional Registration (S Itern, Florida #11	tate and Discipline)		
18.	 Other Professional Qualifications (<i>Publications, Organizations, Training, Awards, etc.</i>) ASCE Member/Team Captain for Competitions, FES Member, 2nd Place in PCI Big Beam Competition in 2009 & 2010, Asphalt Paving Technician Level 1 & 2 (FDOT), Earthwork Construction Inspection, Level 1 (FDOT), Concrete Field Technician, Level 1 (FDOT), Troxler Nuclear Gauge, Final Estimates Level 1 (FDOT), FDOT Workzone Traffic Control Intermediate Level MOT, 30 Hour OSHA General Industry safety and health hazard recognition and prevention 											
19.	. Relevar	nt Projects										
	Title and	Location (C	City & State) • Year C	Completed (Er	ng. / Const.) * Role * E	Brief Description (Scop	oe, Size, Cost, etc.)	Performed with current firm		
a.	Fort Lauderdale / Hollywood International Airport (FLL) 9R/27L Runway Expansion Lead Design Team Professional Services – On-going Construction Services – On-going Mr. Lazowick was responsible for the coordinating and overseeing designations and locations of all geotechnical borings associated with the design efforts for the 8,000 foot south runway expansion project. He assisted with the development of conceptual runway extension design alternatives. He provided design and permitting of the 24" ^{a.} water and 16" sewer transmission utility main relocations. His Duties also included providing drainage, cross- sections and grading design for the new south runway and taxiway system and engineering inspections to confirm site conditions as needed. Mr. Lazowick inspected the WM/FM transmission lines which included the new 24" water transmission main that will feed all the terminals and the west hangars. In addition to the water main, he also preformed inspections on the sanitary sewer force main that feeds the south terminals, and inspections on the relocation of south perimeter road. He also assisted with utility and roadway conceptual design for the Design Criteria Package for the U.S. 1/EEC PR Structures for the Expansion of Purvue 0P. 271, et El.L. (Design Purild)											
	Title and	Location (C	City & State) * Year C	Completed (Er	ng. / Const.) * Role * E	Brief Description (Scop	oe, Size, Cost, etc.)	Performed with current firm		
b.	Fort L Profes Mr. La entire AC150	auderda sional Se zowick w FLL airfie)/5300-18	le / Holly ervices – vas respo eld and t BB to be	ywood On-go onsible the pop utilized	Internation ing for the fie pulation of for the Air	onal Airı Id verific attribute rport Lay	port (FL Constru ation an data w out Plar	L) AGIS Safety ction Services – id data collectior ithin the elevate in (ALP) as well a	Critical Airfield S On-going of all the elevate d signs AutoCAD s future planning	Signage Survey ed airport signage on the drawings in accord with efforts.		
	Title and	Location (C	City & State) * Year C	Completed (Er	ng. / Const.) * Role * E	Brief Description (Scop	oe, Size, Cost, etc.)	Performed with current firm		
c.	 The Cove Shopping Center Parking Facilities, Deerfield Beach, FL Professional Services – Completed 2013 Construction Services – Completed 2013 c. Terminal Access Roadway Interchange & Entrance Roadways: Mr. Lazowick provided inspections of demolition water distribution, system installation and testing, painting, lamping/video inspection and testing, shoulder an roadway construction milling and resurfacing, roadway and drainage system construction. Signage and pavement marking installation/application, curb/sidewalk construction. 							spections of demolition, d testing, shoulder and Signage and pavement				
	Title and	Location (C	City & State) * Year C	Completed (Er	ng. / Const.) * Role * E	Brief Description (Scop	oe, Size, Cost, etc.)	Performed with current firm		
d.	Blanche Ely High School – School Board of Broward County, Pompano Beach, FL Professional Services – Completed 2011 Construction Services – Completed 2011 Mr. Lazowick provided construction engineering inspections for the final stages of the school's stadium project facilitated through a Design Build Contract with Balfour Beatty Construction. This project included complete reconstruction associated with the new football stadium, track and concession stand.											
	Title and	Location (C	City & State) * Year (Completed (Er	ng. / Const.) * Role * E	Brief Description (Scor	oe, Size, Cost, etc.)	Performed with current firm		
e.	Runway 13/31 Rehabilitation Project, Fort Lauderdale / Hollywood International Airport (FLL) Professional Services – Completed 2013 Construction Services – Completed 2013 This project included full depth reconstruction of touchdown intersections at Taxiway "A" and Taxiway "C" and consists of milling and resurfacing at the North approach end of Runway 13/31 at Taxiway "C" and Taxiway "D" areas. Mr. Lazowick provided all CEI services, checking material with specifications & coordination with contractor											

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT 22. Year Completed Ft. Lauderdale Executive Airport (FXE) 20. Example Project 21. Title and Location Professional Construction Key Number (City and State) SheltAir Hangar, Ft. Lauderdale, FL Services (if Applicable) On-going On-going 23. Project Owner's Information Holland SheltAir Aviation Group a. Project Owner John Sobol, Vice President/Construction b. Point of Contact Name c. Point of Contact Telephone Number (954) 771-2210

24. Brief Description of Project and Relevance to this contract (include scope, size and cost)

Ft. Lauderdale Executive Airport (FXE) SheltAir Hangar, Ft. Lauderdale Beach, FL (Estimated Project Value: \$600,000.00)

This project proposes demolition of small scale aviation aircraft angers on approximately 6 acres of leased property at the Ft. Lauderdale Executive Airport (FXE). There are 3 proposed modern hangar structures proposed with 52,800 sqft of hangar space and 7,440 sgft of office space. Associated paving, drainage, water distribution, sanitary sewer and landscape improvements are included in the site infrastructure improvement.

Keith and Associates is responsible for the surveying, preliminary engineering, landscape and irrigation plans, construction administration, and subsurface utility

engineering (S.U.E.) services for the existing site. The renovation design will include preparations of the site plan and preliminary engineering drawings. Following the approval of the site plan, K&A will prepare final engineering plans and calculations for the pavement, drainage, water distribution and sanitary sewer system improvements. A final landscape and irrigation system plan will be prepared and will meet local landscape ordinances as well as FAA regulations and recommendations for the landscape in this airport. K&A will also prepare elaborating site inventory and assessments of the existing landscape to develop tree disposition that meets DERM regulations for tree removal. The plans will be submitted for approval and applicable permitting through all applicable local, county and state agencies.

K&A is also responsible for the construction phase services for this project. This will include review of shop drawings and as-builts reward drawings. Periodic site inspections will be performed by K&A in accordance with the applicable permit conditions.

	25. Firms from Section C involved with this Project									
	(1) Firm Name	(3) Role								
a.	Keith & Associates, Inc.	Pompano Beach, Florida	Surveying, Engineering, Landscape Architecture, SUE, Construction Admin							
b.										

F. EXAMPLE PROJE	CTS WHICH B	EST ILLUS	STRATE PROPOSED TEAM'S QUALIFICATIONS F	OR THIS CON	TRACT				
			Miscellaneous Surveying Services for	22. Year Completed					
20. Example Project Key Number	21. Title an <i>(City ar</i>)	d Location ad State)	Ft. Lauderdale Executive Airport (FXE), Ft. Lauderdale, FL	Professional Services 2013	Construction (<i>if Applicable</i>) 2013				
23. Project Owner's Inform	mation								
a. Project Owner	a. Project Owner City of Fort Lauderdale								
b. Point of Contact Name Mr. Dave R. Bardt, PE, Senior Vice President (Kimley-Horn and Assoc)									
c. Point of Contact Telephone Number (561) 845-0665									
	24. Brief Des	cription of Pr	oject and Relevance to this contract (include scope, size and	d cost)					

Keith and Associates, Inc provided general surveying services as a Sub-Consultant to Kimley-Horn and Associates, Inc. on their general engineering contract with Fort Lauderdale Executive Airport (FXE). Projects which we worked on:

- **FXE Customs Building:** Mr. Mossey provided surveying services which included a boundary survey required for the Customs Replacement Building at Fort Lauderdale Executive Airport.
- FXE Taxiway Bravo Resurfacing: Keith and Associates provided Boundary and Engineering Design Surveys for this 1,200 acre City of Ft. Lauderdale airport property. This project included milling, re-surfacing along with enhancements to turn-offs and entrances to tenant ramps, and reconstruction of the pavement along Taxiway Bravo, including widening of the taxiway intersections. Construction will consist of grading, embankment, stabilized subgrade, compacted limerock base, paving, airfield lighting and electrical work, turfing, pavement markings and other related work.
- ➤ FXE Taxiway Charlie & Delta Rehabilitation: Keith and Associates provided surveying services associated with the rehabilitation of Taxiways Charlie and Delta at Fort Lauderdale Executive Airport. K&A was tasked with: preparing a Specific Purpose Survey within the project limits; the topographic data shall be obtained throughout the site on a 20-foot grid with obvious intermediate high and low areas obtained; horizontal and vertical location of all existing surface features including: centerline of pavement markings (striping), edge(s) of pavement, taxiway lighting, signage, electrical boxes, utility structures, runway and FAA utility markers.
- FXE Taxiway Echo Rehabilitation: Keith and Associates provided surveying services associated with the rehabilitation of Taxiways Echo at Fort Lauderdale Executive Airport. The Survey limits consisted of 100 feet north of the centerline of Taxiway Echo to the intersection with Runway 8 on the south and a width of 100 feet centered on the taxiway centerline, as well as areas for the taxiway connectors at E2, Hotel, and Quebec along Taxiway Echo. K&A provided the following services: set adequate project horizontal control and references; establish baselines at 100-foot stations for the rehabilitated taxiway; set project benchmarks; perform a topographic survey within the survey limits to locate all above-ground features and all evidence of below-ground features; obtain elevations within the survey limits using a 20-foot grid; locate and obtain surface elevations at soil borings; confirm horizontal and vertical control prior to construction; map the survey and provide files electronically and in hardcopy.

	25. Firms from Section C involved with this Project									
	(3) Role									
a.	Keith and Associates, Inc.	Pompano Beach, Florida	Misc. Surveying Services							
b.										

	G. KEY PERSONNEL PARTICI	PATIO	N IN EX	XAMPL	E PRO	DJECT	S				
26. NAMES OF KEY PERSONNEL (From Section E, Block 12) 27. ROLE IN THIS CONTRACT (From Section E, Block 13)		28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
	Diock 13)	1	2	3	4	5	6	7	8	9	10
Michael Mossey, PSM	Senior Project Surveyor	•	•								
Daniel Checchia	Director of Subsurface Utility Engineering (SUE)	•	•								
Jim Thiele, PE	Director of Engineering, Engineer of Record	•									
Alex Lazowick, El	RPR	•									

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Ft. Lauderdale Executive Airport (FXE) SheltAir Hangar, Ft. Lauderdale, Florida	6	
2	Misc. Surveying Services for Ft. Lauderdale Executive Airport (FXE), Ft. Lauderdale, Florida	7	
3		8	
4		9	
5		10	

								1. SOLICITATION	NUMBER <i>(if any)</i>		
								RFQ 946-11333			
		F		– GENE	ERAL	QUALIFI	CATIONS				
			ffices, c	complete	e for ea	ach spec	fic branch of	TICE SEEKING WO	rk.)		
Keith and	Associate							1998			
2b. STREET		53, 110.					1990				
301 East	Atlantic Bo	ulevard									
2c. CITY				2d.	STATE	2e. ZIP C	ODE	Corporation			
Pompano	Beach			FL		33060	b. SMALL BUSINESS STATUS				
6a. POINT OF	F CONTACT NA	AME AND TITLE				-	DBE-SBE-CBE-W/MBE				
A. Dodie	Keith-Lazo	wick, President								(()	
6b. TELEPHC	ONE NUMBER	60	. E- MAIL	ADDRES	SS			N/A	(If DIOCK 2a is a branci	п оппсе)	
954.788-3	3400	<u>d</u>	<u>keith@</u>	<u>keith-a</u>	issocia	ates.con	<u>1</u>				
8a. FORMER	FIRM NAME(S) (If any)						8b. YR. ESTABLIS	SHED 8c. DUNS	NUMBER	
N/A							40.000			A	
	9.	EMPLOYEES BY DISCIPLINE					ANNUAL AV	ERAGE REVENUE	FOR LAST 5 YEARS		
a Function			c. No.	. of Emplo	oyees	a Profile				c. Revenue	
Code		b. Discipline		m (2) l	Branch	Code		b. Experience		Number	
02	Administr	otivo	0			106	Airporto: To	minals and U	2222	(see below)	
02			9			AU0 B00	Alipons, re		anyars	4	
12	CADD TE		2			Б02 С07		Sridges			
12			0			C07	Coastal Eng				
10			/			C10	Commercia	ommercial Building (Low Rise)			
10	Construct	ion Manager	2				Community	nunity Facilities			
29	G.I.S. Spe		1			015	Constructio				
38	Land Sur	/eyor, PLS	4			C16	Constructio				
39	Landscap	e Architect, RLA	1			E02	Educationa	Itional Facilities			
47	Planner: 0	Jrban/Regional	2			F02	Field House	es; Gyms; Stad	iums	2	
48	Project El	ngineer	5			G04	G.I.S. Servi	ces; Developm	ient, Analysis	1	
53	Schedule	r ald Onau	1			H07	Highways, Streets, Airfield Paving			2	
	Survey FI		21			HU9	Hospitais &	2			
	Subsurfac	ce Utility Engineer	3			106	Irrigation; D	prainage		3	
	Project Si	urveyor	1			L03	Landscape	Architecture	· · · ·	1	
						P05	Planning (C	community, Re	egional)	2	
						RU3	Railroad; R	apid I ransit		2	
						R04	Recreation	Facilities (Park	s, Marinas, etc)	1	
			+			510	Surveying; I			<u> </u>	
			+			513	Storm Wate	er nanaling & F	acilities	1	
			<u> </u>			104	iopographi	c Surveying &	iviapping	2	
						VV03	water Supp	oly; Treatment	& Distribution	2	
			65			Z01	Zoning; Lar	nd Use Studies		2	
1 SERVIC	CES REVENUE	S OF FIRM FOR LAST 3 YEAF	RS			PROFE	SSIONAL SERV	ICES REVENUE IN			
(Insert revenue index number shown at right) 1. Less than						less than	\$250,000	ь. \$2 mill 7. \$5 mill	ion to less than \$5 m	nillion	
a. Federal Work N/A 3. \$250,0			0,000 to	less than	\$500,000	8. \$10 mi	illion to less than \$25	million			
b. Ivon-Federal Work b 4. \$500,00			0,000 to nillion to	less than	\$1 million \$2 million	9. \$25 mi 10 \$50 mi	illion to less than \$50 illion or greater	million			
c. Total Work	K Contraction of the second se	6	10					10. 000 m	since of greater		
			The	e foregoin	ig is a sta	atement of	acts.				
a. SIGNATUR	RE								b. DATE		
Dalie	Beitte								01/31/2014		

c. NAME AND TITLE A. Dodie Keith-Lazowick, President

	E. RESUMES OF K (Con	EY PERSONNEL P	ROPOSED FOR for each key pers	THIS CONT	RACT					
12.	NAME	13. ROLE IN THIS CON	TRACT	,	14.	YEARS EXPERIENCE				
	Adolfo J. Cotilla, Jr., AIA				a. TOTAL	b. WITH CURRENT FIRM				
		Prin	cipal in Charge		38	29				
15.	FIRM NAME AND LOCATION (City and State) ACAI Associates, Inc.; Fort Lauderdale, Florida									
16.	EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PRO	FESSIONAL RE	GISTRATION	(STATE AND DISCIPLINE)				
E	Bachelor of Design/Architecture, 1975		NCARB Re	gistered Arc	chitect: Flo	orida AR8011				
ſ	laster of Fine Arts in Architecture/Architect	ure, 1977	Certified Ge	eneral Contr	ractor: Floi	rida CGC010769				
18	OTHER PROFESSIONAL OUALIFICATIONS (Publications Or	nanizations Training Awar	ds etc.)							
10.	Mambar: AIA - Amarican Instituto of Architacts: P(CI - Poofing Consult	ante Instituto: NP	CA – Nationa	N Roofing C	ontractors Association and				
	National Trust for Historic Preservation.									
		19. RELEVANT	PROJECTS							
	(1) TITLE AND LOCATION (City and State)			DDOFFORIONA	(2) YEAR					
	FI. LAUDERDALE EXECUTIVE AIRPORT	ADMINISTRATION	BUILDING	PROFESSIONA 201	L SERVICES					
	Fon Lauderdale, Flonda			201	13	N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		Check if	project perfo	rmed with current firm				
a.	ACAI provided architectural schematic evaluati	ons for the interior an	nd exterior renovat	tions to the FX	XE Airport A	dministration building. The				
	architectural evaluations include the addition of	of patio and lanai spa	ace at rear of fac	ility, replacing	g storefront	at large conference room,				
	replacement of restroom fixtures, floor carpet, o	ceiling tile, light fixture	es, providing lightir	ng controls, ne	ew paint sch	neme, replace entire HVAC				
	system and components, provide building sig	gnage, evaluate roof	leaks and provi	de probable	cost estima	ate as well as provide an				
	evaluation of achieving LEED certification for th	ie project.			(2) YEAR					
	FT. LAUDERDALE EXECUTIVE AIRPORT GE		ING SERVICES	PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable)				
	Fort Lauderdale, Florida			2013		N/A				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		Check if project performed with current firm						
Ь	Working with the prime consultant, Kimley-He	orn and Associates	Inc., ACAI was c	hosen to pro	vide archite	ectural services under this				
D.	General Engineering Aviation Consultant Ser	rvices contract for th	ne City of Fort L	auderdale E	xecutive Air	port and John H. Fuhrer				
	Downtown Helistop. The desired services may	include engineering	design and constr	uction manag	gement of A	irport Capital Improvement				
	Plan, surveying, structural, mechanical, electri	g, structural, mechanical, electrical engineering services, geotechnical testing services, grant support services (including								
	providing Disadvantaged Business Enterprise	e (DBE) support ser	vices), site plan	review and a	analysis, re	lated engineering support				
	(1) TITLE AND LOCATION (City and State)	ices, and architectura	i services.		(2) VEAR					
				DROFESSIONA						
			COWFLEX	FROFESSIONA	AL SERVICES	CONSTRUCTION (If applicable)				
	Fort Lauderdale Florida	Υ.		200)4	2008				
C.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		Check if	project perfo	rmed with current firm				
	Delivered as part of a General Consulting Con	ntract, ACAI served a	as the Design Crit	teria Professi	onal and De	esign Architect for this first				
	phase of a multiple phase project to house the	City's Executive Airp	ort Administration	functions. Th	ne building h	nouses a police substation,				
	an interior emergency operations center and of	fices for the airport's I	Director and staff.							
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED				
	FORT LAUDERDALE EXECUTIVE AIRPORT			PROFESSIONAL SERVICES CONSTRU		CONSTRUCTION (if applicable)				
	AIR RESCUE AND FIRE FIGHTING TRAINING	G FACILITY (ARFF)		200	08	2008				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S									
d.	The ARFF is a consolidation of the city's mult	ivities under one	roof House	d in 24 000	so ft of space the facility					
	includes apparatus area, the City's west Emer	gency Operations Ce	nter, and Fire and	Rescue Trai	ning Faciliti	es. The two story structure				
	contains fire department related offices, kitch	eping quarters for	12 firefighte	rs. The faci	ility has been designed to					
	handle airport runway emergencies as well as	landside and City fire	emergencies and	nd is serviced by an emergency generator to prevent						
	any disruption of service to the community. AC	Al's scope of services	s included the des	sign criteria, p	programming	g, architecture, engineering				
	and construction management.									
	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					
	Adolfo J. Cotilla, Jr., AIA			a. TOTAL	b. WITH CURRENT FIRM					
		Principal in Charge		38	29					
15.	FIRM NAME AND LOCATION (City and State) ACAI Associates, Inc.; Fort Lauderdale, Florida									
		19. RELEVANT PROJECTS								
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED					
	SERVICES	TMENT AIRPORTS PLANNING	PROFESSIONAL	L SERVICES	CONSTRUCTION (if applicable)					
	Broward County, Florida		201	2	N/A					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE	🛛 Check if p	project perfo	rmed with current firm					
e.	Working with the prime consultant. Leigh Fish	per Inc. ACAI was chosen to provid	le continuina F	Planning an	d Design services for the					
	Broward County Aviation Department. Work inc	cludes the development of Design Guid	delines for Fort	Lauderdale	e - Hollywood International					
	Airport. The scope of services included the p	production of Design Standards for th	e Terminal Ar	reas of For	t Lauderdale International					
	Airport. The goal of these standards is to e	ture developm	nent of the	Terminal areas; create a						
	descriptive criteria regarding appearance, cost	and maintenance goals; establish a fo	ormat for the G	uidelines, a	ind establish a process for					
				(2) VEAP						
	(1) THEE AND EDGATION (ORY and State)		PROFESSIONAL	L SERVICES	CONSTRUCTION (if applicable)					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE								
f.			Check if project performed with current firm							
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED					
			PROFESSIONAL	L SERVICES	CONSTRUCTION (if applicable)					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE	Check if p	oroject perfo	rmed with current firm					
h.										
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED					
			PROFESSIONAL	L SERVICES	CONSTRUCTION (if applicable)					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE	Check if n	project perfo	rmed with current firm					
i.				noject peno						
	(1) TITLE AND LOCATION (City and State)			(2) YEAR						
			PROFESSIONAL		CONSTRUCTION (if applicable)					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		roigot porfo	rmod with ourront firm					
j.				noject perio	imea with current IIIII					

	E. RESUMES OF K	EY PERSONNEL P	ROPOSED FOR	THIS CONT	RACT	
12.	NAME	13. ROLE IN THIS CON	TRACT		14.	YEARS EXPERIENCE
	DONALD M. WILKIN, RA	_			a. TOTAL	b. WITH CURRENT FIRM
		Pr	oject Architect		34	3
15.	FIRM NAME AND LOCATION (City and State) ACAI Associates, Inc.; Fort Lauderdale, Florida					
16.	EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PRO	FESSIONAL RE	GISTRATION	(STATE AND DISCIPLINE)
E	3.A. Architecture/1983/Architecture	- Desire	Registered F	onua Archite	CI NO. 6011	
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Orc	De Design ganizations, Training, Awar	ds. etc.)			
	NCARB Certified CPTED Certified Profession	al Liability Educatio	on Program Cert	ificate Form	ner Citv of	Fort Lauderdale Historic
	Preservation Advisory Board Member, Tau Sigma	Delta Honor Society	in Architecture a	nd Allied Arts		
		19. RELEVANT	PROJECTS			
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED
	BROWARD COUNTY RAVENSWOOD BUS	AINTENANCE FAC	ILITY	PROFESSIONA	AL SERVICES	CONSTRUCTION (if applicable)
	Fort Lauderdale, Florida			On-g	oing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE			voie et nerfer	med with ourrent firm
	ACAI Associates was selected by Broward Cou	nty. Florida to provide	e programming, de	sign and con	struction ad	ministration services for the
•	replacement of facilities at the Ravenswood Bu	s Maintenance Facilit	y. The 9-acre si	te will be rec	onfigured, re	placing the existing 1970's
a.	structures with new state-of-the-art facilities for cu	irrent and future needs	. When completed	d, the facility w	ill accommo	date up to 150 fleet vehicles
	including (130) 40-foot buses and (20) 60-foot artic	culated buses along wi	th staff and visitor	parking, the m	ajority of whi	ch will be provided by a new
	268 - space multi-level parking garage. The existing a fueling and fare retrievel facility, bus weaking for	ng facilities to be repla	ced include: an op	erations buildi	ing, an 11-Ba iron include:	ly bus maintenance building,
	gate a compressor building and other miscellaned	ous storage buildings.	All of these are pro	posed to be r	emoved as p	art of this project. As part of
	Broward County's ongoing efforts to provide mo	ore energy efficient, en	nvironmentally sus	tainable build	ing, the new	Ravenswood Maintenance
	Facility will pursue a LEED [®] Gold Certification.					
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COMPLETED		
	CITY OF MIRAMAR CONTINUING SERVICE	SCONTRACT		PROFESSIONA	AL SERVICES	CONSTRUCTION (if applicable)
	WIII AITIAI, FIUTUA			On-g	oing	N/A
	ACAL has been selected as part of a library of consultants to be used to provide professional planning and engineering convices for the					
b.	following general types of improvements: 1. Utilities Infrastructure Redevelopment, Improvement, and Expansion: Includes potable water.					
	reclaimed water, wastewater, sanitary sewer, storm water, and treatment works. 2. Public Buildings and Facilities: Includes new municipal					
	facilities (e.g. public safety facilities and commun	nity centers) and renov	vations to existing	buildings. 3.	Parks & Rec	reation: Includes new parks
	and upgrades to existing facilities. 4. Energy (Conservation and 5.	Other consulting	services that	may be req	uired to improve the City's
_						
	(1) IIILE AND LOCATION (City and State)				(2) YEAR	COMPLETED
	CITY OF FORT LAUDERDALE ARCHITECTU	JRE CONTINUING C	CONTRACT	PROFESSIONA	AL SERVICES	CONSTRUCTION (if applicable)
				202	11	N/A
c	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		Check if p	project perfor	med with current firm
0.	This contract shall include the following services as authorized by individual task orders for individual projects: Design of architectural projects					
	to help ease back log of work assigned to City	v staff; ADA analysis	and design modif	cations for A	DA compliar	nce at City facilities; Space
	studies for City facilities; Building analysis regain (CIP) projects: Review of plans and specification	rding maintenance an	d repair of existing	g facilities; De	Architectura	Ital Improvement Programs
	construction observation.		to city and othe	a stanuarus,	Alchilectura	i analysis and reports and
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED
	SBBC SOUTHWEST BUS MAINTENANCE FA	ACILITY		PROFESSIONA	AL SERVICES	CONSTRUCTION (if applicable)
	Fort Lauderdale, Florida			202	12	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		Check if	project perfo	rmed with current firm
d.	This Contract comprised of general construction o	of the Southwest Area	Bus Complex for th	e School Boa	rd of Broward	d County, Florida. The work
	included a two story Control/Administration Build	ing, a Garage/Mainten	ance Building, a F	ueling Area/B	Sus Wash Fa	cility, as well as associated
	paving, landscaping, irrigation, site utilities, o	drainage, trash dump	oster enclosure,	exterior facilit	y sign, site	e lighting, and fencing of
	mechanical/electrical enclosures as well as car pa	rking. The prototype fa	acility has parking f	or over 300 bu	ises.	
					CT A P	
					SIAI	NUARU FURINI 330 (6/2004)

	E. RESUMES OF I (Cor	nplete one Section E for each key pe	erson.)	KAUI	
12.		13. ROLE IN THIS CONTRACT		14	YEARS EXPERIENCE
I	JONALD M. WILKIN, RA	Drojact Arabitact		a. IOIAL	b. WITH CURRENT FIRM
15	FIRM NAME AND LOCATION (City and State)	T TOJECT ATCHINECT		34	3
13.	ACAI Associates, Inc.; Fort Lauderdale, Florida				
		19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED
		ROGRAM CONTINUING	PROFESSIONA	LSERVICES	CONSTRUCTION (if applicable,
	Miami-Dade County Florida		201	1	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE		araiaat parfa	rmod with ourroat firm
e.	ACAVA Miami Dada County averagionas includes				
	include, complete professional architectural, civ inspection services. Services include the foll Prototype K-9 Facility, and Jackson Memorial He	various projects awarded through its e vil engineering, structural, MEP and la owing facilities: Miami Courthouse, ospital.	ndscape design Tamiami Air Re	services, co scue Facili	ties, Scalehouse buildings,
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED
			PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE	Check if	oroject perfo	rmed with current firm
f.					
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED
			PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE	Check if I	project perfo	rmed with current firm
h.					
	(1) TITLE AND LOCATION (City and State)			(2) VEAP	
			PROFESSIONA		
				LOERVIOLO	
i.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE	Check if	oroject perfo	rmed with current firm
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED
			PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable)
j.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE	Check if	project perfo	rmed with current firm

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	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT					
12.	NAME	13. ROLE IN THIS CONT	RACT		14.	YEARS EXPERIENCE
	HARVEY ALIX LOISEAU				a. TOTAL	b. WITH CURRENT FIRM
		BI	IM Manager		12	5
15.	FIRM NAME AND LOCATION (City and State) ACAI Technologies, Inc.; Fort Lauderdale, Florida	l				
16.	EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PRO	FESSIONAL RE	GISTRATION ((STATE AND DISCIPLINE)
E	Bachelor of Architecture					
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Org	ganizations, Training, Award	s, etc.)			
	Associate Member of AIA, CM-BIM Certified, C Professional, AutoCAD Architecture 2010 Certified	PTED Certified, US Professional	GBC LEED® A	Accredited P	rofessional,	AutoCAD 2010 Certified
		19. RELEVANT P	ROJECTS	6		
(1) TITLE AND LOCATION (City and State)						COMPLETED
	BROWARD COUNTY AVIATION DEPARTME	NT BIM STANDARDS	5	PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable)
	Broward County, Fronda			201	3	N/A
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		Check if	project perfo	rmed with current firm
	Selected by the prime consultant EAC Consulting, Inc., to create the Fort Lauderdale/Hollywood International Airport (FLL) Building Information Modeling Standards (BIM Standards) and BIM Execution Plan (BEP) for implementation at the facilities owned and maintained by the Broward County Aviation Department (BCAD)					nal Airport (FLL) Building the facilities owned and
		paramont (<u>20</u> , <u>2</u>).				
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED
	Fort Lauderdale, Florida		PROFESSIONAL SERVICES		CONSTRUCTION (if applicable)	
				On-ge	oing	Est. 2014
h	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		Check if project performed with current firm		
	ACAI was selected by Broward County, Florida to provide BIM services for the replacement of facilities at the Ravenswood Bus Maintenance Facility. The 9-acre site will be reconfigured, replacing the existing 1970's structures with new state-of-the-art facilities for current and future needs. When completed, the 214,789 sf facility will accommodate up to 150 fleet vehicles including (130) 40-foot buses and (20) 60-foot articulated buses along with staff and visitor parking, the majority of which will be provided by a new 250 - space multi-level parking garage. Integrated 4D modeling is part of the deliverables for analyzing project phasing, tenant sequencing, and construction scheduling.					
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED
	SANDIA NATIONAL LABORATORIES COBIE P	LABORATORIES COBIE PROGRAMMING		PROFESSIONAL SERVICES CONSTRUC		CONSTRUCTION (if applicable)
	Various Locations			On-ge	oing	N/A
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE			project perfo	rmed with current firm
	ACAI Technologies is currently providing COBie Programming services for Sandia National Laboratories. Sandia Contract documents for COBi deliverable requirements on future BIM projects include: Asset type list; Sandia naming conventions; COBie-Sandia Data set; COBie progressio schedule; COBie formatted file template; COBie Sandia formatted file deliverable example; and POC COBie - Sandia Schedule Templates Update. In addition, ACAI Technologies is providing COBie deliverable requirements on-site training.					ntract documents for COBie Data set; COBie progression andia Schedule Templates-
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED
	NSU CENTER FOR COLLABORATIVE RESEAR Davie Florida	CH CONSTRUCTION E	BIM SERVICES	PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable)
				On-ge	oing	N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		🛛 Check if	project perfo	rmed with current firm
d. TACAI Technologies has been selected to provide BIM services for Nova Southeastern University's Center for Collaborative Research (CCR). The CCR will be a state-of-the-art, cooperative interdisciplinary center for medical, pharmaceutical, dental and oceanographic re The 216,000 square foot building, which will pursue a LEED [®] Silver Certification, will include access to a six level 1,650 car parking providing additional student parking and parking for the CCR staff. The CCR is scheduled to start construction in the first quarter of 20 services include a BIM Execution Plan, COBie, BIM Management and Coordination for all the disciplines, Modeling Upgrade to LOD Mechanical, Electrical, Plumbing, Fire Protection & Civil Utilities and modeling upgrade to LOD 500 for all disciplines.			laborative Research Facility nd oceanographic research. I 1,650 car parking garage, ne first quarter of 2014. Our ng Upgrade to LOD 350 for			

STANDARD FORM 330	(6/2004)

	E. RESUMES OF I	KEY PERSONNEL PROPOSED FO mplete one Section E for each key per	R THIS CON ⁻ son.)	TRACT	
12.	NAME	13. ROLE IN THIS CONTRACT	,	14.	YEARS EXPERIENCE
I	HARVEY ALIX LOISEAU			a. TOTAL	b. WITH CURRENT FIRM
		BIM Manager		12	5
15.	FIRM NAME AND LOCATION (City and State) ACAI Technologies, Inc.; Fort Lauderdale, Florid	a			
		19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED
	BROWARD COUNTY COURTHOUSE BIM SERVICES		PROFESSION	AL SERVICES	CONSTRUCTION (if applicable)
	Ton Lauderdale, Tionda		On-g	loing	N/A
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND ACAI Technologies was commissioned by the County Courthouse Architectural, Structural, an civil and family courts with supporting services.	SPECIFIC ROLE e general contractor to provide Building d Civil disciplines. The new, 23-story fa	Check if Information M acility will prov	project perfor Nodeling serv ide 693,000 s	med with current firm rices for the New Broward f of programmed space for
	(1) TITLE AND LOCATION (City and State)		1	(2) VEAR	
			PROFESSION	AL SERVICES	CONSTRUCTION (if applicable)
	(2) RRIEF DESCRIPTION (Rrinf cooper size cost atc.) AND				
	(3) BRIEL DESCRIPTION (Bhel scope, size, cost, etc.) AND		Check if	project perfor	med with current firm
h.	(1) TITLE AND LOCATION (City and State) (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	SPECIFIC ROLE	PROFESSION	(2) YEAR AL SERVICES project perfo	COMPLETED CONSTRUCTION <i>(if applicable)</i> rmed with current firm
	(1) TITLE AND LOCATION (City and State)		PROFESSION		
			PROFESSION	AL SERVICES	CONSTRUCTION (II applicable)
i.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		Check if project performed with current firm		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED
			PROFESSION	AL SERVICES	CONSTRUCTION (if applicable)
j.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		project perfo	med with current firm

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)						
12.	NAME	13. ROLE IN THIS CON	TRACT	14	YEARS EXPERIENCE		
:	Sakomvat Peck Sukphisit			a. TOTAL	b. WITH CURRENT FIRM		
		BI	M Coordinator	13	2.5		
15.	FIRM NAME AND LOCATION (City and State) ACAI Technologies, Inc.; Fort Lauderdale, Florida						
16.	EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PRO	FESSIONAL REGISTRATION	(STATE AND DISCIPLINE)		
E	3.A in Environmental Design, Texas A&M U	niversity					
A	A.A. in Architecture, Broward Community College						
18.	18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)						
	19. RELEVANT PROJECTS						
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED		
	BROWARD COUNTY AVIATION DEPARTMEI	NT BIM STANDARD	S	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
				2013	N/A		
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	PECIFIC ROLE		Check if project perfo	rmed with current firm		
	Selected by the prime consultant EAC Consultant Information Modeling Standards (BIM Standards maintained by the Broward County Aviation Dep	Ilting, Inc., to create ards) and BIM Exec partment (BCAD).	the Fort Laudero cution Plan (BEP	dale/Hollywood Internatio) for implementation at	onal Airport (FLL) Building the facilities owned and		
	(1) TITLE AND LOCATION (City and State) BROWARD COUNTY RAVENSWOOD BUS MAINTENANCE FACILITY Fort Lauderdale, Florida			(2) YEAR	COMPLETED		
			Y	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
				On-going	Est. 2014		
 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE ACAI was selected by Broward County, Florida to provide BIM services for the replacement of facilities Facility. The 9-acre site will be reconfigured, replacing the existing 1970's structures with new state-on needs. When completed, the 214,789 sf facility will accommodate up to 150 fleet vehicles including 					rmed with current firm venswood Bus Maintenance silities for current and future oot buses and (20) 60-foot		
	articulated buses along with staff and visitor park Integrated 4D modeling is part of the deliverables f	or analyzing project pr	hich will be provid nasing, tenant sequ	led by a new 250 - space lencing, and construction s	e multi-level parking garage. cheduling.		
	(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED				COMPLETED		
			DDITION	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
	Various Locations	S NEUROSCIENCE A	DUITION	2013	N/A		
C.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	PECIFIC ROLE		Check if project perfo	rmed with current firm		
	BIM Modeling and Coordination Services were provided for the new construction as well as immediately proximate, existing facility for the Marcus Neuroscience Institute Addition at Boca Raton Regional Hospital. In order to accomplish our client goals, we emphasized our services in the following Areas: BIM and Constructability Review, BIM Standards and Administration, BIM Coordination and Clash Detection, and Vela BIM Integration.						
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED		
	NSU CENTER FOR COLLABORATIVE RESEAR	CH CONSTRUCTION	BIM SERVICES	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)		
	Davie, Honda			On-going	N/A		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	PECIFIC ROLE		Check if project perfo	rmed with current firm		
d.	TACAI Technologies has been selected to provide BIM services for Nova Southeastern University's Center for Collaborative Research Facility (CCR). The CCR will be a state-of-the-art, cooperative interdisciplinary center for medical, pharmaceutical, dental and oceanographic research. The 216,000 square foot building, which will pursue a LEED [®] Silver Certification, will include access to a six level 1,650 car parking garage, providing additional student parking and parking for the CCR staff. The CCR is scheduled to start construction in the first quarter of 2014. Our services include a BIM Execution Plan, COBie, BIM Management and Coordination for all the disciplines, Modeling Upgrade to LOD 350 for Mechanical, Electrical, Plumbing, Fire Protection & Civil Utilities and modeling upgrade to LOD 500 for all disciplines.						
	L			STAI	NDARD FORM 330 (6/2004)		

	E. RESUMES OF K (Con	EY PERSONNEL PROPOSED FC aplete one Section E for each key pe	DR THIS CONT erson.)	RACT	
12.	NAME	13. ROLE IN THIS CONTRACT		14. `	YEARS EXPERIENCE
:	Sakomvat Peck Sukphisit	DIM Coordinator		a. TOTAL	b. WITH CURRENT FIRM
		BIM Coordinator		13	2.5
15.	FIRM NAME AND LOCATION (City and State) ACAI Technologies, Inc.; Fort Lauderdale, Florida	ı			
		19. RELEVANT PROJECTS			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR C	COMPLETED
	BROWARD COUNTY COURTHOUSE BIM SERV	/ICES	PROFESSION	AL SERVICES	CONSTRUCTION (if applicable)
	Fort Lauderdale. Florida		On-g	oing	N/A
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S ACAI Technologies was commissioned by the	general contractor to provide Buildin	Check if	project perfori Iodeling servi	ned with current firm ces for the New Broward
	County Courthouse Architectural, Structural, and civil and family courts with supporting services.	Civil disciplines. The new, 23-story	facility will provi	de 693,000 sf	of programmed space for
	(1) TITLE AND LOCATION (City and State)			(2) YEAR (COMPLETED
	(.,		PROFESSION	AL SERVICES	CONSTRUCTION (if applicable)
f.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		Check if	project perfor	ned with current firm
	(1) TITLE AND LOCATION (City and State)				
	(1) THE AND LOCATION (City and State)		PROFESSION		
h.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE	Check if	project perfori	med with current firm
	(1) TITLE AND LOCATION (City and State)			(2) YEAR C	COMPLETED
			PROFESSION	AL SERVICES	CONSTRUCTION (if applicable)
i.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		Check if	project perfori	med with current firm
	(1) TITLE AND LOCATION (City and State)			(2) YEAR (COMPLETED
			PROFESSION	L SERVICES	CONSTRUCTION (if applicable)
j.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		Check if	project perfor	ned with current firm

	E. RESUMES OF K (Com	EY PERSONNEL PROPOSED FO	R THIS CONT rson.)	RACT			
12.	NAME	13. ROLE IN THIS CONTRACT		14.	YEARS EXPERIENCE		
	W. RANDY SCOTT			a. TOTAL	b. WITH CURRENT FIRM		
		Project Manager		28	6		
15.	ACAI Associates, Inc.; Fort Lauderdale, Florida						
16.	EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PR	OFESSIONAL REC	GISTRATION	(STATE AND DISCIPLINE)		
Ŀ	Bachelor of Architecture						
18	SUSINESS MANAGEMENT	nanizations Training Awards etc.)					
		, , , , , , , , , , , , , , ,					
		19. RELEVANT PROJECTS	I				
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED		
		ADMINISTRATION BUILDING	PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable)		
	Fort Lauderdale, Florida		201	3	N/A		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	PECIFIC ROLE	Check if p	project perfo	rmed with current firm		
a.	ACAI provided architectural schematic evaluation	ons for the interior and exterior renow	ations to the FX	KE Airport A	dministration building. The		
	architectural evaluations include the addition of	of patio and lanai space at rear of fa	cility, replacing	storefront	at large conference room,		
	replacement of restroom fixtures, floor carpet, c	eiling tile, light fixtures, providing ligh	ting controls, ne	ew paint sch	neme, replace entire HVAC		
	system and components, provide building sig	gnage, evaluate roof leaks and pro	vide probable	cost estima	ite as well as provide an		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED		
	FT. LAUDERDALE EXECUTIVE AIRPORT GE	NERAL ENGINEERING SERVICES	PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable)		
	Fort Lauderdale, Florida			3	N/A		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE						
b.	Working with the prime consultant, Kimley-Ho	orn and Associates Inc., ACAI was	chosen to pro-	vide archite	ectural services under this		
	General Engineering Aviation Consultant Ser	vices contract for the City of Fort	Lauderdale Ex	kecutive Air	port and John H. Fuhrer		
	Downtown Helistop. The desired services may Plan surveying structural mechanical electri	Include engineering design and cons	al testing service	jement of A	Irport Capital Improvement		
	providing Disadvantaged Business Enterprise	(DBE) support services, site plan	n review and a	analvsis. re	lated engineering support		
	functions, environmental services, bidding servi	ces, and architectural services.		, ,			
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	COMPLETED		
	BROWARD COUNTY AVIATION DEPAR	TMENT AIRPORTS PLANNING	PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable)		
	SERVICES		201	3	N/A		
	Broward County, Florida			0	14/11		
c	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE	Check if p	project perfo	rmed with current firm		
0.	Working with the prime consultant, Leigh Fish	her, Inc., ACAI was chosen to provi	de continuing l	Planning ar	d Design services for the		
	Airport The scope of services included the r	production of Design Standards for	the Terminal A	reas of For	t Lauderdale International		
	Airport. The goal of these standards is to e	stablish a general direction for all	uture developn	nent of the	Terminal areas; create a		
	descriptive criteria regarding appearance, cost	and maintenance goals; establish a	format for the G	Guidelines, a	and establish a process for		
	the implementation of the Guidelines.		1				
	(1) TITLE AND LOCATION (City and State)		PROFESSIONA	(2) YEAR	COMPLETED		
	AIR RESCUE AND FIRE FIGHTING TRAINING	G FACILITY (ARFF)	FROIESSIONA	L SERVICES			
	Fort Lauderdale, Florida		200)8	2008		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	PECIFIC ROLE	Check if r	project porfo	rmed with current firm		
d.	The ARFF is a consolidation of the citv's mult	iple Fire Fighting activities under on	e roof. Housed	in 24.000	sq. ft. of space the facility		
	includes apparatus area, the City's west Emerg	gency Operations Center, and Fire a	nd Rescue Train	ning Faciliti	es. The two story structure		
	contains fire department related offices, kitche	en facilities, and sleeping quarters f	or 12 firefighter	rs. The fac	ility has been designed to		
	handle airport runway emergencies as well as	landside and City fire emergencies a	nd is serviced b	oy an emerç	gency generator to prevent		
	any disruption of service to the community. AC	AI's scope of services included the d	esign criteria, p	rogramming	g, architecture, engineering		
	and construction management.						
				STAI	NDARD FORM 330 (6/2004)		

(0	Complete one Section E for each key pe	rson.)		
12. NAME	13. ROLE IN THIS CONTRACT		14.	YEARS EXPERIENCE
W. RANDY SCOTT	Dreiget Manager		a. TOTAL	b. WITH CURRENT FIRM
	Project Manager		28	6
 FIRM NAME AND LOCATION (City and State) ACAI Associates, Inc.; Fort Lauderdale, Florida 	a			
	19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State)			(2) YEAR (COMPLETED
	RNATIONAL AIRPORT LAND USE	PROFESSIONA	AL SERVICES	CONSTRUCTION (if applicable
Fort Lauderdale Florida		201	12	N/A
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) At	ND SPECIFIC ROLE	M Chaak if	project perfer	mad with ourrant firm
Lauderdale-Hollywood International Airport portion of the entire scope of the project ref recoreded on timesheets provided by BCAD be used in lieu of our maximum rate by cont	properties Land Use Strategy and Plann lected in the Leigh Fisher Task Authoriz D. This is a NTE contract therefore the tri ract.	and provident in the second pro- cation from BCA ue raw rate for p	ant to note th D. Time spe personnel wo	hat ACAI's scope is only a nt on this project must be prking on this project must
(1) TITLE AND LOCATION (City and State)			(2) YEAR (COMPLETED
		PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable
(3) BRIEF DESCRIPTION (Brief scope size cost etc.) At				
		Check if	project perfor	med with current firm
(1) TITLE AND LOCATION (City and State)		PROFESSIONA	(2) YEAR (AL SERVICES	COMPLETED CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) At h.	ND SPECIFIC ROLE	Check if	project perfor	med with current firm
(1) TITLE AND LOCATION (City and State)			(2) YEAR (COMPLETED
		PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable)
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) At	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		project perfor	med with current firm
(1) TITLE AND LOCATION (City and State)			(2) YEAR (COMPLETED
		PROFESSIONA	L SERVICES	CONSTRUCTION (if applicable,
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) At j.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		project perfor	med with current firm
j.		∐ Check if ∣	project perfor	med with curre

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED QUALIFICATIONS FOR THIS CONTRACT	20. EXAMPLE PROJECT KEY NUMBER	
(Present as many projects as requested by the agency, or 10 projects, if i Complete one Section F for each project.)	1	
21. TITLE AND LOCATION (City and State)	COMPLETED	
Air Rescue Fire Fighting Facility (ARFF)	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
Fort Lauderdale Executive Airport Ft. Lauderdale. Florida	2008	2008

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. point of contact telephone number
City of Fort Lauderdale	Fernando Blanco, Project Engineer	(954) 828-6536

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

The ARFF is a consolidation of the city's multiple Fire Fighting activities under one roof. Housed in 24,000 sq. ft. of space the facility includes apparatus area, the City's west Emergency Operations Center, and Fire and Rescue Training Facilities. The two story structure contains fire department related offices, kitchen facilities, and sleeping quarters for 12 firefighters.

The facility has been designed to handle airport runway emergencies as well as landside and City fire emergencies and is serviced by an emergency generator to prevent any disruption of service to the community.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1). FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	ACAI ASSOCIATES, INC.	Fort Lauderdale, Florida	Programming, Design Criteria, Preliminary, Architecture, Engineering, Construction Management.
b.	(1). FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
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

20. EXAMPLE PROJECT KEY

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QUALIFICATIONS FOR THIS CONTRACT	NUMBER		
(Present as many projects as requested by the agency, or 10 projects, if i Complete one Section F for each project.)	2		
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED		
ADMINISTRATION COMPLEX	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
Fort Lauderdale Executive Airport	2004	2008	
Fort Lauderdale, Florida		2008	

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Fernando Blanco, Project Engineer	954/ 828.6536

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

Delivered as part of a General Consulting Contract with Kimley-Horn & Associates, ACAI is the Design Criteria Professional and Design Architect for this first phase of a multiple phase project to house the City's Executive Airport Administration functions.

The building houses a police substation, an interior emergency operations center and offices for the airport's Director and staff.

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S

Phase two, currently in Construction Administration, will include the Airport's Air Rescue Fire Fighting Facility along with its Training Center, Fire Station and the City's permanent Emergency Operations Center. This facility is envisioned to be in the 30,000 square foot range and is scheduled to be constructed in the Design/Bid/Build method of project delivery.

As part of ACAI's responsibility, the firm represents the Owner in all matters related to project delivery and conduct inspection services during construction.





20. EXAMPLE PROJECT KEY

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT						
a.	(1). FIRM NAME ACAI Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Ft. Lauderdale, Florida	(3) ROLE Architecture, Master Planning, Programming, Design Criteria Documents, Construction Management				
b.	(1). FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE				
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				

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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if Complete one Section F for each project.)	20. EXAMPLE PROJECT KEY NUMBER 3				
21. TITLE AND LOCATION (City and State) BROWARD COUNTY AVIATION DEPARTMENT BIM STANDARDS Broward County, Florida	22. YEAR O PROFESSIONAL SERVICES 2013	COMPLETED CONSTRUCTION (if applicable) N/A			
23. PROJECT OWNER'S INFORMATION					

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Broward County Aviation Department	Mike Adiefe, P.E., Vice President	(305) 264-2557

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

Selected by the prime consultant EAC Consulting, Inc., to create the Fort Lauderdale/Hollywood International Airport (FLL) Building Information Modeling Standards (BIM Standards) and BIM Execution Plan (BEP) for implementation at the facilities owned and maintained by the Broward County Aviation Department (BCAD).



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1). FIRM NAME ACAI ASSOCIATES, INC.	(2) FIRM LOCATION (City and State) Fort Lauderdale, Florida	(3) ROLE BIM Standards, BIM Execution Plan
b.	(1). FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
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

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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED QUALIFICATIONS FOR THIS CONTRACT	20. EXAMPLE PROJECT KEY NUMBER		
(Present as many projects as requested by the agency, or 10 projects, if i Complete one Section F for each project.)	4		
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED		
BROWARD COUNTY RAVENSWOOD BUS MAINTENANCE FACILITY	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)	
Fort Lauderdale, Florida	On-going	Est. 2014	

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. point of contact telephone number
Broward County Florida	Jamil Jalloul, Project Manager	(954) 357-5641

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

ACAI Associates was selected by Broward County, Florida to provide programming, design and construction administration services for the replacement of facilities at the Ravenswood Bus Maintenance Facility. The 9-acre site will be re-configured, replacing the existing 1970's structures with new state-of-the-art facilities for current and future needs. When completed, the facility will accommodate up to 150 fleet vehicles including (130) 40-foot buses and (20) 60-foot articulated buses along with staff and visitor parking, the majority of which will be provided by a new 268 - space multi-level parking garage. As part of Broward County's ongoing efforts to provide more energy efficient, environmentally sustainable building, the new Ravenswood Maintenance Facility will pursue a LEED[®] Gold Certification.

In addition we are also providing BIM services for the replacement of facilities at the Ravenswood Bus Maintenance Facility. Integrated 4D modeling is part of the deliverables for analyzing project phasing, tenant sequencing, and construction scheduling.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1). FIRM NAME ACAI Associates, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Ft. Lauderdale, Florida	(3) ROLE Master Planning, Programming, Architecture, Engineering, BIM Consulting and Construction Administration
b.	(1). FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
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

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26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)		27. ROLE IN THIS CONTRACT (From Section E, Block 13)28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)12345678910								
Adolfo J. Cotilla, AIA	Principal in Charge	х	х	х	х						
Donald M. Wilkin, RA	Project Architect				х						
W. Randy Scott	Project Manager	х			х						
H. Alix Loiseau, CM-BIM	BIM Manager			х	х						
S. Peck Sukphisit	BIM Coordinator			х	х						

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	FORT LAUDERDALE EXECUTIVE AIRPORT AIR RESCUE AND FIRE FIGHTING TRAINING FACILITY	6	
2	FORT LAUDERDALE EXECUTIVE AIRPORT ADMINISTRATIVE COMPLEX	7	
3	BROWARD COUNTY AVIATION DEPARTMENT BIM STANDARDS	8	
4	BROWARD COUNTY RAVENSWOOD BUS MAINTENANCE FACILITY	9	
5		10	

H. ADDITIONAL INFORMATION

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

I. AUTHORIZED REPRESENTATIVE

 The foregoing is a statement of facts.

 31 SIGNATURE

 32 DATE

 01/31/2014

33. NAME AND TITLE Adolfo J. Cotilla, Jr., President

ARCHITECT - ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

RFQ #946-11333

PART II - GENERAL QUALIFICATONS

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

2a, FIRM (OR	BRANCH OFFICE) NAME					3. YEAR ESTABLISHED	4. DU	NS NUMBER
ACAI Associates, Inc.				1985	61188289			
2b STREET						5. OWNERSHIP		
2937 W	. Cypress Creek Road, Suite 20	00				a. TYPE		
2c. CITY			2d. STA	TE 2e. ZI	P CODE	Co	proration	
Fort La	uderdale		FL	3	3309	b. SMALL BUSINESS ST	ATUS	
6a. POINT OF	CONTACT NAME AND TITLE					FDOT	DBE / FL I	MBE
Adolfo 、	J. Cotilla, Jr.					7. NAME OF FIRM (If blo	ck 2a is a bran	ch office)
6b TELEPHO	NE NUMBER	6c. E-MAIL AD	DRESS					
(954) 4	84-4000	adolf	o@aecr	nworld.	com			
	8a, FORMER FIRM NA	ME(S) (If any))			8b. YEAR ESTABLISHE) 8c.DU	NS NUMBER
	9. EMPLOYEES BY DISCIPL	INE		Δ	10. PRO	FILE OF FIRM'S EX	PERIENCE A	ND YEARS
a. Function		c. No. of E	mployees	a.	-			c. Revenue Index
Code	b. Discipline	(1) FIRM	(2) BRANCH	Profile		b. Experience		Number (see below)
02	Administrative	6		A06	Airports; Te	erminals & Hangars; Fr	ight Handling	4
06	Architect	6		A11	Auditorium	s & Theaters		5
08	CADD Technician	13		C09	Cold Stora	ge; Refrigeration & Fas	Freeze	2
12	Civil Engineer	1		C15	Constructio	n Management/Admini	stration	4
15	Construction Inspector	2		E02	Educationa	I Facilities; Classroom:	i	6
16	Construction Manager	2		F02	Field Hous	es; Gyms; Stadiums	1	
37	Interior Designer	1		G02	Gas Syster	ns (Propane; Natural, e	1	
39	Landscape Architect	1		H09	Hospitals 8	Medical facilities	6	
48	Project Manager	5		H10	Hotels; Mo	tels	1	
57	Structural Engineer	1		105	Interior De	· Design; Space Planning		5
				J01	Judicial an	Judicial and Courtroom Facilities		5
				L01	Laboratorie	es; Medical Research F	acilities	6
				L03	Landscape	Architecture		3
				L04	Libraries; N	Auseums; Galleries		2
				001	Office Build	dings; Industrial Parks		3
				P06	Planning (Site, Installation & Proj	ect)	3
				P13	Public Safe	ety Facilities		5
				R04	Recreation	Facilities (Parks, Mari	nas, etc.)	5
				R06	Rehabilitat	ion (Bldgs; Structures;	Facilities)	3
				R12	Roofing			4
	2			W03	Water Sup	ply; Treatment and Dist	ribution	5
	Total	38						
11. ANNU SERV (Insert rev	1. Less 2. \$100	PRO 5 than \$10 0,000 to le	FESSION 00,000 ess than	NAL SERVI \$250,000	CES REVENUE IND 6. \$2 million to 7. \$5 million to	EX NUMBER less than \$5 less than \$1	million 0 million	
a. Federal	Work 12 - 1, 11 - 1, 10 - 1	3. \$250	0,000 to le	ess than	\$500,000	8. \$10 million t	o less than \$	25 million
b. Non-Federal Work 12 - 6, 11 - 6, 10 - 6 4.			0,000 to le	ess than	\$1 million	9. \$25 million t	o less than \$	50 million
c. Total W	ork 12 - 6, 11 - 6, 10 - 6	5. \$1 n	nillion to l	ess than	\$2 million	10. \$50 million of	r greater	
		12. AUTH The fored	IORIZED	REPRES stateme	ENTATIVE			
a. SIGNATOR	ELIA A A INT			0.00		b.	DATE	
	Yollo (). Cohlla	<i></i>					January 3	1st, 2014
Adolfo	J. Cotilla, Jr., AIA - President							
c. NAME AND Adolfo	Jo <i>lto (), Cottila</i> J. Cotilla, Jr., AIA - President						January 3	<u>1st, 2014</u>

	E. RESUMES OF	F KEY PERSONNEL PROP omplete one Section E for ea	OSED FO	OR THIS CONTRACT	г	
12.	NAME	13. ROLE IN THIS CONTRAC	CT		14	4. YEARS EXPERIENCE
	Peter Moore, P.E., LEED AP	Civil Engineer			a. TOTAL	b. WITH CURRENT FIRM
45					16	14
15.	Chen Moore and Associates Fort Lauderdale	FI				
16		, 1 ⊑			CISTRATI	ON (STATE AND DISCIPLINE)
10.	Bachelor of Science / Civil Engineering	17	FI / P	rofessional Engine	-013117A11	ON (STATE AND DISCIPLINE)
	Master of Engineering / Civil Engineering		/ .			
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications, C	Organizations, Training, Awards, etc.)				
	As the President of the firm, Mr. Moore is ultim	nately responsible for all o	day to d	ay operations of the	e firm. Mr	. Moore works as the
	Client Project Manager for work in Broward Co	ounty, Pompano Beach a	nd Deer	field Beach and co	ntinues to	b be involved in the
	successful completion of projects. These proje	ects include sanitary colle	ection im	provements, pump	station re	ehabilitation,
	transportation engineering enhancements, wa	ter and reclaimed water of	consultir	ng along with all oth	ier phase	is of civil engineering
	desidn and heidhbomood improvements.	19. RELEVANT PRO	JECTS			
	(1) TITLE AND LOCATION (City and State)			(2	2) YEAR CO	DMPLETED
	Fort Lauderdale-Hollywood International A	Airport Stormwater Maste	er	PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable)
	Plan Update			2009		N/A
	Fort Lauderdale, FL					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc	c.) AND SPECIFIC ROLE		[X] Check if project	performed	with current firm
	Principal. Under Phase 1 of this project, E	Broward County Aviation I	Departm	nent (BCAD) retaine	ed CMA t	o update the FLL
a.	Stormwater Master Plan (SWMP), which	was completed by a prev	ious cor	nsultant in 2001. CN	MA reviev	ved the data and analysis
	from all prior reports, converted the existing	ng stormwater model from	n SWM	I to ICPR, and upo	lated the	ICPR model with any
	new system data and new projects provid	ed by BCAD. CMA updat	ted the e	existing conditions	stormwat	er model and created the
	future conditions stormwater model to ass	sess alternative drainage	improve	ements needed to a	ichieve re	equired and desired
	Levels of Service (LOS) for various storm	events. The stormwater	model v	vas used to run rair	ITAII SCEN	arios for the comparison
	or pre-development (existing) conditions v	versus post-development	(iuture)	conditions from a	water qua	antity (runoff) and water
	(1) THE AND LOCATION (<i>Circuit Ortex</i>)	50		11		
	(1) TITLE AND LOCATION (City and State) Sanitary Sewer at Pompano Air Park		-		2) YEAR CC	
	Pompano Beach Fl			2007	VIOLO	2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc	c.) AND SPECIFIC ROLE		[X] Check if project	performed	with current firm
	Principal CMA was contracted by the City of Pompano Beach for the landside improvements at Pompano Beach Air Park					
	(PBO) The proposed development includ	led the installation of the	utilities	(new force main w	ater main	and beach All Faik
b.	services) as well as parking and drainage	improvements to the exi	sting pa	rkina lot servicina t	he tower	and a reconstructed
	access roadway. Due to the urgency from	the Pompano Airpark, th	ne proje	ct was divided in tw	o bids. T	he first bid was for the
	Pompano Airpark Water Service which in	cluded 4000 linear feet of	f water r	main and roadway i	econstru	ction. Once completed,
	the new FBO development began construction. The second bid package was for Pompano Airpark Sewer System, which					
	included a small grinder station, 1500 linear feet of gravity mains and 760 linear feet of reuse water, along with the parking lot					
	improvements. Cost: \$675,000, Fee: \$36,	,865				
	(1) TITLE AND LOCATION (City and State)		_	(2	2) YEAR CO	DMPLETED
	Stormwater Master Plan Update			PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief score, size, sect, at					
c.					periormea	
	Principal. CMA was retained by the City of Hollywood to prepare a Stormwater Master Plan Update for the entire City limits. The					
	City of Hollywood is fully developed with chiefly residential properties mixed with commercial properties and also includes some					
	land which are separated into 44 745 prov	perties Fee \$103 220	les. The	project area includ	ies appro	Almalely 18,660 acres of
	(1) TITLE AND LOCATION (City and State)	Jennes. 1 ee. 9103,220		()) YEAR CC	
	Stormwater Master Plan			PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable)
	Pompano Beach, FL			2011		N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc	c.) AND SPECIFIC ROLE		[X] Check if project	performed	with current firm
d.	Principal, CMA prepared Stormwater Mas	ster Plans (SWMP) and S	stormwa	ter Master Plan Up	dates for	various municipalities
	throughout South Florida, including the City of Pompano Beach, the Town of Lauderdale-By-The-Sea, and the City of					
	Hollywood. The purpose of these SWMPs was to identify any deficiencies in the existing stormwater management systems in					nanagement systems in
	regards to flood control and water quality treatment. Cost: \$1.2 million, Fee: \$661,360					
	(1) TITLE AND LOCATION (City and State)			(2	2) YEAR CO	DMPLETED
	Stormwater Master Plan		F	PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable)
	Lauderdale by the Sea, FL			2010	-	N/A
~	(3) BRIEF DESCRIPTION (Brief scope, size, cost. etc	c.) AND SPECIFIC ROLE		[X] Check if project	performed	with current firm
е.	Principal CMA completed the Stormwate	r Master Plan which is ful	llv devel	oned with chiefly re	sidential	properties mixed with
	commercial properties. The project area in	ncludes approximately 64	10 acres	of land which are	separater	t into 1.618 properties
	which encompasses approximately 1.5 sc	juare miles of land area.	Fee: \$8	9,241		
		•	÷ -	-		

	E. RESUMES OF K (Com	EY PERSONNEL PROPOSED F	OR THIS CONTRACT		
12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS			I. YEARS EXPERIENCE		
	Jason McClair, P.E., CFM, LEED AP	Civil Engineer		a. TOTAL	b. WITH CURRENT FIRM
15.	FIRM NAME AND LOCATION (City and State)			17	12
	Chen Moore and Associates, Fort Lauderdale, F	L			
16.	EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Science / Civil Engineering	17. CURRI FL / F	ENT PROFESSIONAL RE Professional Enginee	GISTRATIO	ON (STATE AND DISCIPLINE)
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Orga Mr. McClair is a senior civil engineer with experie and computer aided flow modeling for stormwate the project manager for the Fort Lauderdale-Holl Beach Stormwater Master Plan.	anizations, Training, Awards, etc.) ence in utility infrastructure de er collection, water distribution ywood International Airport S	sign, regulatory pern , and sanitary transn tormwater Master Pla	nitting, g nission s an Updat	eotechnical engineering, ystems. He is currently e and the Pompano
		19. RELEVANT PROJECTS			
	 TITLE AND LOCATION (City and State) Fort Lauderdale-Hollywood International Air Plan Update Phase 2 Fort Lauderdale, FL 	port Stormwater Master	(2 PROFESSIONAL SERV 2012) YEAR CC /ICES	MPLETED CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE	[X] Check if project p	performed	with current firm
a.	Principal. The purpose of Phase 2 is to prov of the South Runway Expansion Project and area improvements. The existing stormwate planning documents for the South Runway E based on progress design submittals for the development at FLL, which will enhance the	ide routine updates to the sto d the associated future develo r model created during Phase Expansion Project. The updat South Runway Expansion Pr accuracy of the stormwater r	rmwater model(s) ba pment, including but a 1 includes design a es to the stormwater oject and approved o nodel. Phase 1 & 2 F	nsed on p not limit ssumptic model d design pl Fee: \$73	orogress design drawings ed to, terminal and gate ons based on preliminary uring Phase 2 will be ans for other new 5,000
	(1) TITLE AND LOCATION (City and State)		(2)) YEAR CC	MPLETED
	Sanitary Sewer at Pompano Air Park Pompano Beach, FL		PROFESSIONAL SERV 2007	ICES	CONSTRUCTION (If Applicable) 2010
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE	[X] Check if project p	performed	with current firm
b.	Project Engineer, Mr. McClair provided QA/ Pompano Beach for the landside improvement installation of the utilities (new force main, w improvements to the existing parking lot serv Pompano Airpark, the project was divided in 4000 linear feet of water main and roadway The second bid package was for Pompano gravity mains and 760 linear feet of reuse w	QC review services for the pro- ents at Pompano Beach Air P vater main, gravity sewer and vicing the tower and a recons two bids. The first bid was for reconstruction. Once complet Airpark Sewer System, which ater, along with the parking lo	ofect plans. CMA was ark (PBO). The prop reuse services) as w tructed access roadw r the Pompano Airpa red, the new FBO de included a small grir t improvements. Cos	s contrac osed dev vell as pa way. Due ark Wate velopme oder stati st: \$675,(ted by the City of /elopment included the rking and drainage to the urgency from the r Service which included nt began construction. on, 1500 linear feet of 000, Fee: \$36,865
	(1) TITLE AND LOCATION (City and State)		(2)) YEAR CC	MPLETED
	Stormwater Master Plan Pompano Beach, FL		PROFESSIONAL SERV 2011	ICES	CONSTRUCTION (If Applicable) N/A
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE	[X] Check if project p	performed	with current firm
C.	Principal. CMA prepared Stormwater Master Plans (SWMP) and Stormwater Master Plan Updates for various municipalities throughout South Florida, including the City of Pompano Beach, the Town of Lauderdale-By-The-Sea, and the City of Hollywood. The purpose of these SWMPs was to identify any deficiencies in the existing stormwater management systems regards to flood control and water quality treatment. Cost: \$1.2 million, Fee: \$661,360				
	(1) TITLE AND LOCATION (City and State)		(2)) YEAR CC	MPLETED
	Westchester Stormwater Study		PROFESSIONAL SERV	ICES	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope size cost etc.)		ZUIZ	orformed	N/A
d.	Drainer Manager CMA conducted a stormus	and of Lon to Roll			
	some extensive flooding during and after sig stormwater management system, identified improvements within these flooding areas. F	prificant rainfall events. CMA problem areas where flooding ee: \$17,000	analyzed the expected is expected and rec	ed perfor	mance of the existing stormwater
	(1) TITLE AND LOCATION (City and State)		(2) YEAR CC	MPLETED
	Stormwater Master Plan Update Hollywood, FL		PROFESSIONAL SERV	ICES	CONSTRUCTION (If Applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) A	AND SPECIFIC ROLE	[X] Check if project p	performed	with current firm
e.	Principal. CMA was retained by the City of H City of Hollywood is fully developed with chir agricultural, industrial, institutional and gove land which are separated into 44,745 proper	Hollywood to prepare a Storm efly residential properties mix rnment-owned properties. Th rties. Fee: \$103,220	water Master Plan U ed with commercial p e project area includ	pdate for properties es appro	the entire City limits. The s and also includes some ximately 18,680 acres of

	E. RESUMES O	F KEY PERSONNEL PROPOS	ED FOR THIS CONTRA	СТ			
10	(Complete one Section E for each key person.)						
12.	Jennifer Smith P F	Civil Engineer		a TOTAL			
				7	7		
15.	FIRM NAME AND LOCATION (City and State)				i		
	Chen Moore and Associates, Fort Lauderdale	e, FL					
16.	EDUCATION (DEGREE AND SPECIALIZATION)	17. C	URRENT PROFESSIONAL	REGISTRATIC	ON (STATE AND DISCIPLINE)		
	Bachelor of Science / Civil Engineering	F	L / Professional Engin	eer			
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications,	Organizations, Training, Awards, etc.)					
	Ms. Smith is currently serving as a senior eng	ineer with Chen Moore and	Associates. Her six ye	ears of expe	erience in the civil		
	Improvement Project Stormwater Master Pla	n for the City of Dania Read	Nork on the Broward	the City of	2 Water and Sewer		
	Design of GIS Utility Atlases Current duties	include water main sanitary	sewer and lift station of	line City Of I	permitting drainage		
	design and permitting as well as GIS modelin	a.		looigir ana p	sorrinting, aramago		
		19 RELEVANT PROJE	CTS				
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CO	MPLETED		
	Stormwater Master Plan		PROFESSIONAL SE	RVICES	CONSTRUCTION (If Applicable)		
	Pompano Beach, FL		2011		N/A		
•	(3) BRIEF DESCRIPTION (Brief scope, size, cost, e	tc.) AND SPECIFIC ROLE	[X] Check if project	ct performed	with current firm		
a.	Principal. CMA prepared Stormwater Ma	ster Plans (SWMP) and Stor	mwater Master Plan U	Ipdates for v	various municipalities		
	throughout South Florida, including the C	ity of Pompano Beach, the	Town of Lauderdale-By	/-The-Sea,	and the City of		
	Hollywood. The purpose of these SWM	Ps was to identify any deficie	ncies in the existing st	ormwater m	nanagement systems in		
	regards to flood control and water quality	reatment. Cost: \$1.2 millio	n, Fee: \$661,360				
	Westchester Stormwater Study		PROFESSIONAL SE				
	Coral Springs, FL		2012		N/A		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, e	tc.) AND SPECIFIC ROLE	[X] Check if project	ct performed	with current firm		
b.	Project Manager, CMA conducted a stor	mwatar study of the Westeh	stor Noighborhood w	hich has his	starically appountared		
	some extensive flooding during and after significant rainfall events. CMA analyzed the expected performance of the existing						
	stormwater management system, identifi	ed problem areas where floo	ding is expected and i	recommend	stormwater		
	improvements within these flooding area	s. Fee: \$17,000					
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CO	MPLETED		
	Stormwater Master Plan Update		PROFESSIONAL SE	RVICES	CONSTRUCTION (If Applicable)		
			2011		N/A		
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, e	AND SPECIFIC ROLE	[X] Check if project	ct performed	with current firm		
	Principal. CMA was retained by the City	of Hollywood to prepare a St	ormwater Master Plan	nwater Master Plan Update for the entire City limits. The			
	City of Hollywood is fully developed with chiefly residential properties mixed with commercial properties and also includes so agricultural, industrial, institutional and government-owned properties. The project area includes approximately 18 680 acres						
	land which are separated into 44,745 pro	operties, Fee: \$103,220			Annalely 10,000 acres of		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CO	MPLETED		
	Fort Lauderdale Beach Park		PROFESSIONAL SE	RVICES	CONSTRUCTION (If Applicable)		
	Fort Lauderdale, FL		2012		2012		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, e	tc.) AND SPECIFIC ROLE	[X] Check if project	ct performed	with current firm		
d.	Principal. The purpose of this project was to provide the restoration and enhancement of the City-owned 6.5-acre "South						
	Beach" parking lot, located along SR A1,	A, south of Las Olas Bouleva	ard. The scope of work	included br	ringing the parking lot		
	into ADA compliance per requirements o	f consent decree, replacing	a deteriorating low prof	file wall and	sidewalk approximately		
	2100 feet in length, replacing existing lighting with turtle-compliant fixtures, and designing additional landscaping.						
	Cost. \$3.4 minion, Fee. \$196,780						
	(1) TITLE AND LOCATION (City and State)			(2) YEAR CO			
	Fort Lauderdale, FL		2008	INVICES	N/A		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, e	tc.) AND SPECIFIC ROLE	IXI Check if project	ct performed	with current firm		
	Consultant The entrance to Sunrise Key	is located at the intersection	of NE 6th Court and I	NF 19th Ave	enue in the City of Fort		
	Lauderdale. This area has a history of se	evere flooding due mainly to	a lack of storage for st	ormwater ru	unoff and back flow from		
е.	the Intracoastal Waterway through the ex	kisting outfall pipes during hi	gh tides. Some of the r	proposed in	provements in this area		
	included the construction of swales along	the west side of NE 19th A	venue and along both	sides of NE	6th Court, as well as the		
	installation of additional drainage piping	and larger inlet structures. T	he swales were constr	ructed to pro	ovide additional water		
	quality treatment volume and additional	storage volume for the storm	water runoff from the	roadway. C	hen Moore and		
	Associates also utilized a "tidal valve" to	neip alleviate any back flow	from the intracoastal th	hrough the d	buttall pipes.		
	Fee \$11,007						
	1						

	E. RESUMES O	F KEY PERSONNEL PROPOSED F		ст			
12. NAME 13. ROLE IN THIS CONTRACT			person.)	14.	14. YEARS EXPERIENCE		
	Cristobal Betancourt, RLA	Landscape Architecture and Planning		a. TOTAL	b. WITH CURRENT FIRM		
15	FIRM NAME AND LOCATION (City and State)			18	2		
10.	Chen Moore and Associates, Fort Lauderdale	, FL					
16.	EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRE	NT PROFESSIONAL F	REGISTRATIO	N (STATE AND DISCIPLINE)		
	Bachelor of Science / Landscape Architecture		egistered Landsca	ape Archited	zt		
			Registered Landsc	ape Archite	ct		
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications,	Organizations, Training, Awards, etc.)					
	Mr. Betancourt is Chen Moore and Associates	s' Director of Landscape Architec	ture and Planning	. He has ex	perience providing		
	planning and landscape architecture design s	olutions for public and private se	ctor clients. Mr. B	etancourt pr	ovides a full range of		
	impact development techniques applied to site	e planning.	a site design. The				
		19. RELEVANT PROJECTS					
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COM	IPLETED		
	Fort Lauderdale-Hollywood International	Airport Greenbelt	PROFESSIONAL SE	RVICES	CONSTRUCTION (If Applicable)		
	Fort Lauderdale, FL		2012	1	IN/A		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, et	tc.) AND SPECIFIC ROLE	[X] Check if project	t performed v	vith current firm		
	Landscape Architect Greenhelt Park loc	ated at Fort Lauderdale-Hollywo	d International Ai	rnort is the	30-acre park along		
a.	Griffin Road that buffers the airport prope	rty from the residential neighborh	nood to the South.	Broward C	ounty Aviation		
	Department (BCAD) tasked CMA with ide	entifying options which would red	uce or eliminate th	ne use of pot	table water for park		
	irrigation. The CMA team has compiled a	report of the opportunities and c	onstraints of utilizi	ng water so	urces such as reclaimed		
	significantly reduce overall water usage th	brough improved irrigation efficie	ncies and technologi	neu severar	as made		
	recommendations on native and salt toler	rant landscape plant palette. The	report concludes	with an opin	nion of probable costs,		
	future maintenance costs and projected v	vater usage for each of the provi	ded alternatives. F	ee: \$15,000)		
	(1) TITLE AND LOCATION (City and State)	age Improvements		(2) YEAR CON			
	Lauderdale-by-the-Sea, FL	age improvements	2012	RVICES	2013		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, et	tc.) AND SPECIFIC ROLE	[X] Check if project	t performed v	vith current firm		
	Landscape Architect. CMA provided utility	y coordination; roadway and stor	mwater design; go	vernment p	ermitting; and bidding		
b.	assistance for the development of the development	sign of streetscape and stormwat	ter improvements	to the down	town core and adjacent		
	areas east of Bougainvilla Drive in the To	own of Lauderdale by the Sea. If	e goals of this pro	ject were to	create an urban		
	pedestrian environment and safety while maintaining vehicular access to the businesses located on the				street and improving		
	vehicular circulation and parking, provide	s for expansion of outdoor dining	areas, and pays f	tribute to the	e Town's history. Fee		
	\$74,000; Cost \$1,870,000						
	(1) TITLE AND LOCATION (<i>City and State</i>) Pompano Beach Stormwater Master Plar		PROFESSIONAL SE	(2) YEAR CON	IPLETED CONSTRUCTION (If Applicable)		
	Pompano Beach, FL		2011		N/A		
-	(3) BRIEF DESCRIPTION (Brief scope, size, cost, et	tc.) AND SPECIFIC ROLE	[X] Check if project	t performed v	vith current firm		
C.	Landscape Architect. CMA prepared Stor	mwater Master Plans (SWMP) a	nd Stormwater Ma	aster Plan U	pdates for various		
	municipalities throughout South Florida, in	ncluding the City of Pompano Be	ach, the Town of I	Lauderdale-	By-The-Sea, and the		
	systems in regards to flood control and w	ater quality treatment. Cost: \$1.2	million. Fee: \$66	1.360	aler management		
	(1) TITLE AND LOCATION (City and State)			(2) YEAR COM	IPLETED		
	Downtown Coral Springs Streetscaping		PROFESSIONAL SE	RVICES			
	(3) BRIEF DESCRIPTION (Brief scope size cost et			t parformed w	uith ourrant firm		
d.	Broiset Manager, CMA has been contract	tod by the City of Corol Springe t	[∧] Check if project	Springe CP	A in the plenning		
	design, permitting and construction suppo	ort of various streetscaping impro	ovements in Down	town Coral S	Springs. As the prime		
	consultants, CMA is providing civil engine	eering, landscape architecture, ei	nvironmental perm	itting and co	onstruction engineering		
	and inspection services for the project. F	ee: \$ 273,579					
	(1) TITLE AND LOCATION (City and State) Fort Lauderdale Beach Park		PROFESSIONAL SE				
	Fort Lauderdale, FL		2012	:	2012		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, et	c.) AND SPECIFIC ROLE	[X] Check if project	t performed v	vith current firm		
е.	Landscape Architect. The purpose of this	s project was to provide the resto	ration and enhand	ement of th	e City-owned 6.5-acre		
	"South Beach" parking lot, located along	SR A1A, south of Las Olas Bould	evard. The scope of	of work inclu	Ided bringing the		
	parking iou into ADA compliance per requ approximately 2100 feet in length, replace	ing existing lighting with turtle-co	aoing a deteriorati moliant fixtures ar	ng iow profil	additional landscaping		
	Cost: \$3.4 million, Fee: \$198,780						
				STANDARD I	FORM 330 (6/2004) PAGE 2		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT							
12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE							
	Eric Harrison, RLA	Landscape Architecture	-	a. TOTAL	b. WITH CURRENT FIRM		
11 1							
15.	FIRM NAME AND LOCATION (City and State) Chen Moore and Associates, Fort Lauderdale	, FL					
16.	EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRI	ENT PROFESSIONAL RE	GISTRATIO	N (STATE AND DISCIPLINE)		
	Bachelor of Science / Landscape Architecture Associate of Arts /	FL/F	Registered Landscap	be Archited	ct		
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications,	Organizations, Training, Awards, etc.)					
	Mr. Harrison has over 10 years of landscape a	architecture experience with seve	eral municipalities th	roughout S	South Florida. He has		
	development and healthcare facilities	alon, campuses, K-12 education,	, corporate executive	e onice, re	tali commercial		
		19. RELEVANT PROJECTS					
(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED							
	Fort Lauderdale-Hollywood International	Airport Greenbelt	PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable)		
			2012				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, et	tc.) AND SPECIFIC ROLE	[X] Check if project	performed v	vith current firm		
	Landscape Architect. Greenbelt Park, loc	ated at Fort Lauderdale-Hollywo	od International Airp	oort, is the	30-acre park along		
а.	Department (BCAD) tasked CMA with ide	antifying options which would red	hood to the South. I	LUSE of pot	table water for park		
	irrigation. The CMA team has compiled a	report of the opportunities and o	constraints of utilizing	g water so	urces such as reclaimed		
	water, stormwater collection ponds, and l	orackish ground water. Additiona	Illy, the team identified	ed several	other opportunities to		
	significantly reduce overall water usage t	hrough improved irrigation efficie	encies and technolog	gy as well a	as made		
	recommendations on native and salt tole	rant landscape plant palette. The	e report concludes w	ith an opin م· \$15 000	nion of probable costs,		
	(1) TITLE AND LOCATION (City and State)	water usage for each of the provi	(2	2) YEAR CON	/ IPLETED		
	Mullins Park Pathways		PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable)		
	Coral Springs, FL		2013		2013		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, et	tc.) AND SPECIFIC ROLE	[X] Check if project	performed v	vith current firm		
b.	Landscape Architect. Chen Moore and Associates developed a master plan for a new pathway system for Mullins Park in the						
	City of Coral Springs. CMA is providing final design and construction administration. The project requires the development of						
	SFWMD. The pathways are made of a flexible surface to prevent injuries for pathway users. The layout required that the path						
	be developed sensitively through the park to connect to existing features, such as baseball fields, children's play areas, other						
	existing sports fields and to limit disturba	nce to existing mature canopy tre	ees. Fee: \$16,894; (Cost: \$85,	000		
	(1) TITLE AND LOCATION (City and State) Downtown Coral Springs Streetscaping		(2 PROFESSIONAL SER)	2) YEAR COM	APLETED		
	Coral Springs, FL		Ongoing	(Ongoing		
_	(3) BRIEF DESCRIPTION (Brief scope, size, cost, et	tc.) AND SPECIFIC ROLE	[X] Check if project	performed v	vith current firm		
C.	Landscape Architect. CMA has been contracted by the City of Coral Springs to assist the Coral Springs CRA in the planning,						
	design, permitting and construction support of various streetscaping improvements in Downtown Coral Springs. As the prime						
	consultants, CMA is providing civil engineering, landscape architecture, environmental permitting and construction engineering						
	(1) TITLE AND LOCATION (City and State)	ee. y 213,313	(2	2) YEAR COM	IPLETED		
	Coconut Creek Parkway		PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable)		
	(3) BRIEF DESCRIPTION (Priof score, size, cost of		2012		2013		
	Landagana Arabitaat CMA provided prof	and any increase to the Margata	CRA to coordinate (performed v			
d.	of Coconut Creek Parkway between SR7	and Banks Road CMA coordin	ated with Broward (Survey and	flic Engineering to		
	determine the possibility of installing a median with turning lanes in the existing center suicide lane. Coordination was also						
	required with Broward County Highway C	Construction Engineering Divisior	n, the Florida Depart	ment of Tr	ansportation, and		
	Broward County Environmental Protectio	n and Growth Management Divis	sion for surface wate	er managei	ment permitting. Fee:		
	539,291, COSI. 5750,000		(2)				
	Westside Park Baseball Field		PROFESSIONAL SERV	VICES (CONSTRUCTION (If Applicable)		
	Deerfield Beach, FL		2013 (phase 1)		2013 (phase 1)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, et	tc.) AND SPECIFIC ROLE	[X] Check if project	performed v	vith current firm		
e.	Landscape Architect. CMA is providing d	esign, permitting and constructio	n engineering inspe	ction servi	ces for the conversion		
	of an existing football field to one little lea	gue baseball field and one pract	ice baseball field for	the City o	f Deerfield Beach Parks		
	and Recreation Department. The project Boulevard, offering two lighted basketball	is located in Westside Park, white	cn is a 15 acre park	iucated so	is courts a full service		
	recreation center, full size gym, picnic are	eas and a newly renovated plava	round. Fee: \$72,865	5; Cost: \$8	00,000		
	, , , ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,	,	,				

	E. RESUMES OI	F KEY PERSONNEL PROPOSED	FOR THIS CONTRACT				
12. 1	IAME	13. ROLE IN THIS CONTRACT	y porcon.)	14.	YEARS EXPERIENCE		
	Joel Brownsey	Planning		a. TOTAL	b. WITH CURRENT FIRM		
15 0				12	8		
15. 1	Chen Moore and Associates, Fort Lauderdale	, FL					
16. E	EDUCATION (DEGREE AND SPECIALIZATION)	17. CUR	RENT PROFESSIONAL RE	GISTRATIO	N (STATE AND DISCIPLINE)		
E	Bachelor of Arts / Urban Planning						
/	Associate of Science / Surveying and Mapping	9					
18. (((18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Iraining, Awards, etc.) Mr. Brownsey has over 11 years of experience in the Civil Engineering field where he has worked alongside engineers in a variety of disciplines such as site design, utility infrastructure design, and surveying. His experience in south Florida to date includes detailed design work on two neighborhood right of way infrastructure improvement projects for the City of Miami Beach, and on several Engineering projects for the City of Fort Lauderdale. He also provides technical solutions for the Fort Lauderdale and Miami Beach						
	JIICES.	19. RELEVANT PROJECTS	3				
	(1) TITLE AND LOCATION (City and State)		(2) YEAR CON	/IPLETED		
	Fort Lauderdale-Hollywood International / Plan Update Fort Lauderdale, FL	Airport Stormwater Master	PROFESSIONAL SERV 2009	/ICES	CONSTRUCTION (If Applicable) N/A		
Γ	(3) BRIEF DESCRIPTION (Brief scope, size, cost, et	c.) AND SPECIFIC ROLE	[X] Check if project p	performed w	with current firm		
	Planner. Under Phase 1 of this project, B	roward County Aviation Depart	ment (BCAD) retained	d CMA to	update the FLL		
a.	Stormwater Master Plan (SWMP), which	was completed by a previous c	onsultant in 2001. CM	IA reviewe	ed the data and analysis		
	from all prior reports, converted the existing	ng stormwater model from SWI	MM to ICPR, and upd	ated the I	CPR model with any		
	new system data and new projects provid	led by BCAD. CMA updated the	e existing conditions s	stormwate	r model and created the		
	tuture conditions stormwater model to ass	sess alternative drainage impro	vements needed to a	chieve rec	juired and desired		
	of pre-development (existing) conditions	ersus post-development (futur	e) conditions from a v	vater quar	nos for the companson		
	quality (storage) perspective. Fee: \$350.9	950		vator quar	inty (runon) and water		
	(1) TITLE AND LOCATION (City and State)		(2) YEAR CON	I PLETED		
	Sanitary Sewer at Pompano Air Park		PROFESSIONAL SERV	/ICES	CONSTRUCTION (If Applicable)		
	Pompano Beach, FL		2007		2010		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE [X] Check if project performed with current firm						
b.	Planner. CMA was contracted by the City of Pompano Beach for the landside improvements at Pompano Beach Air Park (PBO). The proposed development included the installation of the utilities (new force main, water main, gravity sewer and reus services) as well as parking and drainage improvements to the existing parking lot servicing the tower and a reconstructed access roadway. Due to the urgency from the Pompano Airpark, the project was divided in two bids. The first bid was for the Pompano Airpark Water Service which included 4000 linear feet of water main and roadway reconstruction. The second bid package was for Pompano Airpark Sewer System, which included a small grinder station, 1500 linear feet of gravity mains and 760 linear feet of reuse water, along with the parking lot improvements. Cost: \$675,000, Fee: \$36,865						
	(1) TITLE AND LOCATION (City and State)) YEAR CON	APLETED		
	Fort Lauderdale, FL		2012	ICES	2012		
-					- 211		
~	(3) BRIEF DESCRIPTION (Brief scope, size, cost, et	c.) AND SPECIFIC ROLE	[X] Check if project p	berformed v	with current firm		
0.	Design/project coordination. The purpose of this project was to provide the restoration and enhancement of the City-owned 6.5- acre "South Beach" parking lot, located along SR A1A, south of Las Olas Boulevard. The scope of work included bringing the parking lot into ADA compliance per requirements of consent decree, replacing a deteriorating low profile wall and sidewalk approximately 2100 feet in length, replacing existing lighting with turtle-compliant fixtures, and designing additional landscaping. Cost: \$3.4 million. Fee: \$198,780						
	(1) TITLE AND LOCATION (City and State)		(2) YEAR CON	APLETED		
	Stormwater Master Plan		PROFESSIONAL SERV	/ICES	CONSTRUCTION (If Applicable)		
-	(3) BRIEF DESCRIPTION (Brief scope size cost et		2011	orformed	with ourroat firm		
d.	Diamar Dringing CMA prepared Storm	vistor Master Plana (S)//MD) an					
	Planner. Principal. CMA prepared Stormwater Master Plans (SWMP) and Stormwater Master Plan Updates for various municipalities throughout South Florida, including the City of Pompano Beach, the Town of Lauderdale-By-The-Sea, and the City of Hollywood. The purpose of these SWMPs was to identify any deficiencies in the existing stormwater management						
	(1) TITLE AND LOCATION (City and State)	ater quality treatment. COSC \$1	<u>ר נוווווטוו. רפפ. 200 .</u> . (2) YEAR CON	/IPLETED		
	Westchester Stormwater Study		PROFESSIONAL SERV	/ICES	CONSTRUCTION (If Applicable)		
ŀ	(3) BRIEF DESCRIPTION (Priof soons size cost of			orform	with ourront firm		
e.	Dienser OMA			Denormed V			
	extensive flooding during and after signific stormwater management system, identific	cant rainfall events. CMA analy ed problem areas where floodir	ornood, which has his zed the expected per ig is expected and rec	storically e formance commend	of the existing stormwater		
	inprovemente within these needing dread	φιή,000					

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE QUALIFICATIONS FOR THIS CONTRA (Present as many projects as requested by the agency of 1	20. EXAMPLE PROJECT KEY NUMBER				
Complete one Section F for each proje	1				
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED				
ort Lauderdale-Hollywood International Airport Stormwater laster Plan Update ort Lauderdale, FL	PROFESSIONAL SERVICES 2008	IONAL SERVICES CONSTR 2012			

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Broward County Aviation Department	Carlos Hernandez	(954) 359-2255

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

Under Phase 1 of this project, BCAD retained Chen Moore and Associates (CMA) to update the FLL Stormwater Master Plan (SWMP), which was completed by a previous consultant in 2001. CMA reviewed the data and analysis from all prior reports, converted the existing stormwater model from SWMM to ICPR, and updated the ICPR model with any new system data and new projects provided by BCAD. CMA updated the existing conditions stormwater model and created the future conditions stormwater model to assess alternative drainage improvements needed to achieve required and desired Levels of Service (LOS) for various storm events. The stormwater model was used to run rainfall scenarios for the comparison of pre-development (existing) conditions versus post-development (future) conditions from a water quantity (runoff) and water quality (storage) perspective. The stormwater model was used to analyze the performance of the



existing Primary Stormwater Management System (PSMS). Phase 1 for this project included the following work items:

- Review and verify of earlier work by other consultants during 2001-2005
- Convert previous SWMM stormwater model to ICPR model
- Obtain updated topographic data for TIN development
- Calculate updated hydrologic parameter for drainage basins
- Conduct analysis of various system improvement alternatives
- Prepare Stormwater Master Plan Update

The purpose of Phase 2 is to provide routine updates to the stormwater model(s) based on progress design drawings of the South Runway Expansion Project and the associated future development, including but not limited to, terminal and gate area improvements. The existing stormwater model created during Phase 1 includes design assumptions based on preliminary planning documents for the South Runway Expansion Project. The updates to the stormwater model during Phase 2 will be based on progress design submittals for the South Runway Expansion Project and approved design plans for other new development at FLL, which will enhance the accuracy of the stormwater model. Phase 2 for this project includes the following work items:

- Prepare a Stormwater Capital Improvement Plan for FLL
- Certify existing permits at FLL
- Provide ongoing stormwater permitting assistance to BCAD
- Ongoing coordination with the design team for South Runway Expansion Project
- Complete drainage review of various developments throughout FLL
- Develop drainage design standards manual
- Prepare application package for stormwater conceptual permit for FLL

Fee: \$735,000

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT						
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE				
a.	Chen Moore and Associates	Fort Lauderdale, FL	Prime - Civil Engineering				

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE QUALIFICATIONS FOR THIS CONTRA (Present as many projects as requested by the agency, or 10 Complete one Section F for each proje	PROPOSED TEAM'S ACT) projects, If not specified. hct.)	20. EXAMPLE PROJECT KEY NUMBER 2
21. TITLE AND LOCATION (<i>City and State</i>)	22. YEAR C	OMPLETED
Stormwater Infrastructure Assistance	PROFESSIONAL SERVICES	CONSTRUCTION (if Applicable)
Fort Lauderdale, FL	2013	N/A

a.	PROJECT OWNER Odebrecht Central	b. POINT OF CONTACT NAME Rodrigo Ariza	C.	POINT OF CONTACT TELEPHONE NUMBER (305) 704-5810

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

Chen Moore and Associates was retained by Odebrecht Central to provide stormwater consulting during the construction phase of the South Runway Expansion Project at Fort Lauderdale-Hollywood International Airport (FLL). Odebrecht Central was the contractor for the FLL Site Preparation and NAVAIDS Infrastructure Project, which include the earthwork and utility upgrades under the South Runway Expansion Project. Since CMA was responsible for maintaining the overall ICPR stormwater model of the stormwater management system at FLL, CMA used the ICPR stormwater model to analyze the impact of any temporary system modifications during the construction phase on its performance throughout FLL. Odebrecht Central needed to implement some temporary modifications to the existing stormwater management system at FLL during the construction phase of the FLL Site Preparation and NAVAIDS Infrastructure Project. CMA assisted Odebrecht Central with assessing the proposed temporary modifications to the existing stormwater management system on an as-needed basis. CMA used the ICPR model to the potential impacts of these system modifications. For example, some existing stormwater pipes needed to be temporarily converted into an open channel connection during the dynamic compaction operations.

Fee: \$6,000





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Chen Moore and Associates	Fort Lauderdale, FL	Prime - Civil Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT			20. EXAMPLE PROJECT KEY NUMBER	
(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)			3	
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED			
Pompano Beach, FL	PROFESSIONAL SERVICES 2007	CONST 2010	RUCTION (if Applicable)	

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Pompano Beach	Helen Gray	(305) 792-1913

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

Chen Moore and Associates was contracted by the City of Pompano Beach for the landside improvements at Pompano Beach Air Park (PBO). The proposed development included the installation of the utilities (new force main, water main, gravity sewer and reuse services) as well as parking and drainage improvements to the existing parking lot servicing the tower and a reconstructed access roadway. Due to the urgency from the Pompano Airpark, the project was divided in two bids. The first bid was for the Pompano Airpark Water Service which included 4000 linear feet of water main and roadway reconstruction. Once completed, the new FBO development began construction. The second bid package was for Pompano Airpark Sewer System, which included a small grinder station, 1500 linear feet of gravity mains and 760 linear feet of reuse water, along with the parking lot improvements.

Fee: \$ 36,865; Cost: \$675,000



	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT				
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE		
a.	Chen Moore and Associates	Fort Lauderdale, FL	Prime – Civil Engineering		
			STANDARD FORM 330 (6/2004) PAGE 3		

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE I QUALIFICATIONS FOR THIS CONTRA	20. EXAMPLE PROJECT KEY NUMBER		
(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)			4
21. TITLE AND LOCATION (City and State)	22. YEAR C	OMPLET	ED
Lauderdale-By-The-Sea, FL	PROFESSIONAL SERVICES 2010	CONST N/A	RUCTION (if Applicable)

	-	
a. PROJECT OWNER	 POINT OF CONTACT NAME 	c. POINT OF CONTACT TELEPHONE NUMBER
Lauderdale-By-The-Sea	Don Prince	(954) 776-5119
-		

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

Chen Moore and Associates completed the Stormwater Master Plan for the Town of Lauderdale-by-the-Sea. Like other coastal communities in South Florida, the Town of Lauderdale-By-The-Sea is fully developed with chiefly residential properties mixed with commercial properties. The project area includes approximately 640 acres of land which are separated into 1,618 properties, which encompasses approximately 1.5 square miles of land area. The Town of Lauderdale-By-The-Sea maintains its own stormwater facilities. Existing drainage facilities within the Town include catch basins connected by pipe of various materials and sizes to either exfiltration trench or positive outfalls into the Intracoastal Waterway and canals. Private drainage systems also discharge into the Intracoastal Waterway and canals. Unpaved swales are found within right-of-way areas for additional stormwater storage.

The purpose of this Stormwater Master Plan was to:

- Identify any deficiencies in the existing stormwater management system
- Recommend system improvements to meet regulatory level of service criteria
- Provide an estimated cost to construct these upgrades to the stormwater management system

This project included the following tasks:

- Gathering all existing information available from previous drainage plans, utility atlases, regulatory permits, reports, and studies
- Confirming accuracy for use in the existing conditions model
- Updating the digital stormwater atlas in GIS
- Utilizing LIDAR data to create a TIN surface model of the Town limits
- Collecting resident complaints in regards to flooding
- Preparing the existing conditions model with Interconnected Pond Routing (ICPR) Software
- Identifying areas with flooding issues
- Recommending and prioritizing stormwater improvements



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Chen Moore and Associates	Fort Lauderdale, FL	Prime – Civil Engineering



F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE	20. EXAMPLE PROJECT			
QUALIFICATIONS FOR THIS CONTRA	KEY NUMBER			
(Present as many projects as requested by the agency, or 10 projects, If not specified.			5	
Complete one Section F for each proje	Complete one Section F for each project.)			
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED			
Pompano Beach, FL	PROFESSIONAL SERVICES 2011	CONST N/A	TRUCTION (if Applicable)	

a.	PROJECT OWNER	 POINT OF CONTACT NAME 	с.	POINT OF CONTACT TELEPHONE NUMBER
	City of Pompano Beach	Robert McCaughan		(954) 786-4106

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

Chen Moore and Associates has prepared Stormwater Master Plans (SWMP) and Stormwater Master Plan Updates for various municipalities throughout South Florida, including the City of Pompano Beach, the Town of Lauderdale-By-The-Sea, and the City of Hollywood. The purpose of these SWMPs was to identify any deficiencies in the existing stormwater management systems in regards to flood control and water quality treatment. To assess this, existing information was gathered including previous master plans, atlases, permits, reports and studies; digital stormwater atlas in GIS; LIDAR data for the creation of a TIN surface model; resident complaints regarding flooding; and Client Staff observations regarding flooding. The SWMPs allow the municipalities to understand the necessary drainage improvements over the next few years and to budget accordingly. As part of each SWMP, CMA recommended system improvements to meet regulatory Level of Service (LOS) criteria in



regards to peak flood stage, peak discharge, and water quality. Within the SWMPs, CMA provided recommendations for improvements to the system that will eliminate or reduce the ponding currently encountered within right-of-way areas during or after rainfall events. The SWMPs defined the existing stormwater management system; summarized the results of the stormwater model for the existing conditions; prioritized the proposed improvements to the stormwater management systems; and provided estimated costs to construct these upgrades to the stormwater management systems.

As part of these documents, CMA has also assisted the Client with the documentation of how the Floodplain Management Plan was prepared per the requirements of FEMA under the CRA program and complied with the requirements of FDEP under the SRF program.

Fee: \$661,360; Cost: \$1.2 million



	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE	
a.	Chen Moore and Associates	Fort Lauderdale, FL	Prime – Civil Engineering	

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.			20. EXAMPLE PROJECT KEY NUMBER	
Complete one Section F for each proje	0			
TITLE AND LOCATION (City and State)	22. YEAR COMPLETED			
Pompano Beach, FL	PROFESSIONAL SERVICES 2004	CONST Ongo	rRUCTION (if Applicable) ing	

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Pompano Beach	Alessandra Delfico	(954) 786-4144

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

Chen Moore and Associates was selected by the City of Pompano Beach to serve as the design engineer for various drainage improvement projects:

Sub-basin NC 2-1 - The project area encompassed 14 acres of completely residential land use. Chen Moore and Associates has designed the drainage improvements, following the recommendation of the Stormwater Management Master Plan (SMMP) and Alternatives Development and Conceptual Design of Basins Ranked 21-40 (ADCDBR). The permits are completed and the construction improvements to Sub-basin NC 2-1 are currently underway.

NW 1-3 - Chen Moore and Associates was selected by the City of Pompano Beach to serve as the design engineer for Sub-basin NW 1-3. The project area encompasses 0.8 acres for completely commercial/industrial area. Chen Moore and Associates has designed the drainage improvements also, following the recommendation of the Stormwater Management Master Plan (SMMP) and Alternatives Development and Conceptual Design of Basins Ranked 21-40 (ADCDBR). The permits are completed and bid documents have been provided along with the associated materials for the construction of improvements of Sub-basin NW 1-3.

NC 2-3 and CT 3-3 - Chen Moore and Associates was responsible for the design and permitting of drainage improvements for the CT3-3 and NC 2-3 sub-basins. Chen Moore and Associates has designed the drainage improvements, following the recommendation of the Stormwater Management Master Plan (SMMP) and Alternatives Development and Conceptual Design of Basins Ranked 21-40 (ADCDBR). The project was successfully designed and permitted.

CT 3-1 - Chen Moore and Associates was selected by the City of Pompano Beach to serve as the design engineer for a 47-acre drainage improvement project. Chen Moore and Associates has designed the drainage improvements, following the recommendation of the Stormwater Management Master Plan (SMMP) and Alternatives Development and Conceptual Design of Basins Ranked 21-40 (ADCDBR). The project area is nearly completely commercial/industrial in nature. Chen Moore and Associates conducted a proactive public relations campaign to keep the businesses informed for coordination purposes in the construction phase. Chen Moore and Associates also carefully studied the existing utilities in the area to avoid unnecessary relocations during the drainage retrofit.

Fee: \$350,000; Cost: \$1.5 million

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT				
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE		
a.	Chen Moore and Associates	Fort Lauderdale, FL	Prime - Civil Engineering		
	STANDARD FORM 330 (6/2004) PAGE 3				

	F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S 20. EXAMPLE PROJECT QUALIFICATIONS FOR THIS CONTRACT EXAMPLE PROJECT KEY NUMBER					
(Present as many projects as requested by the agency, or 10 projects, If not specified.						7
21.	21. TITLE AND LOCATION (City and State) Stormwater Improvements			22. YEAR COMPLETED		
	Lauderdale By The Sea, FL		PROFESSIONAL SERVICES CONSTRUCTION (if Applicable) 2010 2013		TRUCTION (if Applicable)	
		23. PROJECT OWNER		TION	2010	
a.	PROJECT OWNER	b. POINT OF CONTACT NAI	ME	c. POINT OF COI	NTACT TE	LEPHONE NUMBER
24	Lauderdale-By-The-Sea	Don Prince	de scope, size	(954) 776-5	119	
2	Chen Moore and Associates has co Flamingo Avenue - Chen Moore a Avenue between North Ocean Driv included the installation of new exfi project area is located seaward of permitting the project through FDEF	ompleted the following stormwate and Associates developed engi ve and the beach area within th ltration trench which were interc the Coastal Construction Contro P. Fee: \$29,500	er improver neering dra e Town of onnected v ol Line (CC	nent projects for the ⁻ awings for stormwate Lauderdale-By-The-S <i>i</i> th existing drainage CL), Chen Moore an	Fown of er impro Sea. The structur d Assoc	Lauderdale-by-the-Sea: vements along Flamingo e drainage improvements es. Since a portion of the iates was responsible for
	West Tradewinds Avenue - Chen West Tradewinds Avenue from Mir adjacent to the Intracoastal Waterv which are undersized. In order to included the installation of new exf pipes. The existing outfall pipes we	Moore and Associates develop ramar Avenue to South Tradew vay. The existing flooding within provide additional storage capa iltration trench system within the re also rehabilitated or replaced	ed constru inds Avenu the projec city for sto e public rig during the	ction documents for e, which is located w t area was chiefly ca rmwater runoff, the p ht of way which inter completion of this pro	stormwa vithin a used by proposed connect pject. Fee	ater improvements along low lying residential area the existing outfall pipes d drainage improvements s with the existing outfall e: \$20,833
	Harbor Drive - Chen Moore and Associates was retained by the Town of Lauderdale-By-The-Sea to develop engineering plans for stormwater improvements along Harbor Drive. The stormwater improvements are necessary along Harbor Drive to meet the level of service criteria for flood protection. The project area includes Harbor Drive between West Tradewinds Avenue and Sea Grape Drive along with East Tradewinds Avenue between Commercial Boulevard and Harbor Drive. The existing conditions model identified the public right-of-way areas along Harbor Drive to be prone to extensive ponding during heavy rainfall events. The ponding issues along Harbor Drive were confirmed based on our observations during heavy rainfall along with the historical knowledge of the Town staff. The ponding issues along Harbor Drive are due to a chiefly impervious ground surface within the right-of-way areas which receives stormwater runoff from the adjacent private properties. Due to the existing conditions of the ground surface, it is not feasible to completely prevent the flow of stormwater runoff from adjacent properties. The proposed stormwater improvements for this project include the installation of underground exfiltration trench which will be interconnected with existing and proposed catch basin inlets in order to provide additional flood protection within the public right-of-way areas. Fee: \$16,523					
	19th Street - The stormwater improvements were necessary along 19th Street to provide additional flood protection to this very low lying area. The project area includes the full length of 19th Street to the west of US A1A, which includes approximately 2,000 linear feet of 50 feet wide public right of way. The flooding along 19th Street has been observed by Town staff during past rainfall events. The flooding issues along 19th Street are chiefly due to the low ground surface elevation relative to the groundwater table and tidal levels at the existing outfalls, which limits the infiltration of stormwater runoff into the ground surface and the flow of stormwater runoff via the existing outfalls. The flooding issues are further compounded by the poor condition of the existing drainage piping along 19th Street. According to recent television inspections, portions of the existing drainage piping are cracked and partially collapsed, which restrict the flow of stormwater runoff to the existing outfalls and prolongs the flooding duration within the right of way areas. Stormwater improvements were necessary to reduce the extent of flooding during and after heavy rainfall events. The stormwater improvements for this project included the replacement of any existing damaged drainage piping to allow stormwater runoff to flow to the existing two outfalls. This project will also include the regrading of grass swale areas in the public right of way areas to provide additional storage volume for stormwater runoff. Due to the low ground surface elevation of 19th Street, the installation of extilitation trench will not be a feasible option for stormwater improvements. Fee: \$30 134					
	H.A.T Chen Moore and Associates was retained by the Town of Lauderdale-By-The-Sea to develop engineering plans for stormwater improvements within the H.A.T. neighborhood: Hibiscus Avenue, Allenwood Drive and Tropic Drive. The project area consists of a residential neighborhood along Hibiscus Avenue, Allenwood Drive and Tropic Drive, bounded to the west by Seagrape Drive. Tropic Drive is the lowest elevation of this neighborhood and is prone to flooding during heavy rainfall as observed by the Town staff. The ponding issues are due to the low ground elevations, undersized outfall pipes and amount of impervious ground surface within the right-of-way areas. The proposed stormwater improvements for this project include the installation of pipe to interconnect the two existing outfalls, the upsize of one outfall pipe and the installation of swales throughout the public right-of-way in the neighborhood.					
	H.A.T. Neighborhood Improvements. Chen Moore and Associates was retained by the Town of Lauderdale-By-The-Sea to develop engineering plans for stormwater improvements within the H.A.T. neighborhood: Hibiscus Avenue, Allenwood Drive and Tropic Drive. The project area consists of a residential neighborhood along Hibiscus Avenue, Allenwood Drive and Tropic Drive, bounded to the west by Seagrape Drive. Tropic Drive is the lowest elevation of this neighborhood and is prone to flooding during heavy rainfall as observed by the Town staff. The ponding issues are due to the low ground elevations, undersized outfall pipes and amount of impervious ground surface within the right-of-way areas. The proposed stormwater improvements for this project include the installation of pipe to interconnect the two existing outfalls, the upsize of one outfall pipe and the installation of swales throughout the public right-of-way in the neighborhood. Fee: \$20,313					
	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT					
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3	3) ROLE		
а.	Chen Moore and Associates	Fort Lauderdale, FL		Prime - Civil Engin	eering	

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.)		
22. YEAR COMPLETED		
PROFESSIONAL SERVICES 2012	CONST N/A	RUCTION (if Applicable)
	PROFESSIONAL SERVICES 2012	PROPOSED TEAM S ACT () projects, If not specified. () 22. YEAR COMPLET PROFESSIONAL SERVICES 2012 N/A

	-				
a.	PROJECT OWNER	b.	POINT OF CONTACT NAME	C.	POINT OF CONTACT TELEPHONE NUMBER
	City of Coral Springs		Rich Michaud		(954) 344-1165

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

The City of Coral Springs has requested that Chen Moore and Associates conduct a stormwater study of the Westchester Neighborhood, which has historically encountered some extensive flooding during and after significant rainfall events. The general boundaries of the neighborhood are Sample Road to the north, Royal Palm Boulevard to the south, NW 123rd Avenue to the west, and Coral Ridge Drive to the east. The study area will also include adjacent areas which are hydraulically connected to the Westchester Neighborhood. Since there is a history of past flooding within the study area, the CITY is interested in implementing stormwater improvements for the purpose of reducing the extent of flooding. The purpose of this study is listed below:

- Analyze the expected performance of the existing stormwater management system
- Identify problem areas where flooding is expected
- Recommend stormwater improvements within these flooding areas
- Estimate implementation costs for any recommended stormwater improvements
- Develop a phasing plan for any recommended stormwater improvements

Fee: \$17,000



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Chen Moore and Associates	Fort Lauderdale, FL	Prime – Civil Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE QUALIFICATIONS FOR THIS CONTR (Present as many projects as requested by the agency, or 10 Complete one Section F for each proje	20. EXAMPLE PROJECT KEY NUMBER 9	
21. TITLE AND LOCATION (City and State)	22. YEAR C	OMPLETED
Stormwater Master Plan Update Hollywood, FL	PROFESSIONAL SERVICES 2011	CONSTRUCTION (if Applicable)

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
City of Hollywood	Francois Domond	(954) 921-3930 x 8957
, ,		

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

Chen Moore and Associates was retained by the City of Hollywood to prepare a Stormwater Master Plan Update for the entire City limits. The City of Hollywood is fully developed with chiefly residential properties mixed with commercial properties and also includes some agricultural, industrial, institutional and government-owned properties. The project area includes approximately 18,680 acres of land which are separated into 44,745 properties. The City of Hollywood operates and maintains its own stormwater facilities to provide flood control and water quality treatment within the City limits. Existing drainage facilities within the City include storm inlets, gravity pipes, pump stations, pressure mains, injection wells, outfalls and canals that connect to the Intracoastal Waterway.

The Stormwater Master Plan Update was intended to be a guide for improving the performance of the City's stormwater management system while meeting regulatory requirements for flood control, peak stages, peak discharge, and water quality of stormwater runoff. The City of Hollywood will use this Stormwater Master Plan Update to develop a preliminary schedule and budget for priority capital improvements to the stormwater management system. The purpose of this Stormwater Master Plan Update for the City of Hollywood can be defined as follows:

- Review 2004 Stormwater Master Plan prepared by previous consultant
- Update the existing stormwater model with new LIDAR topographic data, enhanced hydrologic parameters, and recent drainage projects
- Identify any deficiencies in the existing stormwater management system from a water quantity and water quality perspective under various scenarios
- Recommend system improvements to address "problem areas" while meeting regulatory level of service (LOS) criteria
- Prepare a budget level cost estimate to implement these upgrades to the stormwater management system
- Develop a long range budget of Capital Improvement Projects (CIP) for the stormwater management system
- Comply with requirements of FEMA under CRS Program
- Comply with requirements of FDEP under SRF Program

Drainage System Extension



Fee: \$103,220

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Chen Moore and Associates	Fort Lauderdale, FL	Prime – Civil Engineering

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT			20. EXAMPLE PROJECT KEY NUMBER
(Present as many projects as requested by the agency, or 10 projects, If not specified. Complete one Section F for each project.)			10
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED		
Fort Lauderdale, FL	PROFESSIONAL SERVICES 2012	CONST 2012	RUCTION (if Applicable)

a. PROJECT OWNER	b. POINT OF CONTACT NAME	 POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Earl Prizlee	(954) 828-6522
•		

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

The purpose of this project was to provide the restoration and enhancement of the City-owned 6.5acre "South Beach" parking lot, located along SR A1A, south of Las Olas Boulevard. The scope of work includes bringing the parking lot into ADA compliance per requirements of consent decree, replacing a deteriorating low profile wall and sidewalk approximately 2100 feet in length, replacing existing lighting with turtle-compliant fixtures, and designing additional landscaping. Chen Moore and Associates prepared the required DRC submittal, which included all required public purpose approvals, as well as a conceptual layout of a new entrance at the southern end of the parking lot. This project was a joint effort between various City departments, including the City of Fort Lauderdale Beach Community Redevelopment Agency and Parking Services.

Fee: \$198,780; Cost: \$3.4 million



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Chen Moore and Associates	Fort Lauderdale, FL	Prime – Civil Engineering

26. NAMES OF KEY PERSONNEL	27. ROLE IN THIS CONTRACT	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for									
(From Section E,	(From Section E, Block 13)			p	articipati	ion in sa	me or si	imilar rol	e.)		
DIUCK 12)		1	2	3	4	5	6	7	8	9	10
Peter Moore, P.E., LEED AP	Civil Engineer	X		x	x	x	Х			х	x
Jason McClair, P.E., CFM, LEED AP	Civil Engineer	х	x	x	x	x	x	x	х	х	x
Jennifer Smith, P.E.	Civil Engineer	x	x	x		х	х	x	х	х	x

G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Fort Lauderdale-Hollywood International Airport Stormwater Master Plan Update Phase 2	6	Drainage Improvement Program
2	Stormwater Infrastructure Assistance	7	Stormwater Improvements
3	Sanitary Sewer at Pompano Air Park	8	Westchester Stormwater Study
4	Stormwater Master Plan	9	Stormwater Master Plan Update
5	Stormwater Master Plan	10	Fort Lauderdale Beach Park

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 Broward, Miami-Dade. Palm Beach, Martin 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**













	7
31. SIGNATURE	2/
33. NAME AND TITLE Peter Moore, P	E., LEED AP, Preside

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

32. DATE 1/30/14

ent

ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (IF ANY) 946-11333

	PAR (If a firm has branch office	T II –GE s. compl	NERAL QUA	LIFICATIC	ONS Inch office seek	ing work)			
2a. FIRM (OR BRANCH OFFICE) NAME						3. YEAR ESTABLISHED 4. DUNS NUM			
2h STREE	Chen Moore and Associates				6 OWA	2011	859459547		
500 W	V. Cypress Creek Rd., Suite 630					anorin'			
2c. CITY						Corporation			
Fort Lauderdale				33309	33309 b. SMALL BUSINESS STATUS				
a. POINT	OF CONTACT NAME AND TITLE					Small B	usiness		
Peter	Moore, PE, LEED AP, President and	CEO			7. NAME	OF FIRM (If block	2a is a branch office)		
(054)	TONE NUMBER 6c. E-MAIL ADDRESS								
(954)	730-0707, ext 1002 pintore@crie	nmoore.	com			ESTABLICUED			
	Ca. PORMER FIRM NAME	s) (ii aliy)			100C	ESTABLISHED 8	C. DUNS NUMBER		
	Chen and Associate Consulting Engi	neers, Ir	IC.	-	1960		359459547		
	9. EMPLOYEES BY DISCIPLIN	E		10. ANNU	. PROFILE OF AL AVERAGE I	F FIRM'S EXPE REVENUE FO	RIENCE AND R LAST 5 Y EARS		
a. Function		c. No.	of Employees	a. Profile					
Code	b. Discipline	(1) Firm	(2) Branch	Code	b. Experience	<u>4 P 7 · · · · · · · · · · · · · · · · · ·</u>	below)		
02	Autimisuative	3	5	010	Commercial Bu	iliding; (low rise) ers); 1		
08	CADD Technician	9	6	C15	Construction M	ananement	1		
12	Civil Engineer	18	6	C18	Cost Estimating	a: Cost Enginee	ring 2		
		1.00			and Analysis; F	nd Analysis; Parametric Costing;			
15	Construction Inspector	1	1	E02	Education Faci	ecasting			
16	Construction Manager	2	1	E09	Environmental	nvironmental Impact Studies			
	,				Assessments o	sessments or Statements			
39	Landscape Architect	3	0	G04	GIS developme	development, analysis, data			
				H07	Highways; Stre	ghways; Streets; Airfield; Parking			
				L03	Landscape Arc.	ndscape Architecture			
				P05	Planning (Com	lanning (Community, Regional)			
1			1	P06	Planning (Site,	anning (Site, Installation)			
		· · · · · · · · · · · · · · · · · · ·		P13	Public Safety F	acilities	2		
				R04 R06	Recreation Fac	ilities (Parks, etc.	2) 2		
				D11	Renab. (Buildin	ys, Structures)	J 1		
				KII	Control	vvaterways; Floo			
		8		S04	Sewage Collect	rage Collection & Treatment			
_			10	S11	Sustainable De	tainable Design			
1		1		S13	Stormwater Har	rmwater Handling & Facilities			
			1	T02	Testing & Inspe	sting & Inspection Services			
1000			A	T03	Traffic & Transp	portation	2		
				V01	Value Analysis;	Life-Cycle Cos	ting 1		
1				W03	Water Supply, 1	reatment, Distri	b. 4		
		38	19	CCIONIAL OF		INDEX NUMBER			
REVENU	IES OF FIRM FOR LAST 3 YEARS	1. Less t	han \$100,000	SSICINAL SE	6. \$2	million to less that	n \$5 million		
(Insert rev	venue index number shown at right)	2. \$100,0	000 to less than S	\$250,000	7. \$5	million to less that	n \$10 million		
Federal W	Vork 1	3. \$250,0	000 to less than 9	500,000	8. \$1	0 million to less the	an \$25 million		
Total Wor	k 6	4. φουυ, 5. \$1 mil	lion to less than t	2 million	9, \$2 10, \$5	o million to less the 0 million or oreater	an 950 million		
	12.	AUTHOR	RIZED REPRE	SENTATIVE	10. 00	a since a greater			
SIGNATU	IRE B	The forego	ing is a statemen	t of facts.		b. DA	TE		
NAME AN	DTITUE	_	_			1/30/1	4		
Peter Moc	pre, PE LEED AP, President			-					

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT								
12. N	AME	_	14. YEA	RS EXPERIENCE					
	Pobocca Mainardi	Project Manager		a. TOTAL	b. WITH CURRENT FIRM				
				14	4				
15. FI	RM NAME AND LOCATION (City and State)								
	Panthe	r International, LLC, Clearwa	iter, F	il i					
16. El	DUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONA	L REGISTR	RATION (STATE AND DISCI	IPLINE)				
	B.S. Aviation Sciences, Lyn Unive	rsity							
	MBA, Florida Atlantic Universit	у							
18. O	THER PROFESSIONAL QUALIFICATIONS (Publications, Organizatio	ns, Training, Awards, etc.)							
	(1) TITLE AND LOCATION (City and State)	17. RELEVANT PROJECTS		(2) YEAR C	COMPLETED				
	Development, Implementation, & Maintenance	e of the Florida Aviation Database,	P	ROFESSIONAL SERVICES	CONSTRUCTION (if applicable)				
	Tallahassee, FL			2004 Continuing					
а	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECII	TC ROLE	X C	X Check if project performed with current firm					
u.	Ms. Mainardi served as the project manager we	orking with the client, as well as the FAA to de	efine har	dware/software requ	uirements, data				
	standards, data collection methods, developme	nt, system training, and maintenance. This p	oroject al	so required the define	nition and programming				
	of a customized grant management system, an	aviation inspection and licensing module, an	d a flexil	ole contact manager	ment module with an				
	(1) TITLE AND LOCATION (City and State)	\$1,800,000		(2) YFAR (COMPLETED				
		P	ROFESSIONAL SERVICES	CONSTRUCTION (if applicable)					
	Automated Joint Participation Agreement Bi		2008 Continuing						
h	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI	хC	heck if project performed wit	h current firm					
2.	Ms. Mainardi served as the client manager, wor	king with the Florida DOT and Public Transpo	ortation (Office to define nece	essary components of				
	each agency to create a uniformed process of s	haring, analyzing, and storing data. Ms. Mair	nardi ide	ntified new applicati	ions to be designed,				
	managed flow of information, and set standards	for training and maintenance. Project Cost	t: \$ 140,	000					
	(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED								
	Customization and Implementation of Trans	CIP (BlackCat Grant Management System)	P	ROFESSIONAL SERVICES	CONSTRUCTION (if applicable)				
	Tampa/Ft. Lauderdale, FL			2008 Continuing					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI	TIC ROLE	X Ch	neck if project performed with	n current firm				
с.	TransCIP is an implementation of the BlackCat Grant Management System for the Florida DOT and the transit industry managing all federal and								
	state transit grants statewide. Ms. Mainardi serv	ed as the client manager, overseeing the cor	nmunica	ation of client require	ements to the project				
	management and design learns to ensure the s	act Cost: \$1 200 0	no coordinated training						
_	(1) TITLE AND LOCATION (City and State)		P	(2) YEAR (ROFESSIONAL SERVICES	COMPLETED CONSTRUCTION (if applicable)				
	Rail / Highway Crossing Inventory System (BlackCat Rail Data Management System)		2011 Continuing					
		5 5 7	4						
d.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECII	ic Role Rulei Contone for the Floride Department of T	х С	heck if project performed wit	h current firm				
	inventory equipment operations, and safety data for the more than 1/ 000 at grade rail crossings in the State of Florida. The system								
	with the Federal Rail Administration and allows	execute	d and completed at	each crossing Project					
	Cost \$250,000								
	(1) TITLE AND LOCATION (City and State)		2						
			P	RUFESSIONAL SERVICES					
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI	TIC ROLE		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. N/	12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE a. TOTAL b. WITH CURRENT FIRM								
	Chase C. Stockon	President /	Principal In Charge	25	20				
15. Fl	RM NAME AND LOCATION (City and State)								
16 FI	Panther I	<u>nternational, l</u>	LC, Clearwater,	Florida	DIME)				
10. LL	MBA International Transportation	on	17. CORRENT FROI ESSIONAL RE	LOISTRATION (STATE AND DISCI	r LIINL)				
	B.S. International Business								
18. 0	THER PROFESSIONAL QUALIFICATIONS (Publications, Organizatio	ns, Training, Awards, etc.)							
Lea Flo	adership Tampa, Leadership Tampa Bay, Leader rida Airports Council - Corporate Eagle Award (2- dia Wright III Leadership Award 2007	ship Florida -Time Recipient)							
Par	ke wright in Leadership Award, 2007	19. RELEVAN	NT PROJECTS						
	(1) TITLE AND LOCATION (City and State)			(2) YEAR C PROFESSIONAL SERVICES	COMPLETED CONSTRUCTION (if applicable)				
	Development, Implementation, & Maintenanco Anchorage, AK	e of the Alaska Aviati	ion System Plan,	2009 Continuing 2013 Reselected					
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI	FIC ROLE		X Check if project performed wit	h current firm				
	Mr. Stockon served as the senior project manag	er and principal in cha	rge, working with the clien	t to define the concept, h	ardware/software				
	components such as GIS and CAD were created	I, along with solutions i	to manage planning proce	sses and analysis. Proj e	ect Cost \$300,000 (2009)				
	and \$300,000 (2013 est)	-							
	Customization Implementation & Maintena	nce of the Airport Imr	provement Program	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)				
	Port Authority New York & New Jersey		siovement i rogium,	2000-2006					
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI	FIC ROLE		X Check if project performed wit	h current firm				
	Mr. Stockon served as senior project manager and principal in charge, working with the FAA are of Panther's BlackCat Grant Management System. Mr. Stockon defined custom application red		d Port Authority to custon uirements, implementatio	nize an implementation n schedules, training,					
	(1) THE AND LOCATION (City and state)	e of the Florida Aviat	tion Database	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)				
	Tallahassee, Florida			2004 Continuing					
C.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI Mr. Stockon served as senior project manager :	-IC ROLE and senior analyst wor	king with the client as wel	x Check if project performed wit	h current firm rdware/software				
	requirements, data standards, data collection m	ethods, development,	system training and maint	enance. This project also	o required the definition				
	and programming of a customized grant manag	ement system, an avia	ation inspection and licensi	ing module, and a flexible	e contact management				
	(1) TITLE AND LOCATION (City and State)	o of the Digital Card		(2) YEAR C PROFESSIONAL SERVICES	COMPLETED CONSTRUCTION (if applicable)				
	Tracking System, San Juan, Puerto Rico	e of the Digital Capit	ai improvement	2005-2009					
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI	FIC ROLE		Check if project performed v	vith current firm				
	Mr. Stockon served as senior project manager and principal in charge, working with the client t Panther's BlackCat Grant Management System Mr. Stockon defined design development sci		edule, programming regu	lirements, and training					
process. Application requirements were defined to interface with existing FAA and Oracle systems. Project Cost \$250,000				000					
	(1) TITLE AND LOCATION (City and State)			(2) YEAR C	COMPLETED				
				PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)				
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI	-IC ROLE		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. N/	AME	13. ROLE IN THIS CONTRAC	T	14. YEA	
J. Scott Entin Vice President / Implementation Manager		a. TOTAL 25	8		
15. Fl	RM NAME AND LOCATION (City and State)				
	Panther I	<u>nternational, l</u>	LLC, Clearwater, I	Florida	
16. EI	DUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT PROFESSIONAL RE	GISTRATION (STATE AND DISC	CIPLINE)
	B.S. Psychology and Philosophy, University	of Texas, Austin			
18. 0 ⁻ Lea	THER PROFESSIONAL QUALIFICATIONS (Publications, Organization adership Tampa	ns, Training, Awards, etc.)			
		19. RELEVA	NT PROJECTS		
	(1) THE AND LOCATION (City and State)	o of Saracota Dradou	aton International	(2) YEAR PROFESSIONAL SERVICES	COMPLETED CONSTRUCTION (if applicable)
	Airport Website, Sarasota, Florida		nton international	2007 Continuing	
а	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI	FIC ROLE	en al de la collection de Cara de	X Check if project performed w	ith current firm
а. 	Mr. Entin served as senior project manager and applications/components to be developed, data required new branding and design, Section 508 comment form, e-signup for their newsletter, Er Project Cost: \$75,000	a senior analyst workir a standards, data colle 3 ADA Compliance, Fli mergency Alert Notifica	ng with the client to define c ction methods, system trair ght Information Display (FII ation component, and a full	lesign specs, hardware, hing and maintenance o Ds), OAG integrated "Fl -site customized Conter	software requirements, ptions. This project ight Planner", a consumer nt Management System
	(1) TITLE AND LOCATION (City and State)			(2) YEAR PROFESSIONAL SERVICES	COMPLETED CONSTRUCTION (if applicable)
	Customization and Implementation of Trans Tampa/Ft. Lauderdale, FL	CIP (BlackCat Grant	Management System)	2008 Continuing	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECII Mr. Entin served as senior implementation and hardware/software requirements, data standard the complete implementation of a transportation system include all of the transit agencies statew () TITLE AND LOCATION (City and State)	FIC ROLE product manager work ls, data collection meth grant management s vide as well as the DO	king with the client, as well a nods, development, system ystem for use in managing T district and central office	x Check if project performed w as the FTA and FDOT t training, and maintena federal and state transi staff. Project cost: \$1 , (2) VEAR	ith current firm o define nce. This project included t projects. Users of the 200,000
	Customization and Implementation of SeaCl	P (BlackCat Grant M	anagement	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	System), Tallahassee, FL		anagement	2006 Continuing	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		X Check if project performed w	ith current firm	
C.	Mr. Entin served as senior product manager wo be developed; data standards, collection, and n required the customization of the BlackCat Gran management system, and importation of historic	rking with the client to nanagement methods; nt Management syster cal archives for Florida	define hardware/software i interfacing capabilities; sys n to include an Emergency a's 14 deepwater seaports.	requirements; necessar stem training; and main Alert Notification applic Project Cost: \$440,00	y application designs to tenance. This project ation, customized contact D
	(1) TITLE AND LOCATION (City and State)			(2) YEAR	
	BlackCat Grant Management System Impler	nentation – Tennesso	ee Aeronautics	2012 Continuing	
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI	FIC ROLE		X Check if project performed v	vith current firm
	Mr. Entin, as Implementation Lead, has overse Tennessee's Aeronautics bureau. Tennessee is grant funds. The system manages the entire life Cost \$240,000	en the implementation s an FAA identified blc ecycle of every grant fi	of the BlackCat Grant Mar ock grant state therefore the rom ACIP planning, to alloc	agement System for the system handles all States attached by the system handles all States attached by the system of the system	e entire State of ite and Federal aviation ing and closeout. Project
	(1) TITLE AND LOCATION (City and State)			(2) YEAR PROFESSIONAL SERVICES	COMPLETED CONSTRUCTION (if applicable)
	BlackCat Grant Management System Impler Massachusetts, and Alaska	nentations – Transit/	Multimodal: Ohio,	2012 Continuing	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECI	FIC ROLE		x Check if project performed w	ith current firm
	Mr. Entin, as Implementation Lead, has overse systems in Ohio, Massachusetts, and Alaska. E while still retaining federal pass-through require	en the implementation Each of these impleme ements. Project Cost	of the BlackCat Grant Mar entations require matching t \$400,000 each	nagement System for th he grant system to state	e Transit/Multimodal e laws and regulations

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE QUALIFICATIONS FOR THIS CONTR (Present as many projects as requested by the agency, or 10 p Complete one Section F for each project.	20. EXAMPLE PROJECT KEY NUMBER		
21. TITLE AND LOCATION (<i>City and State</i>) Digital Capital Improvement Tracking System (DCIT)	22. YEAR COMPLETED		
San Juan, Puerto Rico	2005-2012		
23 PROJECT OWNER'S INFORMATION			

a. PROJECT OWNER b. POINT OF CONTACT NAME Puerto Rico Ports Authority Ibsen Santiago Federal Funds Co	c. POINT OF CONTACT TELEPHONE NUMBER (787) 729-8836
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Description:

The Digital Capital Improvement Tracking (DCIT) system is a web-based capital improvement grant tracking system developed for the Puerto Rico Ports Authority to manage their Federal Grants. Panther is responsible for all design, development, programming, integration with existing FAA and internal Oracle systems, and user training for the DCIT system.

DCIT provides a complete grant management system that manages the entire life cycle of a project including CIP development, board approval, federal pre-application and application, grant award, contract solicitation and award, contractor invoicing, DBE monitoring, reimbursement / drawdown, amendments, and grant closeout. The DCIT also interfaces with JACIP so the Orlando Airports District Office (ADO) can review and manage the projects as well. An update to manage PFC's is currently planned.

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lager					
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Tite	Grant No.	Other Date	Grant States	Contract Status	Date Created
Juarbe					
Beconstruct and Excernit Terminal Apton	3-72-0002-06-03		Pending Closeout Sync	Anardes	7/25/2508
Barrara Determine	452-3453-35-45	7/24/2006	Under Grant.	Ancesteit Essires	10/11/2907
Rodriguez		_	-		_
Incriove Rumany Safety Areas - Rolly 9 & 27	17.72.0058-1405		Re Applicates Filed		12/14/2006
arin International					
Pavement and Radio	2567436	7/0/2896	Pending Cinerout Sync	Dated	6/14/2506
Reconstruction RW 10-25 Phase (3-72-0016-45-2004	8000094	Grant Offered		2/1/2006
Security Enteriorments, These I	3-72-0016-38-02		No Applicates Filed		1/29/2306
Prepare plans & speca for Reconstruction Rwo 10/20	3-72-0016-35-03	6/19/0003	Expired		6/14/2006
Construct, Nerk & Light (MTL) TWY (RWY (2-20) &	3-72-6012-13-64		No Application Filed		2/1/2306
orts Authority					
Conduct Start Arport System Pan Starty	3-72-006-02-04		Pending Closeoul Sync		7/25/2006
Develop Capital Improvement Program Tracking	1.72.000.03.04		No. Application Plant		1/29/2106
Arport Master Plan for Roose of Roads	3.72-0000-01-04		No Application Filed		2/10506
IFC To Cover Last of Projects	MC 00-04-C-00-S/U		No Application Filed		2/1/2506
			State of the state		and the second second
	ERTORICO Control Co	ERTORICO CONTRACT AND ADDRESS CONTRACTOR ADDRESS CO	EXCEPT CONTRACT AND CONTRA	Control C	Control C

a.	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) ROLE
	Panther International, LLC	Clearwater, Florida	Sub-Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE I QUALIFICATIONS FOR THIS CONTRA (Present as many projects as requested by the agency, or 10 pi Complete one Section F for each project.	20. EXAMPLE PROJECT KEY NUMBER		
21. TITLE AND LOCATION (City and State) Florida Aviation Database Tallahassee, Florida	22. YEAR CC PROFESSIONAL SERVICES 2007 - 2014	MPLETED CONSTRUCTION (If applicable)	
23. PROJECT OWNER'S INFORMATION			

23. PROJECT OWNER 3 INFORMATION

Florida Department of Transportation Aaron Smith P.E., (850)	
Aviation Systems and Support Office State Aviation Manager	0) 414-4500

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

Description:

The Florida Aviation Database (FAD) is a comprehensive, online aviation database and application system that allows those that need and use aviation information to access it in an efficient and up-to-date manner. It provides an effective method of collecting, storing, retrieving, accessing, analyzing, and reporting in a digital format. Applications and data residing in the FAD include Contact Management, Airport Inspection & Licensing, Joint Automated Capital Improvement Program (JACIP) and the Facility Information Directory.

Highlights:

FAD's "Contact Manager Module with its Emergency Notification Overlay" was used by the Florida Department of Transportation (FDOT) in coordination with the Federal Aviation Administration (FAA) and Florida Department of Law Enforcement (FDLE) to immediately close all of Florida's airports following the events of Sept 11. "People are talking about the terrific program we have that let us produce a broadcast notification to so many airports than a few seconds!" FDOT Aviation Office (September 12, 2001)



FAD's Joint Automated Capital Improvement Program (JACIP) is a grant management system that allows the State of Florida and the FAA to better coordinate and manage their aviation grants. The accurate and dynamic listing of aviation needs has increased the federal grants to the state's airports.

Florida Aviation Inspection and Licensing – Every public airport in Florida is inspected and licensed by the State utilizing the inspection and licensing application in FAD. Other online applications of the FAD utilize the inspection data to update not only the license, but the Facility Information Directory, the published airport directory, mailing lists, system plans, and the National Flight Data Center.

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Panther International, LLC	Clearwater, Florida	Sub-Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE QUALIFICATIONS FOR THIS CONTRA (Present as many projects as requested by the agency, or 10 p. Complete one Section F for each project.	20. EXAMPLE PROJECT KEY NUMBER		
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED		
Sarasota Bradenton International Airport Sarasota, Florida	PROFESSIONAL SERVICES 2006-2014	CONSTRUCTION (If applicable)	
23. PROJECT OWNER'S INFORMATION			

a. PROJECT OWNER Sarasota Manatee Airport Authority	b. POINT OF CONTACT NAME Fredrick J. Piccolo, A.A.E. President / CEO	c. POINT OF CONTACT TELEPHONE NUMBER 941-359-2770
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SARASOTA BRADENTON

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

Description:

The Sarasota Manatee Airport Authority requested a new state-of-the-art website be designed and developed to provide the traveling public with a clean new look and consumer-friendly navigation making pertinent information easy to find when traveling to and from Sarasota Bradenton International Airport (SRQ).

The site is fully Section 508 ADA Compliant and consists of many features including an up to the minute Flight Information Display (FIDs) on the home page for travelers checking on current flights and an OAG integrated "Flight Planner" that allows future travelers to explore available airline flights and connections to anywhere in the world. There is easy access airline information for departing and arriving flights, map and directions to SRQ, a consumer comment form, e-signup for the quarterly Beacon Newsletter, and many additional features.

The site content is managed routinely by Authority staff members utilizing a fully implemented, easy-to-use Content Management System. This system allows staff members to change content on any page within the site, upload documents such as press releases and newsletters, and to immediately post Emergency Alerts on the home page in the case of an urgent event.

sro Flight Information Alert Notices New Screening Procedures August 4, 2007 🔌 Arrivals 🔽 🤜 Departures 🔽 Beginning this Saturday, August 4, 2007... TSA recomendations on Safety Section 2015 Section 201 10:07 P 10:07 P On Time 10:43 P 10:43 P On Time DL175 more alerts > Planning a Trip Soon? Visit Flight Planner 国 **Airport News** August 13, 2007 American Eagle Launches Welcome to SRO Sarasota Bradenton International serves over one million passengers a year as a gateway to the s Gulf coast of Florida. Major domestic and commuter airlines provide daily scheduled service, as do international and domestic charter carriers. Our user-friendly terminal and attractively maintained surroundings exemplify the best of Florida, offer comfortable, secure and stress-free atmosphere. Airline ticketing, baggage claim, and other services steps away from the main concourse and the commuter gates. Both the short and long-term parking lo August 24, 2007 Student Art Exhibition - If you would like to submit your work in our annual contest. please download the 2007 SRQ Student Artwork Contest Application and follow the directions as comfortable, secure and stress steps away from the main cond adiacent to the main terminal. Whether you are arriving or departing for pleasure, business, or both, thank you for choosing us and fol **Current Conditions** Quick Links more news Partly Cloudy Temp: 84° F Wind: 15 MPH NW Humidity: 60% Employment | Lost & Found | Parkin Links to Airlines ¥ The Beacon Ne Local Links Local Time 4:37 PM, Wed 10 Oct, 2007 ¥ Take advantage of <u>30 minutes FREE parking</u> in the Short Term Lot to pick up your passenger Conveniently located in front of the Terminal so you can greet them inside in air conditioned comfort.

Home Site Map Contact Us Se

Not only does the website provide travel information to consumers, it offers easy to navigate selections such as Top Twenty Destinations and links to tourism related sites in Manatee and Sarasota Counties. In addition, the site offers information for the airlines, airport tenants, and employees including job opportunities, airport rates and fees, and general aviation information.

a.	(1) FIRM NAME	(2) FIRM LOCATION (<i>City and State</i>)	(3) ROLE
	Panther International, LLC	Clearwater, Florida	Sub-Consultant

	G. KEY PERSON	INEL PA	RTICIPA	TION IN	EXAMP	LE PRO	JECTS				
26. NAMES OF KEY PERSONNEL (From Section E,	27. ROLE IN THIS CONTRACT (From Section E,	(Fill i	n "Examp under p	28. EXA ble Proje project ke	MPLE Pl cts Key" ey numbe	ROJECT section b er for par	S LISTE below be ticipatior	D IN SE fore com n in same	CTION F pleting ta e or simil	: able. Pla ar role.)	ce "X"
Block 12)	Block 13)	1	2	3	4	5	6	7	8	9	10
Chase C. Stockon	Project Director	x	х								
Rebecca Mainardi	Project Manager	х									
J. Scott Entin	Project Manager			x							

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Florida Aviation Database Tallahassee, FL	6	
2	Digital Capital Improvement Tracking Program (DCIT) San Juan, Puerto Rico	7	
3	Sarasota Bradenton International Airport Sarasota, FL	8	
4		9	
5		10	

STANDARD FORM 330 (6/2004) PAGE 4

	ARCHITECT – ENGINI	EER QUAL	IFIC	ATION	IS		1. SOLICITATION NUMBE	R (if any)	
		PART	ll – Gl	ENERAI	L QUALIF	ICATIONS			
	(If a firm has	s branch office:	s, com	plete for	each speci	fic branch offi	ce seeking work.)		
2a. FIRM (OR E	BRANCH OFFICE) NAME						3. YEAR ESTABLISHED	4. DUNS	NUMBER
Pant	<u>her International, LL</u>	C					1994		
2b. STREET							a. TYPE	5. OWNERSHIP	
2841 Ex	ecutive Drive, Second Floor							LLC	
2c. CITY			1	2d. STATE	2e.	ZIP CODE	b. SMALL BUSINESS STATUS		
				۴L		33762		k Ja ia a branch affi	22)
oa. PUINT UF							7. NAME OF FIRM (II DIOC	k za is a drahch oh	Le)
Chase C	C. Stockon, President / CEO								
6b. TELEPHON	NE NUMBER	6c. E-MAIL ADD	RESS						
727-556	-0990 x1010	Chas	se@P	antherIn	iternationa	al.com			
	8a. FORMER FIR	M NAME(S) (if any	y)				8b. YEAR ESTABLISHED	8c. DUN	S NUMBER
							1994		
	9. EMPLOYEES BY DISCIPLINE					ANI	10. Profile of firm's exp NUAL AVERAGE REVENUE F	PERIENCE AND OR LAST 5 YEARS	
a. Function Code	b. Discipline	C. No. of	Employe	ees	a. Profile Code		b. Experience		c. Revenue Index Number
02	Administrative	3	(2) D	INANGH	N/A	Transport	ation Grant Management S	ervices	(see below) 5
48	Project Manager	4			N/A	Other Tec	hnical Services		4
58	Technician/Analyst	2							
14	Geographic Information System	4	-						
29	Specialist	1							
			-						
	Tota	1							
	SERVICES REVENUES OF FIRM				PROFE	SSIONAL SERVI	CES REVENUE INDEX NUME	BER	
	(Insert revenue index number shown at right)	1. Less than \$1 2. \$100.000 to	100,000 Jess thai	n \$250.000			 \$2 million to less t \$5 million to less t 	han \$5 million han \$10 million	
a. Federal Wo	ork 1	3. \$250,000 to	less that	n \$500,000			8. \$10 million to less	than \$25 million	
b. Non-Federa	al Work 5	4. \$500,000 to	less that	n \$1 million n \$2 million			9. \$25 million to less	than \$50 million Iter	
c. Total Worl	K 6	5. 91 million to			REDRESENT				
a SIGNATURF	:		The for	regoing is a	statement of f	acts.		b DATE	
Ch	and Stackon							1/	14/2014
c. NAME AND	TITLE								
Chase	C. Stockon, President / CEO								

	E. RESUMES OF KI	EY PERSONNEL	PROPOSED FO				
12				erson.)	1		
IZ.	Cobino Cuevos D.E. LEED AD	13. RULE IN T	Appager (LE	D AD (Project	a. TOTAL		b. WITH CURRENT FIRM
	Gabino Cuevas, P.E., LEED-AP	SI. Project I		D-APJ / Project	25		11
15	15 EIDM NAME AND LOCATION (City and State)						
ro.	Prevence Enterprises Inc. Miami Lakes El						
16			17 CURRENT	PROFESSIONAL REGISTRAT	rion /s		
M	aster of Business Administration		Florida Prof	fessional Engineer (PF#	4253	() ()	
Ra	chelor of Science in Chemical Engineering		Georgia Pr	ofessional Engineer (PE	:#030	271)	
00			Elorida J FE			2,1,	
10	OTHED DOGESSIONAL OUALIEICATIONS (Publications Organ	izations Training	Internet atc.)	D AI (17052)			
Na	ational Society of Professional Engineers: Nation	al Groundwa	ter Associatio	on: US Green Building (Counc	II. OSHA	A 40 Hour
н	VZWOPER OSHA & Hour: Bio-remediation Engine	ar Groundwa	hon		Joune	, 0511/	(to flour
	2 WOT ER, OSHA 6 Hour, Die Temediation Engine						
	(1) TITLE AND LOCATION (City and State)	17. KELLVAN	TTROJECTS	(2) YEA	AR COM	PLETED	
	Miami-Dade County, DERM E03 DERM-01, Gro	undwater, Su	urface	PROFESSIONAL SERVICES		CONSTRU	CTION (If applicable)
	Water & Soil Contamination Cleanup Services.	Miami-Dade	. Florida	2009			
	· · · · · · · · · · · · · · · · · · ·						
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC	ROLE		Check if project performed	d with cu	urrent firm	
	Role. Project Principal, Cost. \$1,500,000.00, Br	d related too	e. CEI leceive	eu assigninents nom D		ion ron	
	environmental investigations/renabilitation and	iu relateu tas	ks, perioritis		lillCdl	ion, rep	all, leilioval,
	replacement, installation, and/or abandonmer	it of any und	erground/ab	oveground storage syst	tems;	periori	n services as
	design professionals; and, perform environmen	ntal work neo	cessary for th	e prevention of contar	ninati	on.	
	(i) THE AND LOCATION (City and State) Miami-Dade County, DERM EQ4 DERM-01, PSA	for Groundy	vator	PROFESSIONAL SERVICES		CONSTRU	CTION (If applicable)
	Surface Water & Soil Contamination Cleanup S		ni Elorida	2009			
	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE						
b.	Role: Project Principal: Cost: \$1.050.000.00: Br	ief Scope/Siz	e: CEI receive	ed assignments from D	ERM t	to perfo	rm 16
	projects relating to design and permitting of la	ndfill gas coll	ection syster	n; installation of Odor	Contr	, ol Misti	ng System;
	removal of 2 single-wall 10.000 gallon USTs and	d installation	, of new doub) ole-wall USTs: Jet-A fue	l line	remova	land
	assessment: and, other environmental services	S.					
	(1) TITLE AND LOCATION (City and State)	-		(2) YEA	AR COM	PLETED	
	Miami-Dade County, DERM E08 DERM-01, PSA	for Environr	nental	PROFESSIONAL SERVICES		CONSTRU	CTION (If applicable)
	Cleanup, Compliance and Related Services, Mia	ami-Dade Co	unty, FL	2010			
	(3) BRIEF DESCRIPTION (Brief score size cost etc.) AND SPECIFIC			Check if project performed	d with cu	urrent firm	
C.	Role: Project Principal: Cost: contract maximur	n allowed-\$3	.000.000.00.	Scope/Size: Provided (Groun	idwater	. surface
	water, and soil contamination cleanup services	and constru	iction service	es for various municina	lager	ncies in	Miami-Dade
	County. As of today. CEI has completed more	than 16 proje	ects under th	e above contract. CEI's	nerf	ormanc	e was
	exemplary resulting in the awarding of the suc	cession cont	ract (F09-DFF	RM-01) for an additiona	al thre	e (3) ve	er period
	(1) TITLE AND LOCATION (City and State)			(2) YEA	AR COM	PLETED	
	Coca-Cola Enterprises, Inc., Brevard County, C	ocoa, Florida		PROFESSIONAL SERVICES		CONSTRU	CTION (If applicable)
				2007			
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC	ROLE		□ I Check if project performed	d with cu	urrent firm	
	Role: Project Principal; Cost: \$340,000.00.	Scope/Size:	Took over do	prmant and inactive pe	troleu	im cleai	hup site.
	Conducted complete Supplemental Site Assess	ment and en	gineering rev	view of existing treatme	ent sy	vstem. D	Determined
	existing groundwater treatment system was un	nsalvageable	. Designed ne	ew air sparging and soil	vapo	r extrac	tion system.
	(1) ITLE AND LOCATION (City and State)	lization Truct		(2) YEA	AR COM		CTION (If applicable)
	City of Miami / Liberty City Community Revita	ization trust	(LCT),	2010		CONSTRU	
Δ	BIOWITTERIA ASSESSIFIENT & CLEANUP, IVITAMI, FIOR			Check if project performed	d with c	urrent firm	
υ.	Role: Project Principal: Cost: \$500.000.00 Scor	be/Size: Maxi	mized grant	monies for the City of I	Miam	i's I CT f	or assessment
	and remediation for targeted Brownfield redev	velopment		the only of the only of t			e. accessment
	and remediation for targeted brownied redet	copinenti					

	E. RESUMES OF K	EY PERSONNEL P	ROPOSED FOI	R THIS CONTRACT		
12.	NAME	13. ROLE IN THIS	S CONTRACT		14. Y	EARS EXPERIENCE
	Amanuel Worku, P.E.	Contract Mar	nager / Sr. F	Project Manager	a. TOTAL	b. WITH CURRENT FIRM
15.	FIRM NAME AND LOCATION (City and State)				14	11
	Cherokee Enterprises, Inc., Miami Lakes, I	FL				
16.	EDUCATION (DEGREE AND SPECIALIZATION)		17. CURRENT	PROFESSIONAL REGISTRAT	ION (STATE	E AND DISCIPLINE)
Ba	chelor of Science in Environmental Engineering		Florida Prof	essional Engineer (PE#	61885)	
10		elections. Technics. Au				
18. El	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organ	nizations, Training, Awa	aras, eic.) n: America	n Society of Civil Engin	oors: Nat	tional
Gr	roundwater Association: OSHA 40 Hour HA7WOR		ni, America	v Corn- Contractor Ma	inageme	nt
0.		19. RELEVANT	PROJECTS		inageme	
	(1) TITLE AND LOCATION (City and State)			(2) YEA	R COMPLE	TED
	US Department of Homeland Security / Federa	al Law Enforcen	nent	PROFESSIONAL SERVICES	CON	ISTRUCTION (If applicable)
	Training Center (FLETC), Environmental Remed	diation		2006		
•	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC	CROLE		□ I Check if project performed	d with currer	nt firm
a.	Role: Sr.Project Manager; Cost: \$3,400,000.00	. Scope/Size: Le	ead assessn	nent and abatement pr	oject at	4 firing ranges.
	Project involved preliminary lead assessment t	to delineate ho	rizontal and	d vertical extent of lead	l-impact	ed soil. Then
	excavated impacted soils, sifted the soil for lar	ger lead partic	les, and the	n treated it with an ad	ditive to	bind remaining
	lead and prevent leachate characterized as haz	zardous - result	ting in a sav	vings of millions of dolla	ars to the	e federal
	government.					
	(1) TITLE AND LOCATION (City and State)			(2) YEA	R COMPLE	
	Miami-Dade County, DERM E04 DERM-01, ENV	rironmental Cle	eanup,	2009	CON	
	(3) BRIEF DESCRIPTION (Related Services, IVIIami-Dade	County, Florid	la	Check if project performed	with currer	at firm
b.	Role: Sr. Project Manager: Cost: \$1.050.000.00): Brief Scope/S	Size: CEI rec	eived assignments fror	n DERM	to perform 16
	projects relating to design and permitting of la	indfill gas colle	ction syster	n; installation of Odor	Control N	Visting System;
	removal of 2 single-wall 10,000 gallon USTs an	d installation o	, of new doub) le-wall USTs; Jet-A fue	l line ren	noval and
	assessment; and, other environmental services	s.				
	(1) TITLE AND LOCATION (City and State)			(2) YEA	R COMPLE	TED
	Miami-Dade County, DERM E08 DERM-01, PSA	for Environme	ental	PROFESSIONAL SERVICES	CON	ISTRUCTION (If applicable)
	Cleanup, Compliance and Related Services, Mi	ami, Florida				A Course
C.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC Role: Sr. Project Manager: Cost: contract maxim	RULE	\$3 000 000	OQ Scope/Size: Provid	ad Group	ntiirm ndwater surface
	water and soil contamination cleanup services	s and construct	tion service	es for various municina	l agencie	in Miami-Dade
	County As of today. CEI has completed more	than 16 project	ts under the	e above contract. CEI's	nerform	nance was
	exemplary resulting in the awarding of the suc	cession contra	ct (E09-DER	M-01) for an additiona	al three (3) year period.
	(1) TITLE AND LOCATION (City and State)			(2) YEA	R COMPLE	TED
	Coca-Cola Enterprises, Inc., Brevard County, C	ocoa, Florida		PROFESSIONAL SERVICES	CON	ISTRUCTION (If applicable)
	(2) PDIEE DESCRIPTION (Priof scope, size, cast atc.) AND SDECIEIO			2007	with curror	at firm
d.	Role: Sr. Project Manager: Cost: \$340,000,00	Scone/Size	Took over (formant and inactive n	etroleun	n cleanun site
	Conducted complete Supplemental Site Assess	sment and engi	ineering rev	view of existing treatme	ent syste	m Determined
	existing groundwater treatment system was up	nsalvageable [Designed ne	w air snarging and soil	vanor e	xtraction system
	(1) TITLE AND LOCATION (City and State)			(2) YEA	R COMPLE	TED
	US Department of Homeland Security / Federa	al Law Enforcen	nent	PROFESSIONAL SERVICES	CON	ISTRUCTION (If applicable)
	Training Center (FLETC), Mold Remediation			2010		
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC	ROLE		Check if project performed	d with currer	nt firm
	Role: Project Principal / Sr. Project Manager; C	ost: \$194,000.	UU. CEI prov	vided the necessary ma	inageme	nt, quality
	control, labor, materials, and equipment for al	batement of m	old from Bu	ulding at Bldg 46.		

	E. RESUMES OF KE	EY PERSONNEL PRO	OPOSED FO	R THIS CONTRACT		
12	(Comp		CONTRACT	rson.)		<u>^</u>
12.		Asst Contract		/ Sr. Technical	a. TOTAL b. WITH CURRENT F	FIRM
	Jen Northup, P.G.	Asst. Contract i	wanager		28 8	
15	EIDM NAME AND LOCATION (City and State)	Advisor				
15.	Cherokee Enterprises Inc Miami Lakes F	-				
16.	EDUCATION (DEGREE AND SPECIALIZATION)	17.	. CURRENT	PROFESSIONAL REGISTRAT	ION (STATE AND DISCIPLINE)	
Ba	chelor of Science in Chemistry	Flo	orida, Pro	fessional Geologist (PG	#1717)	
	,	Ge	eorgia. Pr	ofessional Geologist (P	, G#1998)	
		Ke	entucky. P	Professional Geologist (PG#2136)	
		Flo	orida. Pol	lutant Storage System (Cont. (PCC1256800)	
		Ce	ertified Ha	azardous Materials Mar	nager (#1575)	
					10801 (112070)	
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organ	izations, Training, Award	ls, etc.)			
Ar	nerican Institute of Professional Geologists; OSH	A 40 Hour HAZW	VOPER, O	SHA 8 Hour; FDEP Field	Sampling Courses	
		19. RELEVANT PR	ROJECTS			
	(I) ITLE AND LOCATION (City and State)	wide Contamin	ation	(2) YEA	CONSTRUCTION (If appli	cable)
	Assessment & Remediation Services		ation	On-going, various site	S	,
	Assessment & Remediation Services					
а.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC	ROLE		□ I Check if project performed	I with current firm	
	Role: Sr. Technical Advisor; Cost: \$294,263.86;	Scope/Size: On-	going role	e to provide miscellane	ous consulting work to	r
	various DUT sites as a sub-consultant to Nova (consulting. Cons	ulting wo	rk entails: investigatior	is, sampling, the review	N OT
	drawings/plans and memorandums for FDOT.			(2) \/[A		
	Miami-Dade County DERM FOR DERM-01 PSA	for Environmen	Ital	PROFESSIONAL SERVICES	CONSTRUCTION (If appli	cable)
	Cleanup Compliance and Related Services Mia	ami-Dade County	v	2010		,
	Florida		y,			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC	ROLE		Check if project performed	Levelah and the second second	
					i with current firm	
b.	Role: Sr. Scientist / Sr. Technical Advisor; Cost:	contract maximi	um allow	ed-\$3,000,000.00. Scop	e/Size: Provided	
b.	Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir	contract maximination cleanup se	um allow ervices, a	ed-\$3,000,000.00. Scop nd construction service	e/Size: Provided s for various municipal	I
b.	Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, C	contract maximunation cleanup se CEI has complete	um allow ervices, a ed more tl	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t	e/Size: Provided s for various municipal he above contract. CE	l T's
b.	Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av	contract maximu nation cleanup se CEI has complete warding of the su	um allow ervices, a ed more tl uccession	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0	s for various municipal be/Size: Provided s for various municipal he above contract. CE 1) for an additional thr	l I's ee
b.	Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamin agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av (3) year period.	contract maximu nation cleanup se CEI has complete warding of the su	um allowe ervices, a ed more th uccession	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0	be/Size: Provided s for various municipal he above contract. CE 1) for an additional thr	l I's ee
b.	Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>)	contract maximu nation cleanup se CEI has complete warding of the su	um allow ervices, a ed more tl uccession	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA	Num current firm be/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED	l I's ee
b.	Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamin agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>) Broward County Aviation Dept. FLL/HWD Airpo	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car	um allowo ervices, a ed more tl uccession Rental	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES	Point current firm pe/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED CONSTRUCTION (If appli	l il's ee icable)
b.	 Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contaminagencies in Miami-Dade County. As of today, Coperformance was exemplary resulting in the average (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>) Broward County Aviation Dept. FLL/HWD Airpot Center Remediation, Broward County, Florida 	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car	um allowo ervices, a ed more tl uccession Rental	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES 2010	s for various municipal he above contract. CE 1) for an additional thr CONSTRUCTION (If appli	l ree cable)
b. 	Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>) Broward County Aviation Dept. FLL/HWD Airpo Center Remediation, Broward County, Florida (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Polo: Sr. Scientist / Sr. Tochnical Advisor: Cost:	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car	um allowe ervices, a ed more tl uccession Rental	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES 2010 □☑ Check if project performed Decformed site accord	I with current firm pe/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED CONSTRUCTION (If appli I with current firm	l ee cable)
b.	 Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>) Broward County Aviation Dept. FLL/HWD Airpor Center Remediation, Broward County, Florida (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Role: Sr. Scientist / Sr. Technical Advisor; Cost: produced an approved Site Assessment Report 	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car ROLE \$760,000.00. Sco	um allowe ervices, a ed more th uccession Rental	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES 2010 DM Check if project performed Performed site assessin tion_limited source rep	A completed with current firm be/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED CONSTRUCTION (If appli I with current firm ment activities and any sparging, soil	l il's ee cable)
b.	 Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, O performance was exemplary resulting in the av (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>) Broward County Aviation Dept. FLL/HWD Airpot Center Remediation, Broward County, Florida (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Role: Sr. Scientist / Sr. Technical Advisor; Cost: produced an approved Site Assessment Report 	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car ROLE \$760,000.00. Sco : (SAR); as well as	um allowe ervices, a ed more th accession Rental cope/Size: s- demoli	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES 2010 □⊠ Check if project performed Performed site assess tion, limited source ren	Nin current firm pe/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED CONSTRUCTION (If appli with current firm ment activities and noval, air sparging, soil	l I's ee cable)
b. с.	 Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>) Broward County Aviation Dept. FLL/HWD Airpot Center Remediation, Broward County, Florida (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Role: Sr. Scientist / Sr. Technical Advisor; Cost: produced an approved Site Assessment Report vapor extraction, ozone sparging remediation, reporting 	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car ROLE \$760,000.00. Sco : (SAR); as well as remedial action	um allowe ervices, a ed more th accession Rental cope/Size: s- demoli plan, inst	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES 2010 □⊠ Check if project performed Performed site assess tion, limited source ren callation of remediation	A with current firm be/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED CONSTRUCTION (If applied I with current firm ment activities and hoval, air sparging, soil system, and quarterly	l il's ee cable)
b. c.	Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>) Broward County Aviation Dept. FLL/HWD Airpo Center Remediation, Broward County, Florida (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Role: Sr. Scientist / Sr. Technical Advisor; Cost: produced an approved Site Assessment Report vapor extraction, ozone sparging remediation, reporting. (1) TITLE AND LOCATION (<i>City and State</i>)	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car ROLE \$760,000.00. Sco (SAR); as well as remedial action	um allowe ervices, a ed more th accession Rental cope/Size: s- demolit plan, inst	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES 2010 Check if project performed Performed site assess tion, limited source ren callation of remediation	I with current firm pe/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED CONSTRUCTION (If appli With current firm ment activities and noval, air sparging, soil system, and quarterly R COMPLETED	l il's ee cable)
b. c.	 Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>) Broward County Aviation Dept. FLL/HWD Airpot Center Remediation, Broward County, Florida (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Role: Sr. Scientist / Sr. Technical Advisor; Cost: produced an approved Site Assessment Report vapor extraction, ozone sparging remediation, reporting. (1) TITLE AND LOCATION (<i>City and State</i>) HDR Engineering / FLL HWD Airport Runway Ex 	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car ROLE \$760,000.00. Sco : (SAR); as well as remedial action	um allowo ervices, an ed more th uccession Rental cope/Size: s- demoli plan, inst	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES 2010 Check if project performed Performed site assess tion, limited source ren callation of remediation (2) YEA PROFESSIONAL SERVICES	I with current firm be/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED CONSTRUCTION (If appli hoval, air sparging, soil system, and quarterly R COMPLETED CONSTRUCTION (If appli	l il's ee cable)
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b. c. d.	 Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contaminagencies in Miami-Dade County. As of today, Coperformance was exemplary resulting in the average of the second s	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car \$760,000.00. Sc (SAR); as well as remedial action \$2000 \$2000,000,000 \$2000,0000,0	um allowe ervices, and ed more the accession Rental cope/Size: s- demoli plan, inst rd	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES 2010 Check if project performed Performed site assessi- tion, limited source ren callation of remediation (2) YEA PROFESSIONAL SERVICES 2010 Check if project performed Completed Phase II test	I with current firm pe/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED CONSTRUCTION (If appli noval, air sparging, soil a system, and quarterly R COMPLETED CONSTRUCTION (If appli CONSTRUCTION (If appli CONSTRUCTION (If appli CONSTRUCTION (If appli	l il's ee cable) cable)
b. c. d.	 Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>) Broward County Aviation Dept. FLL/HWD Airpot Center Remediation, Broward County, Florida (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Role: Sr. Scientist / Sr. Technical Advisor; Cost: produced an approved Site Assessment Report vapor extraction, ozone sparging remediation, reporting. (1) TITLE AND LOCATION (<i>City and State</i>) HDR Engineering / FLL HWD Airport Runway Ex County, Florida (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Role: Sr. Scientist / Sr. Technical Advisor; Cost: 	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car ROLE \$760,000.00. Sco (SAR); as well as remedial action cpansion, Browar ROLE \$35,194.29; Sco suspected landf	um allowe ervices, a ed more th accession Rental cope/Size: s- demoli plan, inst rd pe/Size: 0 fill excava	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES 2010 □ I Check if project performed reallation of remediation (2) YEA PROFESSIONAL SERVICES 2010 □ I Check if project performed 2010 □ I Check if project performed 2010	Invite current firm be/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED CONSTRUCTION (If applied I with current firm ment activities and noval, air sparging, soil system, and quarterly R COMPLETED CONSTRUCTION (If applied I with current firm in system, and quarterly R COMPLETED CONSTRUCTION (If applied I with current firm ing, site investigation was rmer NCR site.	l il's ee cable) cable) work
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b. c. d. e.	 Role: Sr. Scientist / Sr. Technical Advisor; Cost: Groundwater, surface water, and soil contamir agencies in Miami-Dade County. As of today, C performance was exemplary resulting in the av (3) year period. (1) TITLE AND LOCATION (<i>City and State</i>) Broward County Aviation Dept. FLL/HWD Airpot Center Remediation, Broward County, Florida (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Role: Sr. Scientist / Sr. Technical Advisor; Cost: produced an approved Site Assessment Report vapor extraction, ozone sparging remediation, reporting. (1) TITLE AND LOCATION (<i>City and State</i>) HDR Engineering / FLL HWD Airport Runway Ex County, Florida (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Role: Sr. Scientist / Sr. Technical Advisor; Cost: with associated reporting; and, cleared area of (1) TITLE AND LOCATION (<i>City and State</i>) Remediation of Former NCR Quick Turnaround Lauderdale/Hollywood International Airport (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC Role: Sr. Project Manager/Scientist; Cost: \$720 plume maps, prepared remedial action plans, p /vapor extraction remediation system. prepared 	contract maximu nation cleanup se CEI has complete warding of the su ort, National Car ROLE \$760,000.00. Sco (SAR); as well as remedial action cpansion, Browar ROLE \$35,194.29; Sco suspected landf Facility at the Fo ROLE 0,403.00. Scope/ performed const ed quarterly sam	um allowe ervices, and ed more the accession Rental cope/Size: s- demolifing plan, inst rd ope/Size: C fill excava ort (Size: Insta- cruction se opling and	ed-\$3,000,000.00. Scop nd construction service han 16 projects under t contract (E09-DERM-0 (2) YEA PROFESSIONAL SERVICES 2010 □ I Check if project performed rallation of remediation (2) YEA PROFESSIONAL SERVICES 2010 □ I Check if project performed completed Phase II test ted and remediated for (2) YEA PROFESSIONAL SERVICES 2010 □ I Check if project performed alled and sampled mon ervices for the installati reporting.	Invite current firm be/Size: Provided s for various municipal he above contract. CE 1) for an additional thr R COMPLETED CONSTRUCTION (If applied I with current firm ment activities and noval, air sparging, soil a system, and quarterly R COMPLETED CONSTRUCTION (If applied I with current firm ing, site investigation was remer NCR site. R COMPLETED CONSTRUCTION (If applied I with current firm ing, site investigation was remered I with current firm ing, site investigation was remered I with current firm itoring wells, prepared on of an air sparging	l il's ee cable) cable) work cable)

F. EXAMPLE PROJECTS	:	20. EXAMPLE PROJECT KEY NUMBER			
QUALIFI	1				
(Present as many projects as i	requested by the agency, or 1	0 projects, if not specified.			1
Complet	te one Section F for each proj	ect.)			
21. TITLE AND LOCATION (City and State)			22. YEAR C	COMPLETED	1
Phase II ESA Work for Various FLL/HWD Ir	nternational Airport	PROFESSIONAL SERVICES	CONST	TRUCTION (If	applicable)
Facilities- Airport Runway Expansion Rem	ediation, Fort	2010			
Lauderdale, Florida					
	23. PROJECT OWN	ER'S INFORMATION			
a. PROJECT OWNER	C. POINT OF CONTACT NAME	-	c. POINT OF (CONTACT TEI	LEPHONE NUMBER
HDR Engineering, Inc., Contract #	Mr. Anwar Kahn		(954) 647	7-4542	
RLI#20011017.0-AV-1	С.	Chuck.sinclair	@hdrinc.com		
21. TITLE AND LOCATION (<i>City and State</i>) Phase II ESA Work for Various FLL/HWD Ir Facilities- Airport Runway Expansion Rem Lauderdale, Florida a. PROJECT OWNER HDR Engineering, Inc., Contract # RLI#20011017.0-AV-1	nternational Airport ediation, Fort 23. PROJECT OWNI c. POINT OF CONTACT NAMI Mr. Anwar Kahn HDR Engineering, In	PROFESSIONAL SERVICES 2010 ER'S INFORMATION	22. YEAR C CONST c. POINT OF ((954) 647 Chuck.sinclair	COMPLETED TRUCTION (IF) CONTACT TEI 7-4542 r@hdrinc.com) applicable) LEPHONE NUMBER

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

Scope/Size:

HDR Engineering, Inc. (HDR) was retained by Broward County Aviation Department (BCAD) to prepare a Phase II Environmental Site Assessment Report (ESA) for various facilities related to the Fort Lauderdale/Hollywood International Airport South Runway Expansion project. The Phase II ESA was requested by the BCAD, based on the findings of HDR's draft Phase I ESA. CEI performed the field work and prepared the Phase II ESA report under subcontract to HDR. This Phase II ESA documents the scope and findings of environmental assessment activities conducted at the site. The Phase II ESA was requested to document the soil and groundwater quality in the areas of the site, associated with the south runway expansion project. CEI performed environmental site assessment services for the following sites:

- Former Taylor Road Budget Rental Facility
- Gulfstream International Airlines
- Westside Marina

All sampling was conducted in accordance with the Florida Department of Environmental Protection's (FDEP) Standard Operating Procedures for Field Activities (DEP-SOP-001/01). HDR and CEI recommend no further environmental assessment of the sites.

Cost: Total contract - \$35,194.29



Former Taylor Road Budget Rent-a-Car Facility







Westside Marina

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT					
a.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE			
	Cherokee Enterprises, Inc.	Miami Lakes, Florida	Prime			

F. EXAMPLE PROJECTS QUALIFI (Present as many projects as	20. EXAMPLE PROJECT KEY NUMBER				
21 TITLE AND LOCATION (City and State)	te one Section F for each proj	ect.)	22	YEAR COMPLETE	n
Broward County Aviation Department (BC National Car Rental Center Remediation, Elorida	CAD), Former Fort Lauderdale,	PROFESSIONAL SERVICES 7/2013	22.	CONSTRUCTION (lf applicable)
Horida	23. PROJECT OWN	ER'S INFORMATION			
a. PROJECT OWNER Broward County Aviation Department, Contract # SC406AVC052306*079, SC400AVC082708*57, SC400AVC051509*53	c. POINT OF CONTACT NAME Mr. Michael P. Pacit Broward County Avi	to, P.G. ation Department	c. P((95 mpa	DINT OF CONTACT T 4) 359-6103 citto@broward.org	ELEPHONE NUMBER

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

Fort Lauderdale-Hollywood International Airport (FLL), which is currently undergoing over a billion dollars in renovations associated with terminal modernization and runway expansion programs, has such an environmental program in place. Therefore, in preparation of the planned expansion the Broward County Aviation Department (BCAD) tasked Cherokee Enterprises, Inc. (CEI) with investigating a former rental car facility in 2008 which was in the building footprint of the proposed Terminal 4 Expansion. The site was inactivated in 2008 and was then known as the National Car Rental (NCR) facility.

During CEI's preliminary investigation petroleum was discovered in the pathway of the proposed terminal expansion, which could jeopardize the construction schedule. The new terminal was targeted for construction in the fall of 2013, and BCAD requested that CEI obtain site closure before construction commenced to prevent delays or restrictions while the project was underway. Site closures in Florida fall into two categories: Conditional and non-Conditional. Non-conditional closures allow contractors to proceed with construction without restrictions, since soil and groundwater meet Florida cleanup target levels.

A budget was prepared for the site and a work order was issued, with the goal that CEI would complete the investigation and non-conditional closure by the fall of 2013. After the investigation was completed it was determined that a Methyl Tertiary Butyl Ether (MTBE) plume splintered from the main petroleum plume, and was found at a depth of 45 feet below land surface, influenced from a nearby commercial irrigation well which was drawing the plume deeper. The main petroleum plume was moving in another direction, following groundwater directional flow.

In 2009, CEI installed an Air Sparge/Soil Vapor Extraction (AS/SVE) System to treat the main petroleum plume, after a Remedial Action Plan (RAP) for the site was approved. An AS/SVE treatment system entails the injection of air via vertical wells beneath the contaminant plume. The air encourages volatile contaminants in the soil and groundwater to move into the vapor phase which is then captured by vacuum via SVE wells. The extracted vapors are then passed through activated carbon cells which are placed at the ground surface to recover the petroleum. AS/SVE treatment is very effective at removing drycleaner and petroleum contaminants in sand and limestone subsurface environments like South Florida. A treatment system was not installed in the MTBE plume since a 30-day ozone injection pilot study reduced MTBE contaminants to below natural attenuation levels.

By 2011, the shallow petroleum plume had been abated by the installed AS/SVE treatment system to below groundwater and soil cleanup target levels (GCTLs and SCTLs), and CEI implemented a groundwater monitoring program to evaluate whether contaminant rebound was going to occur. While the main petroleum plume was being treated by the AS/SVE system, CEI monitored the natural attenuation progress in the MTBE plume area and determined that it would not decline sufficiently to meet the 2013 construction schedule. Consequently, since the main petroleum plume had been successfully treated, the AS/SVE treatment system was diverted to the MTBE area.

By March of 2012, the MTBE and main petroleum areas no longer exhibited any contaminants above GCTLs or SCTLs. Therefore, CEI started the required one year of Post Active Remedial Monitoring (PARM) prior to closure. In March of 2013, the site showed four clean quarters, and the site was submitted for non-conditional closure. In July of 2013, the Florida Department of Environmental Protection issued a Site Rehabilitation Completion Order, and in September of 2013 the site was released to BCAD for construction of the new terminal after all the remedial equipment was removed from the site.

In closing, the success of this site can mostly be attributed to constantly monitoring the contaminant levels, and recognizing when changes were necessary to accomplish the goal. In addition, long range planning played a key role in providing sufficient time to accomplish the cleanup goals prior to construction.

Cost: Total contract - \$760,000.00.









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	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT						
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE				
а.	Cherokee Enterprises, Inc.	Miami Lakes, Florida	Prime				

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F. EXAMPLE PROJECTS	20. EXAMPLE PROJECT KEY NUMBER			
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(Present as many projects as	requested by the agency, or 1	0 projects, if not specified.		5
Comple	te one Section F for each proje	ect.)		
21. TITLE AND LOCATION (City and State)			22. YEAR COMPLETE	ED
Miami-Dade County Department of Envir	onmental Resources	PROFESSIONAL SERVICES	CONSTRUCTION	(If applicable)
Management (DERM)- Groundwater, Sur	face Water, and Soil	2009		
Contamination Cleanup Services, Miami,	Florida			
	23. PROJECT OWNE	ER'S INFORMATION		
a. PROJECT OWNER	c. POINT OF CONTACT NAME	_	C. POINT OF CONTACT 1	ELEPHONE NUMBER
Miami-Dade DERM, Contract # E04-	Ms. Julie Balogh		(305) 372-6700	
DERM-01	Miami-Dade County	/ Department of balogj@miamida		de.gov
	Environmental Reso	urces Management		
	1			

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

CEI was awarded the Miami-Dade County E04-DERM-01 PSA Contract for Groundwater, Surface Water and Soil Contamination Cleanup Services for the Miami-Dade County Facilities. As of today, CEI has completed more than 16 projects under the above contract. CEI's performance was exemplary resulting in the awarding of the succession contract (E08-DERM-01) for additional three (3) years period in 2009. The above work assignments are related to the following environmental engineering works:

1) Performing environmental investigation and/or rehabilitation and related tasks in accordance with Chapters 62-770, 62-782 and 62-785 of the Florida Administrative Code (FAC), Chapter 24 of the Miami-Dade County Code, and all other applicable regulations;

2) Performing services related to the modification, repair, removal, replacement, installation and/or abandonment of any underground or aboveground storage systems, and any related tasks, in accordance with Chapters 62-761 and 62-762 FAC, Chapter 24 of the Miami-Dade County Code, and all applicable regulations;

3) Performing services as design criteria professionals and performing duties related to construction management for environmentally necessary construction tasks; and,

4) Performing other related environmental work not identified above, necessary for investigation and/or prevention of potential or known contamination, for compliance with applicable regulations, for protection of the environment and the public health and for cleanup of environmental contamination. Cost: Total contract - \$1,050,000

Some of the projects completed under a lump sum contract include:

- Design and Construction of a Landfill Gas Collection System
- Removal of two (2) single-wall 10,000 gallon USTs and installation of new • double-wall USTs
- Miami International Airport Jet-A Fuel Line Removal and Assessment







25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT					
(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE			
Cherokee Enterprises, Inc.	Miami Lakes, Florida	Prime			

F. EXAMPLE PROJECTS		20. EXAMPLE PROJECT KEY NUMBER			
QUALIF					
(Present as many projects as requested by the agency, or 10 projects, if not specified.					4
Comple	te one Section F for each pro	ject.)			
21. TITLE AND LOCATION (City and State) 22. YEAR COMPLETE					Ð
City of Miami / Liberty City Community R	evitalization Trust	PROFESSIONAL SERVICES CONSTRUCTION (If applicable)			(If applicable)
(ICT) Brownfield Assessment & Cleanun	Miami Elorida	4/2010			
	23. PROJECT OWN	ER'S INFORMATION			
a. PROJECT OWNER	C. POINT OF CONTACT NAM	E	c. PC	DINT OF CONTACT T	ELEPHONE NUMBER
City of Miami, Contract	(305) 416-1468				
#903193/904606/92678-00		hjames@miamigov.com			

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

Scope/Size: The Miami Livery City Community Revitalization District Trust was selected to receive two Brownfields cleanup grants. CEI proposed and received some additional measures that the former Model City Trust utilized to maximize the grant monies awarded and maximized the four site's eligibility in the Florida Department of Environmental Protection (FDEP) Petroleum Preapproval Program. The program, Preapproved Advanced Cleanup (PAC), was used by the former Model City Trust to maximize cleanup funds. It is essentially a "bidding" contest where contaminated site owners attempt to move their sites up the funding eligibility list by offering to pay for a minimum of 25% of the cleanup costs. The FDEP has been allotting approximately \$10 million a year for this program, with two entry periods each year (May 1st to June 30th and November 1st to December 30th). Recent winning "bids" have ranged from 60% down to 25% of cleanup costs. Even supposing a 50% bid submittal is agreed upon to assure a win, this means that the EPA's grant monies are essentially doubled without any financial commitment from the Model City Trust. CEI, on behalf of the trust, submitted packages to enter the PAC program. These included a Limited Site Assessment Report (LSAR), completed application package, and a letter of credit or guarantee of funding for the "bid" portion of the anticipated cleanup cost. The package submitted by CEI was approved by FDEP and four (4) sites were admitted to the PAC program. CEI completed assessment and remediation activities for a **lump sum contract** on three of the sites through separate work orders. **Cost:** Total contract for all three sites - \$500,000.00.



Former Star Station Assessment & Remediation

Removed ~ 799 tons of heavily petroleum contaminated soil from smear zone and removed free floating product (FFP) from an excavated trench during source removal activities. A total of ~ 5,102 gallons of FFP were disposed.



Former Gipson Station Remediation, Monitoring, Demolition & Restoration CEI implemented a one year Post Active Remedial Monitoring (PARM). Contaminant levels were found within the Monitoring Only Plan (MOP). All parameters in the designated monitoring wells did not exceed Groundwater Cleanup Target. CEI recommended site closure, and as of April 2009, the remaining aboveground structures were demolished and the site restored with new sod and fencing for development of the formerly contaminated site.



Former Supreme Station Assessment & Remediation CEI completed the initial soil and groundwater assessment activities by delineating the contaminants vertically & horizontally. CEI assisted the City of Miami in the preparation of a Brownfields Cleanup Grant from the Environmental Protection Agency (EPA). In April 2010, it was announced that the City of Miami was the recipient of this grant.

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE					
a.	Cherokee Enterprises, Inc.	Miami Lakes, Florida	Prime					

	G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS													
26. NAMES OF KEY PERSONNEL (From Section E, Block 12) 27. ROLE IN THIS CONT (From Section E, Block 13)			28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below, before completing table. Place "X" under project key number for project participation same or similar role.) 1 2 3 4 5 6 7 8 9						NF ting	10				
Gabino Cuevas, PE, LEED-AP LEED-AP Project Manag			ger		x	x	x	x						
Amanuel Worku, PE Sr. Project Manager/Pr Principal			roject				x	x						
Jeff	Northrup, PG	hrup, PG Sr. Technical Advisor			x	x	x	x						
		29. EXAMPLE	PROJE	СТ КЕУ	,									
No.	TITLE OF EXAMPLE PROJEC	CT (FROM SECTION F)	No.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)										
1.	Phase II ESA FLL/HWD Airport	Runway Expansion	6.											
2.	Broward County Aviation Dept	. NCR Remediation	7.											
3. Miami-Dade County E 04 DERM Contract			8.											
4. City of Miami Brownfield			9.											
5.			10.											

H. ADDITIONAL INFORMATION

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

[Insert response here]

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	/If a firm I	PART II -	GENERA		FICATIONS	orte)				
2a. FIRM (OF	R BRANCH OFFICE) NAME	las pranch onices	s, complete lo	each specili	c branch onice seeking w	3. YEAR	4. DUNS			
Cherokee	Enterprises, Inc., Fort Lauder	dale Brach O	ffice, Flori	da		ESTABLISHED	NUMBER			
						1999 070873836				
2b. STREET						5. OWNE	RSHIP			
14474 Co	mmerce Way					a. TYPE				
						Corporation				
2c. CITY		b. SMALL BUSINESS ST	ATUS							
Miami Lakes FL 33016						Small Disadvanta	ged Business			
6a. POINT O	F CONTACT NAME AND TITLE					7. NAME OF FIRM (If b	ock 2a is a branch			
Jeffrev S.	Northrup, PG, PSSC, CHMM, V	P of Science	S			office)				
6b. TELEPHONE NUMBER 6c. E-MAIL ADDRESS						Cherokee Enterp	rises, Inc.			
(305) 828	-3353		in@cher	keecorp.	com	062000000000000000000000000000000000000				
8a. FORMER	FIRM NAME(S) (If any)		1.5			8b.YR ESTABLISHED	8c. DUNS NUMBER			
Not applic	cable					n/a	n/a			
							Act to.			
	9. EMPLOYEES BY DISCIP	LINE			10. PROFILE OI ANNUAL AVERAGE	F FIRM'S EXPERIENCE A	ND YEARS			
a. Function	h Dissisting	c. No. of	Employees	a. Profile			c. Revenue			
Code	b. Discipline	(1) FIRM	(2) BRANCH	Code	D. C	experience	(see below)			
02	Administrative	9	1	A04	Air Pollution Control 1					
08	CADD Technician	1	0	C14	Conservation and Re	esource Management	1			
16	Construction Manager	1	0	C15	Construction Manag	ement	3			
23	Environmental	5	0	C18	Cost Estimating, Cos	t Engineering & Analysis	2			
24 Environmental Scientists 3 0 E09 Environmental Impact Studies						4				

a. Function		h Dissipling	c. No. of	Employees	a. Profile	e b Experience			c. Revenue
Code		b. Discipline	(1) FIRM	(2) BRANCH	Code	3	b. Experienc	e	(see below)
02	Administra	ative	9	1	A04	Air Pollution Cont	rol		1
08	CADD Tec	nnician	1	0	C14	Conservation and	Resource	Management	1
16	Constructi	on Manager	1	0	C15	Construction Mar	nagement		3
23	Environme	ental	5	0	C18	Cost Estimating, C	Cost Engine	ering & Analysis	2
24	Environme	ental Scientists	3	0	E09	Environmental Im	pact Studi	es	4
30	Geologists		1	0	H03	Hazardous, Toxic, Remediation	Hazardous, Toxic, Radioactive Waste Remediation		
48	Project Ma	anager	7	1	P06	Planning (Site, Ins	stallation, a	and Project)	2
58	Technician		16	2	P07	Plumbing & Pipin	g Design		2
					S05	Soils & Geologica	Studies; F	oundations	2
					S13	Strom Water Han	dling & Fac	cilities	2
					C15	Construction Management			5
					D04	Design/Build Prep Proposals	paration of	Request for	6
					E08	Engineering Econ	omics		1
					E11	Environmental Planning			5
					E12	Environmental Remediation			6
					E13	Environmental Testing & Analysis			2
					P02	Petroleum & Fuel	(Storage &	& Distribution)	5
					W02	Water Resources;	; Hydrology	; Ground Water	3
					103	Industrial Waste	Remediatio	on	2
		Total							
	11. ANNU SERV (Insert rev	AL AVERAGE PROFESSIONA ICES REVENUES OF FIRM FOR LAST 3 YEARS enue index number shown at right)	L	1. 2.	PR Less than \$' \$100,000 to	OFESSIONAL SERV 100,000 less than \$250,000	ICES REVE 6. 7.	\$2 million to less tha \$5 million to less tha	R n \$5 million n \$10 million
a. Federal Wor	rk	6		3.	\$250,000 to	less than \$500,000	8. 9	\$10 million to less th	an \$25 million
b. Non-Federa	l Work	7		4.	\$1 million to	less than \$2 million	9. 10.	\$50 million or greater	an 950 minion f
c. Total Work		8		25(2)					
			2. A The f	UTHORIZED Foregoing is a	REPRESENT statement o	ATIVE f facts.			
a. SIGNATUR	Eng A. pla	thup					b. DATE)14	
c. NAME AND	TITLE effrey S. No	orthrup, PG, PSSC, CHN	IM, VP of	Sciences					

	E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.)								
12.	NAME	13. ROLE IN THIS CON	ITRACT			14. YEARS EX	PERIENCE		
Ra	ıj Krishnasamy, P.E.	Principal Geotech	nnical Engi	neer	a. TOTAL 25	. b	. WITH CURRENT FIRM 13		
15. TIF	FIRM NAME AND LOCATION (City and State)	Florida							
16. BS	EDUCATION (<i>DEGREE AND SPECIALIZATION</i>) S Civil Engineering, Christian Brothers University, S Civil Engineering, University of Memphis, 1996	1987	17. CURREN Profession	NT PROFESSIONAL RE nal Engineer, Florid	GISTRATI da No. 53	ON (STATE AI 3567	ND DISCIPLINE)		
18. An	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Orgonerican Society of Highway Engineers, Past President	^{ganizations, Training, Awar} dent, Florida Enginee	^{rds, etc.)} ering Society	/, Past Treasurer					
Ge	eotechnical Material Engineering Council, Past Cha	airman							
	1	19. RELEVANT F	PROJECTS	ſ					
	(1) TITLE AND LOCATION (<i>City and State</i>) Taxiway Echo Rehabilitation Project - Fort Laud Broward County, Florida	port	PROFESSIONAL SEI	(2) YEAR (RVICES	COMPLETED	TION (If applicable)			
 a. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE a. Mr. Krishnasamy was the principal in charge of the geotechnical exploration, pavement cores and laboratory testing for the rehabilitation which included reconstruction or milling and resurfacing of Taxiway Echo and connectors. Field study consisted of 2 Standard Penetration Test (SPT) borings, 3 BoreHole Permeability (BHP) tests, field CBR tests - Kessler Method, and 15 pavement cores. Performed limited laboratory testing on selected soil samples, including grain size analysis, organic content, and Modified proctor Tests. Also performed laboratory (CBR tests (ASTM D1883). Provided subsurface information, coil profiles, and test results. 									
	(1) TITLE AND LOCATION (City and State)	dendele Eve evitive Air			(2) YEAR (COMPLETED			
	Taxiway Bravo Rehabilitation Project - Fort Lauderdale Executive Airport Broward County, Florida				RVICES	CONSTRUCTION (If applicable)			
b.	b. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Check if project performed with current firm Mr. Krishnasamy was the principal in charge of the geotechnical study for the rehabilitation of Taxiway Bravo at Ft. Lauderdale Executive Airport (FXE) in Broward County, Florida. The project was approximately 2 miles long. The rehabilitation included widening of Taxiway Charlie, Mike and November and milling and resurfacing Taxiway Bravo. Performed Standard Penetration Test (SPT) borings along Taxiway Bravo and exit ramps as well as pavement cores. Provided geotechnical report summarize findings as well as								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED			
	Taxiway Delta & Charlie Rehabilitation Projec Airport, Broward County, Florida	t - Fort Lauderdale	Executive	PROFESSIONAL SEI 2010	RVICES	CONSTRUC	TION (If applicable)		
C.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND Mr. Krishnasamy was the principal in charge o Performed Standard Penetration Test (SPT) b subsurface conditions found, groundwater condi	SPECIFIC ROLE of the geotechnical se porings and pavement itions at the site, and	ervices for t nt cores. P pavement o	Check if pro he milling and res rovided a geotech core test results.	oject perfo urfacing inical ser	rmed with cu of Taxiway vices repol	rrent firm Delta & Charlie. rt discussing the		
	(1) TITLE AND LOCATION (<i>City and State</i>)	ator Dridgo to Tormir	al 2 Fart		(2) YEAR	COMPLETED			
	Lauderdale–Hollywood International Airport, Bro	oward County, Florida	a 3, Fort	PROFESSIONAL SEI 2011	RVICES	CONSTRUC	TION (If applicable)		
d.	 (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Krishnasamy was the principal in charge of the geotechnical engineering study for proposed Western Expansion of Terminal 4 and a connector bridge to Terminal 3. Field work consisted of coordinating with BCAD authorities, drilling thirty (30) Standard Penetration Test (SPT) borings to a depth of 70 feet, and one (1) SPT boring to a depth of 60 feet below existing grade. Provided a geotechnical report summarizing subsurface conditions and groundwater information. TSF provided geotechnical recommendations regarding foundation design, including evaluating the use of Auger Cast-In-Place (ACIP) piles to support the proposed expansion. Provided ACIP pile design criteria and recommendations, site preparation recommendations, floor slab recommendations, and information regarding transh evaluations. 								
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED			
	Expansion of Runway 9R/27L (to be 10R-28L) International Airport, Broward County, Florida	, ⊦ort Lauderdale –	Hollywood	PROFESSIONAL SEI	RVICES	CONSTRUC	TION (If applicable)		
e.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND Mr. Krishnasamy was the principal in charge of US-1/FEC railroad structures, high fill embankm Railroad structures, MSE walls and high emban higher than the normal practice in Florida. recommendations for MSE walls and embankme	SPECIFIC ROLE the geotechnical stunent, and MSE walls. hkments. Maximum M Performed pile ca ent fill as well as othe	idy for the p SPT soil bo ISE wall he apacity ana er geotechni	Check if pro proposed expansio prings and samplin ight is expected to alysis for bridge cal engineering rea	pject perfo n of Run g are be be abou structure commend	rmed with cu way 9R-27I ing perform It 65 ft. whit es. Provide dations.	Irrent firm L and associated ed for US-1/FEC ch is significantly ed analysis and		



	E. RESUMES OF KE (Compl	EY PERSONNEL PRO	r each key	-OR THIS CONTRA / person.)	ACI		
12.	NAME	13. ROLE IN THIS CONT	RACT	, ,		14. YEAR	S EXPERIENCE
Fra	ncois Thomas, P.E.	Principal Engineer			a. TOTAL 21		b. WITH CURRENT FIRM 5
15. I TIE	FIRM NAME AND LOCATION <i>(City and State)</i> RRA SOUTH FLORIDA, INC., West Palm Beach,	, Florida					
16.	EDUCATION (DEGREE AND SPECIALIZATION)		17. CURREN	NT PROFESSIONAL RE	GISTRATIO	ON (STAT	TE AND DISCIPLINE)
MS	in Geotechnical Engineering, 1993		Profession	nal Engineer, Floric	la No. 56	6381	
BS	in Civil Engineering, 1991						
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Org	ganizations, Training, Awards	s, etc.)				
Spe	tified Masonry Inspector						
Ra	diation Safety Officer						
rta		19. RELEVANT PR	OJECTS				
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLET	TED
	Taxiway Bravo Rehabilitation Project - Fort Lauc Broward County, Florida	derdale Executive Airpo	ort	PROFESSIONAL SEF	RVICES	CONST	RUCTION (If applicable) 2012
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		Check if pro	ject perfo	rmed wit	h current firm
a. Mr. Thomas was the principal in charge of the material testing and inspection services for the taxiway rehabilitation. Perform laboratory testing including LBRs, Proctors, and concrete breaks. Provided earthwork and concrete inspections during subgrade a base construction. During asphalt pavement rehabilitation (milling and resurfacing), provided field asphalt inspectors to obse placement of test strip, tack placement, and surface and leveling courses. TSF inspectors were also in charge of tracking all tonna waste quantities, tack and prime quantities, and based on those numbers the inspectors verified pay applications. Also provided							
	(1) TITLE AND LOCATION (City and State)	-			TED		
	Taxiway Charlie West Settlement Study, Fort La International Airport, Broward County, Florida	uderdale-Hollywood		PROFESSIONAL SEF 2011	RVICES	CONST	RUCTION (If applicable)
 (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Thomas served as principal geotechnical engineer for the geotechnical engineering study to investigate the subsurface condition at the project site, and provide site preparation recommendations for the pavement subgrade to minimize the rutting/settlement Provided geotechnical engineering report discussing potential causes of rutting/settlement along with site preparatio recommendations that the soil be densified and the pavement section reinforced to minimize the potential of rutting/settlement 							ed with current firm ubsurface conditions e rutting/settlement. h site preparation of rutting/settlement.
	(1) TITLE AND LOCATION (City and State)	<u> </u>			(2) YEAR (COMPLET	ΓED
	Taxiway Echo Rehabilitation Project - Fort Laude Broward County, Florida	erdale Executive Airpo	port PROFESSIONAL 2013				RUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		Check if pro	iect perfo	rmed wit	h current firm
c.	Mr. Thomas served as principal geotechnical er rehabilitation which included reconstruction or Standard Penetration Test (SPT) borings, 3 Bo cores. Performed limited laboratory testing on proctor Tests. Also performed laboratory CBR te	ngineer for the geotech milling and resurfacing reHole Permeability (E selected soil sample ests (ASTM D1883). Pr	hnical exp g of Taxiv 3HP) tests s, includir rovided su	loration, pavement vay Echo and coni s, field CBR tests ng grain size anal bsurface informatio	t cores a nectors. - Kessler ysis, org on, soil p	nd labo Field st Methor anic co rofiles, a	ratory testing for the sudy consisted of 25 d, and 15 pavement ontent, and Modified and test results.
	(1) TITLE AND LOCATION (City and State)		. ,.		(2) YEAR (COMPLET	TED
	Airport, Broward County, Florida	t - Fort Lauderdale E	xecutive	PROFESSIONAL SEF 2010	RVICES	CONST	RUCTION (If applicable)
d.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND S Mr. Thomas served as a the principal geotechr Delta & Charlie. Performed Standard Penetrati discussing the subsurface conditions found, grou	SPECIFIC ROLE hical engineer for the on Test (SPT) borings undwater conditions at	geotechni s and pav the site, a	Check if pro cal services for the rement cores. Prov and pavement core	ject perfo e milling vided a g test rest	rmed wit and res geotechi ults.	h current firm surfacing of Taxiway nical services report
	(1) TITLE AND LOCATION (City and State)				(2) YEAR (COMPLET	ΓED
	Runway 15-33 Rehabilitation and Taxiway C Re Palm Beach County, Florida	econstruction, Lantana	a Airport,	PROFESSIONAL SEF	RVICES	CONST	RUCTION (If applicable) 2012
e.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND S Mr. Thomas was the principal in charge of the c 33 and reconstruction of Taxiway C. Services asphalt testing (during initial test section and certification. Project required working night and w	SPECIFIC ROLE construction material te include inspection of production), miscella weekend shifts.	esting and asphalt p neous co	Check if pro inspection service plant supplier, den ncrete tests, asph	ject perfo s for the sity tests alt cores	rmed wit rehabili s, LBR s, mix c	h current firm itation of runway 15- test, inspection and design reviews, and



	E. RESUMES OF KE (Compl	EY PERSONNEL PR	OPOSED F	FOR THIS CONTR y person.)	ACT	
12.	NAME	13. ROLE IN THIS CON	TRACT	, ,		14. YEARS EXPERIENCE
ŀ	Kumar Vedula, P.E.	Senior Geotechni	cal Engine	er	a. TOTAL	b. WITH CURRENT FIRM
15.	FIRM NAME AND LOCATION (City and State)				18	5
TIE	RRA SOUTH FLORIDA, INC. West Palm Beach	h, Florida	· · · · · · · · · · · ·			
16. Po	EDUCATION (DEGREE AND SPECIALIZATION)	002	17. CURREN	NT PROFESSIONAL RE	EGISTRATI	ON (STATE AND DISCIPLINE)
Ба М	Civil Engineering, University of Memobis, 1995	992	FIDIESSIDI	nai Engineer, Fiono	ua NO. 54	+073
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Ord	ganizations, Training, Awar	rds, etc.)			
Am <i>Au</i> FH <i>Im</i> Ad	nerican Society of Civil Engineers, Past President gered Cast-in-Place and Driven Pre-stressed Co WA Resource Center, 83 rd Annual Transportation provement of soft clay using high pressure Jet Gravances in Geotechnical Earthquake Engineering ar	ncrete Pile Field Pe Research Board Me out, Chang, T.S., Veo Id Soil Dynamics, Sa	<i>rformance</i> eting, Wash dula, R. V., in Diego, M	Comparison, Frizz hington D.C., Janua and Chang, K,P., 4 arch 2001	ti, R. P, ≀ ary 2004 th Interna	& Vedula, R.V, Published in tional Conference on Recent
		19. RELEVANT P	PROJECTS			
	(1) TITLE AND LOCATION (City and State)		1.1.a.11		(2) YEAR	COMPLETED
	Expansion of Runway 9R/2/L (to be 10R-28L), Fort Lauderdale – Hollywood International Airport, Broward County, Florida			PROFESSIONAL SEI 2013	RVICES	CONSTRUCTION (If applicable)
_	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND \$	SPECIFIC ROLE		Check if pro	oject perfo	rmed with current firm
^{a.} Mr. Vedula was the senior geotechnical engineer for the geotechnical study for the proposed expansion of Runway 9R-27L associated US-1/FEC railroad structures, high fill embankment, and MSE walls. SPT soil borings and sampling are being performed US-1/FEC Railroad structures, MSE walls and high embankments. Maximum MSE wall height is expected to be about 65 ft. whice significantly higher than the normal practice in Florida. Performed pile capacity analysis for bridge structures. Provided analysis recommendations for MSE walls and embankment fill as well as other geotechnical engineering recommendations.						
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED
	T4 West Fuel Hydrant System, Fort Lauderd Airport, Broward County, Florida	ale – Hollywood Int	ternational	PROFESSIONAL SEI 2011	RVICES	CONSTRUCTION (If applicable)
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND \$	SPECIFIC ROLE		Check if pro	oject perfo	rmed with current firm
_	Mr. Vedula was the senior geotechnical enginee to enable an evaluation of acceptable foundatio geotechnical recommendations regarding found	r for the geotechnica n for the constructior ation design and soil	Il engineerir n. Provideo parameters	ng study to explore a geotechnical re s.	the subsport sum	surface conditions at the site marizing findings as well as
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED
	Northside Renovations at Fort Lauderdale J Hollywood International Airport, Broward County	et Center, Fort La , Florida	uderdale-	PROFESSIONAL SERVICES 2006		CONSTRUCTION (If applicable)
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND \$	SPECIFIC ROLE		Check if pro	oject perfo	rmed with current firm
	Mr. Vedula was the senior geotechnical engine pavement areas and resurfacing of existing par design, lateral earth pressure, pavement design,	er for the geotechnic vement. Provided re , and other construct	cal study fo commenda ion conside	or the construction tions for site prepa rations.	of a han aration, fo	ngar and office spaces, new oundation design, floor slab
	(1) TITLE AND LOCATION (City and State)				(2) YEAR	COMPLETED
	I axiway Bravo Rehabilitation Project - Fort Laude Broward County, Florida	rdale Executive Airpo	rt	PROFESSIONAL SEI 2008	RVICES	CONSTRUCTION (If applicable)
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND S	SPECIFIC ROLE		Check if pro	oject perfo	rmed with current firm
 d. (3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE Mr. Vedula was the senior geotechnical engineer for the geotechnical study for the rehabilitation of Taxiway Bravo a Executive Airport (FXE) in Broward County, Florida. The project was approximately 2 miles long. The rehabilitation of Taxiway Charlie, Mike and November and milling and resurfacing Taxiway Bravo. Performed Standard Pener borings along Taxiway Bravo and exit ramps as well as pavement cores. Provided geotechnical report summarize to geotechnical recommendations regarding excavations, ground water control and pavement design. 						
	Mounting Structures and Travel Lane at Remo	ote Parking, Fort La	uderdale-			
	Hollywood International Airport, Broward County	, Florida		2009	RVICES	CONSTRUCTION (If applicable)
e. (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE						
	Mr. Vedula was the senior engineer for the ge proximity to the proposed mounting structures a and subsurface conditions. Also provided geot system along with considerations for drilled shaf	eotechnical engineer nd travel lane. Provi echnical recommend t construction.	ing study to ded geotect dations and	o explore the sub- hnical engineering I soil parameters	surface o report w for a dril	conditions within or in close ith summary of groundwater led shaft foundation design



F. EXAMPLE PROJECTS WI QUALIFICA (Present as many projects as requ Complete of	20. EXAMPLE PROJECT KEY NUMBER 1					
21. TITLE AND LOCATION (City and State) 22. YEAR CC				OMPLETED		
Taxiway Bravo Rehabilitation Project - Fort La	uderdale Executive Airport	PROFESSIONAL SERVICES		CONSTRUCTION (If applicable)		
Broward County, Florida			2008	2012		
23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER b. POINT OF CONTACT NAME c. POINT OF CONTACT			ACT TELEPHONE NUMBER			
Kimley-Horn & Associates, Inc Mr. Dave Bardt, P.E. (561) 845-0665						

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

Performed a geotechnical study for the rehabilitation of Taxiway Bravo at Fort Lauderdale Executive Airport (FXE) in Broward County, Florida. The project was approximately 2 miles long. The rehabilitation included widening of Taxiway Charlie, Mike and November and milling and resurfacing Taxiway Bravo. Performed Standard Penetration Test (SPT) borings along Taxiway Bravo and exit ramps as well as pavement cores. Provided geotechnical report summarize findings as well as geotechnical recommendations regarding excavations, ground water control and pavement design.

During construction, provided material testing and inspection services for the taxiway rehabilitation. Performed laboratory testing including LBRs, Proctors, and concrete breaks. Provided earthwork and concrete inspections during subgrade and base construction. During asphalt pavement rehabilitation (milling and resurfacing), provided field asphalt inspectors to observe placement of test strip, tack placement, and surface and leveling courses. TSF inspectors were also in charge of tracking all tonnage, waste quantities, tack and prime quantities, and based on those numbers the inspectors verified pay applications. Also provided all asphalt plant inspections prior to and during all asphalt field activities.

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering, Construction Material Testing and Inspection Services
b.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
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 W QUALIFICA (Present as many projects as requ Complete o	20. EXAMPLE PROJECT KEY NUMBER 2						
21. TITLE AND LOCATION (City and State)				OMPLETED			
Taxiway Echo Rehabilitation Project - Fort Lauderdale Executive Airport			NAL SERVICES	CONSTRUCTION (If applicable)			
Broward County, Florida			2013				
23. PROJECT OWNER'S INFORMATION							
a. PROJECT OWNER b. POINT OF CONTACT NAME c. POINT OF CONTACT			ACT TELEPHONE NUMBER				
Kimley-Horn & Associates, Inc							

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

Performed geotechnical exploration, pavement cores and laboratory testing for the rehabilitation which included reconstruction or milling and resurfacing of Taxiway Echo and connectors. Field study consisted of 25 Standard Penetration Test (SPT) borings, 3 BoreHole Permeability (BHP) tests, field CBR tests - Kessler Method, and 15 pavement cores. Performed limited laboratory testing on selected soil samples, including grain size analysis, organic content, and Modified proctor Tests. Also performed laboratory CBR tests (ASTM D1883). Provided subsurface information, soil profiles, and test results.

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering Services
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
b.			
c	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
0.			
d.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
£	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
r.			



F. EXAMPLE PROJECTS W QUALIFICA (Present as many projects as requ Complete o	20. EXAMPLE PROJECT KEY NUMBER 3			
21. TITLE AND LOCATION (City and State)			22. YEAR C	;OMPLETED
Taxiway Delta & Charlie Rehabilitation Project Airport, Broward County, Florida	t, Fort Lauderdale Executive	PROFESSIO	NAL SERVICES 2010	CONSTRUCTION (If applicable)
	23. PROJECT OWNER'S INFOR	MATION		
a. PROJECT OWNER	b. POINT OF CONTACT NAME		c. POINT OF CONT	ACT TELEPHONE NUMBER
Kimley-Horn & Associates, Inc.	Mr. Dave Bardt, P.E.		(561) 845-0665	
24. BRIEF DESCRIPTION OF PROJECT AND RELEVAN	CE TO THIS CONTRACT (Include scope, size,	and cost)		
Performed geotechnical services for the milli borings and pavement cores. Provided a geo at the site, and pavement core test results.	ing and resurracing of Taxiway Delta	a & Charlie. the subsurfa	ace conditions for	and Penetration Test (SPT) und, groundwater conditions

	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.	Tierra South Florida, Inc.	West Palm Beach, FL	Geotechnical Engineering Services
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
b.			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
c.			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
a.			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
6			
0.			
	(1) FIRM NAME	(2) FIRM LOCATION (City and State)	(3) ROLE
f.			



	G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS										
26. NAMES OF KEY27. ROLE IN THISPERSONNELCONTRACT(From Section E, Block 12)(From Section E, Block 13)		28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Raj Krishnasamy, P.E.	Principal Engineer	Х	Х	Х							
Francois Thomas, P.E.	Principal Engineer	X	Х								

29. EXAMPLE PROJECTS KEY

NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)	NO.	TITLE OF EXAMPLE PROJECT (FROM SECTION F)
1	Taxiway Bravo Rehabilitation Project - Fort Lauderdale Executive Airport Broward County, Florida	6	
2	Taxiway Echo Rehabilitation Project - Fort Lauderdale Executive Airport Broward County, Florida	7	
3	Taxiway Delta & Charlie Rehabilitation Project, Fort Lauderdale Executive Airport, Broward County, Florida	8	
4		9	
5		10	



ARCHITECT ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

946-11333

PART II - GENERAL QUALIFICATIONS

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

	(ກິບ	IIIIII IIa	S Dianon Unit	ses, com		sh specin			ing work		
2a. FIRM (OR BRANCH OFFICE) NAME						3. YEAR ESTABLISHED 4. DUNS NUMB				JNS NUMBER	
TIERRA SOUTH FLORIDA, INC.							2003 829296222				296222
2b. STREET									5. OWNE	RSH	IP
2765 Vista Parkway, Suite 10								a. TYPE			
2c CITY 2d STATE						2e ZIP C	ODF	Corporation			
West Palm I	Beach				FL	33411		b SMALL BUSIN	ESS STATUS	s	
								Broward Cour	tv CBF	0	
ba. POINT OF		VIE AND III / Dringing	LE I Engineer Bree	idant				EDOT DBE ar	nd SBE		
Raj Kristinas	samy, P.E.	Principal	i Engineer, Pres	sident				Florida Statew	ide OSD I	MBF	
								7. NAME OF FIRM	A (If block 2a	a is a b	ranch office)
								-	N/A	A	
6b. TELEPHON			6C. E-MAIL ADDI	RESS Floom							
(561)687-85	539		Raj@ HerraS	F.COM							
		8a.	FORMER FIRM N	NAME(S) (If a	any)			8b. YR. ESTAB	LISHED	8c. l	DUNS NUMBER
			N/A					N/A			N/A
	0 =						10. PRO	FILE OF FIRM'S	S EXPERI	ENC	E AND
	9. E					ANN	NUAL AV	ERAGE REVEN	IUE FOR I	LAST	5 YEARS
a. Function				c. No. of	Employees	a. Profile					c. Revenue Index
Code		b. Discipl	ine	(1) FIRM	(2) BRANCH	Code		b. Experience	b. Experience		Number
2				7	7	S05	Soile	(see b)		(See below)	
2	Auministrative				505 Solis Found		lations			5	
8	CADD Te	chnician		2	2	T02	Testing	and Inspection Services 6			6
27	Foundatio	n/Geotec	hnical Eng	5	5	102	rooung		00111000		0
58	Technicia	n/Analyst		30	30						
58	Technicia	n/Inspecto	or	6	6						
	recimicia	mapeeu	51	0	0						
					-						
					-						
			Tatal	50	50						
				50	50					10 -	
11. ANNU				4 1		SSIONAL S	SERVICE	S REVENUE IN		VIBE1	<
SERVICES REVENUES OF FIRM			1. Les	S (nan \$100,0	100. than \$250	000	0. \$2 million 7 \$5 million f	to less tha	11 JJ 11 JJ		
(Insert revenue index number shown at right) 3 \$25			50,000 to less	than \$500,	000	8 \$10 million	to less th	unφn an \$'	25 million		
a, Federal Work 3 4. \$500 000 to let				0.000 to less	than \$1 mi	llion	9. \$25 million	to less th	nan \$	50 million	
b. Non-Federal Work 5 5. \$1 million to less				than \$2 mi	llion	10. \$50 millior	or greate	er 🗘			
c. Total Work 6							0				
				12. AUTH		RESENTA	TIVE				
				The fore	going is a sta	tement of fa	acts.				
a. SIGNATURE	_	11	·						b. DATE		
		H							February	/ 11,	2014
_											

c. NAME AND TITLE

Raj Krishnasamy, P.E. / President and Principal Engineer



NON-COLLUSION STATEMENT:

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).

3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

NAME

Not Applicable

RELATIONSHIPS

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

The Business identified below certifies that it qualifies for the local BUSINESS preference classification as indicated herein, and further certifies and agrees that it will re-affirm it's local preference classification annually no later than thirty (30) calendar days prior to the anniversary of the date of a contract awarded pursuant to this ITB. Violation of the foregoing provision may result in contract termination.

(1)	Business Name	is a Class A Business as defined in City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the City of Fort Lauderdale current year Business Tax Receipt <u>and</u> a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.			
(2)	Business Name	is a Class B Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Business Tax Receipt <u>or</u> a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.			
(3)	HDR Engineering, Inc. HDR Engineering, Inc.	is a Class C Business as defined in the City of Fort Lauderdale Ordinance No. C-12- 04, Sec.2-199.2. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.			
	Business Name				
(4)		requests a Conditional Class A classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.			
	Business Name				
(5)		requests a Conditional Class B classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.			
	Business Name	a contract of the second se			
(6)	Rueinoss Namo	is considered a Class D Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. and does not qualify for Local Preference consideration.			
HDR Engineering, Inc.					
BIDDER'S COMPANY:HDR_Engineering; Inc.					
AUTH	AUTHORIZED COMPANY PERSON: Charles T: Sinclair 082/13/2814 NAME SIGNATURE DATE				

BROWARD COUNTY LOCAL BUSINESS TAX RECEIPT 115 S. Andrews Ave., Rm. A-100, Ft. Lauderdale, FL 33301-1895 - 954-831-4000 VALID OCTOBER 1, 2013 THROUGH SEPTEMBER 30, 2014 Receipt #:315-782 ENGINEER (ENGINEERING FIRM) Business Name: HDR ENGINEERING INC Business Type: Business Opened:10/01/2008 **Owner Name: CHARLES THOMAS SINCLAIR PE** Business Location: 3250 W COMMERCIAL BLVD STE 10(State/County/Cert/Reg: 55293 **Exemption Code:** FT LAUDERDALE Business Phone: 954-647-4542 Professionals Machines Employees Rooms Seats 15 For Vending Business Only Vending Type: Number of Machines: NSF Fee Prior Years **Collection Cost** Total Paid Penalty Tax Amount Transfer Fee

0.00

2013 - 2014

THIS RECEIPT MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS

0.00

THIS BECOMES A TAX RECEIPT

3.00

WHEN VALIDATED

45.00

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.

0.00

Mailing Address:

HDR ENGINEERING INC 3250 W COMMERCIAL BLVD STE 100 FORT LAUDERDALE, FL 33309 Receipt #01C-12-00012343 Paid 08/07/2013 48.00

0.00

48.00

EXHIBIT 3 14-0577



City of Fort Lauderdale • Procurement Services Division 100 N. Andrews Avenue, 619 • Fort Lauderdale, Florida 33301 954-828-5933 Fax 954-828-5576 purchase@fortlauderdale.gov

ADDENDUM NO. 1

RFQ 946-11333 GENERAL ENGINEERING AVIATION CONSULTANT SERVICES

ISSUED January 20, 2014

1. This addendum is being issued to make the following changes:

A. Section 01 (RFQ Schedule) is being modified as indicated below:

EVENT	DATE/TIME
Release of RFQ	01/21/2014
Deadline for Questions/Request for Clarifications	02/07/2014
Proposal Due Date/Time (Deadline)	03/19/2014
Committee Review and Shortlist (Estimated)	03/27/2014
Presentation by Shortlisted Firms (Estimated)	03/27/2014
Commission Approval to Begin Negotiations with 1 st Ranked Firm	05/06/2014

2. The opening date of this Invitation to Bid has been changed to March 19, 2014.

3. All other terms, conditions, and specifications remain unchanged.

Kirk W. Buffington, CPPO, C.P.M. MBA Deputy Director of Finance

Company Name:	HDR Engineering, Inc.
Bidder's Signature: _	CA (Please print)

Date: 02/13/2014



City of Fort Lauderdale • Procurement Services Division 100 N. Andrews Avenue, 619 • Fort Lauderdale, Florida 33301 954-828-5933 Fax 954-828-5576 purchase@fortlauderdale.gov

ADDENDUM NO. 2

RFQ 946-11333 GENERAL ENGINEERING AVIATION CONSULTANT SERVICES

ISSUED January 20, 2014

1. This addendum is being issued to make the following changes:

A. Adding Addendum No. 1 Bid Documents to BidSync.

2. All other terms, conditions, and specifications remain unchanged.

(Please print)

Kirk W. Buffington, CPPO, C.P.M. MBA Deputy Director of Finance

Company Name: __HDR Engineering, Inc.

Bidder's Signature:

Date: _____02/14/2014



City of Fort Lauderdale • Procurement Services Division 100 N. Andrews Avenue, 619 • Fort Lauderdale, Florida 33301 954-828-5933 Fax 954-828-5576 purchase@fortlauderdale.gov

ADDENDUM NO. 3

RFQ 946-11333 GENERAL ENGINEERING AVIATION CONSULTANT SERVICES

ISSUED January 23, 2014

1. This addendum is being issued to make the following changes:

A. Section 01 (RFQ Schedule) is being modified as indicated below:

EVENT	DATE/TIME
Release of RFQ	01/21/2014
Deadline for Questions/Request for Clarifications	02/07/2014
Proposal Due Date/Time (Deadline)	02/13/2014
Committee Review and Shortlist (Estimated)	02/24/2014
Presentation by Shortlisted Firms (Estimated)	03/13/2014
Commission Approval to Begin Negotiations with 1 st Ranked Firm	04/15/2014

2. The opening date of this Invitation to Bid has been changed to February 13, 2014.

3. All other terms, conditions, and specifications remain unchanged.

Kirk W. Buffington, CPPO, C.P.M. MBA Deputy Director of Finance

Company Name:	HDR Engineering,	Inc.
Bidder's Signature:	(Plea	se print)

Date: 02/14/2014