



Request for Letters of Interest

Continuing Contract for Professional Engineering and Consulting Services for the Municipal Air Park

L-54-16

Pompano Beach, Florida



August
2016



A

Title Page



A Title Page

Project Name: Continuing Contract for Professional Engineering and Consulting Services for the Municipal Air Park

Project No.: L-54-16

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Date: August 8th, 2016



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C

Letter of Interest



August 8, 2016

Purchasing Office
City of Pompano Beach
1190 NE 3rd Avenue, Building C (Front)
Pompano Beach, Florida 33060

**RE: Continuing Contract for Professional Engineering and Consulting Services for the
Municipal Air Park
RLI No. L-54-16**

Dear Selection Committee Members:

Ongoing improvements and expansion to the Pompano Beach Municipal Air Park (PMP) are necessary to keep pace with the City of Pompano Beach's current and future growth projections. HDR Engineering, Inc. (HDR) and our partner firms 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 a facility of this size and function.

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

We are prepared to provide the **most cost-effective and sustainable solutions** for Professional Engineering and Consulting Services for the Municipal Air Park. Together with our local based partners, Keith & Associates, CRJ & Associates, Hillers Electrical Engineering, Tierra South Florida and The Jones Payne Group, our team provides you:

- **Responsive, locally-based team.** We have partnered to bring together the best that our local aviation design community has to offer. John Neff, Tim Fish, Dodie Keith-Lazowick and Marc Fermanian are all locally based professionals who have successfully delivered airfield improvement projects in South Florida for over two decades. All production and program management will be performed in HDR's local office located at 3250 W. Commercial Blvd, Suite 100, Fort Lauderdale, Florida 33309.
- **Best of the Aviation Industry.** We are proud to bring you a team that is recognized throughout the aviation industry as having some of the best technical resources available. This is proven through recognition and accolades received from both local and national organizations. HDR was recently named a top go-to firm for aviation services by *Road and Bridges*; recognition solely based on feedback from our current clients and not simply based upon earned fees. Our team is very engaged in the aviation community, including serving on committees of numerous industry organizations which provides an unmatched knowledge of the Federal Aviation Administrations (FAA) design and operation standards. We are excited to have the opportunity to match these world class professionals to your world class facility.

- **Innovative Approach to provide solutions.** Our team brings the latest in technology that will result in quality design and construction for your priority projects. This includes state-of-the-art visualization programming which allows our design team to work directly with Airport Operations and Stakeholders to see construction impacts to operations in real time and use the information to develop detailed construction safety and phasing plans that not only check the box but serve as a tool for coordination between design, construction and operations. We will bring you solutions utilizing Navisworks, AutoDesk 360 Glue and Bluebeam Revu in addition to performing all design in the latest version of AutoCAD Civil 3D.
- **Local Relevant Experience** Our team has worked together to successfully deliver the same services needed at the Pompano Air Park throughout South Florida. This includes currently serving as the General Engineering Consultants at the Fort Lauderdale Executive Airport, Fort Lauderdale-Hollywood International Airport and North Perry General Aviation Airport . Our experience working together means we are not impeded by a learning curve to working with local stakeholders, regulatory permitting agencies, and contractors.

Whether its airside improvements, noise mitigation, growth, regulatory changes, sustainability or even airspace travel, we will collaborate with you to tackle your industry's complexities and deliver the right solutions customized to your unique needs. Our team brings the depth of resources needed to deliver all projects and services listed in the request for letters of interest.

Thank you for the opportunity to submit our approach for providing Professional Engineering and Consulting Services for the Municipal Air Park. If you have any questions or need additional information, please feel free to call me at (954) 668-5223 or email me at Will.Suero@hdrinc.com.

Respectfully Submitted,
HDR Engineering, Inc.



Will Suero PE
Vice President

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Technical Approach

TECHNICAL APPROACH

The Pompano Beach Air Park is located in the heart of the Gold Coast and serves the general aviation needs of Broward County. This air transportation facility is owned and operated by the City of Pompano Beach and is a public use facility. The airpark operates 3 runways from 3,502 feet to 4,918 feet in length and is the home to the new semi-rigid airship operated by Goodyear. The HDR Team brings you unmatched experience in successfully delivering solutions to clients both locally and throughout the country for similar airport facilities.

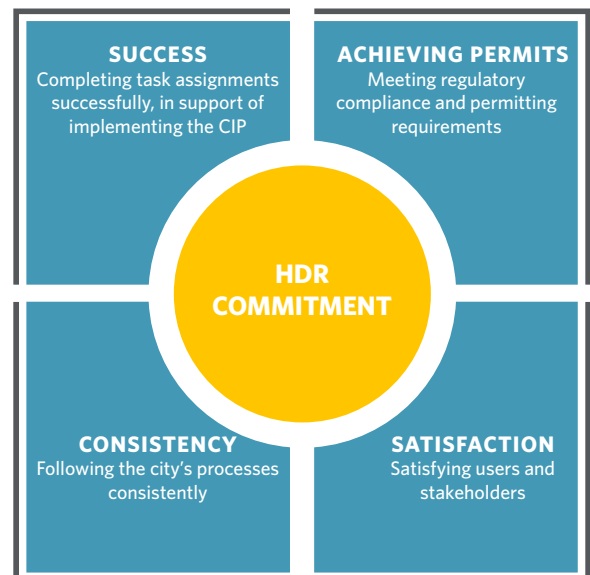
We provide unmatched experience in providing on-call services such as those required under this contract. HDR alone is currently managing over 15 on-call general engineering contracts within the state of Florida. Furthermore, the chart below illustrates our recent similar aviation on-call experience at some of the largest and busiest aviation facilities in the world.

<ul style="list-style-type: none"> • General Engineering Consultant • Terminal Rehabilitation • Runway Rehabilitation • Taxiway Rehabilitation • Apron Rehabilitation • Utility Design • Regulatory Permitting 	<ul style="list-style-type: none"> • General Engineering Consultant • Airport Master Plan • LEED Consultant Services • Regulatory Permitting • Utility Design 	<ul style="list-style-type: none"> • Transportation Planning Consultant Services • Traffic Analysis • Airport Signage Inventory • Signal Warrant Analysis • Civil On-call role 	<ul style="list-style-type: none"> • Runway Lighting at JFK • Rehabilitation of Runway Bridges • Taxiway Rehabilitation at JFK and LaGuardia • On-call Airfield Electrical • Regulatory Permitting • Utility Design 	<ul style="list-style-type: none"> • Program Management • Taxiway "S" Bridge Lead Designer • Extension of staff and procurement support • Sustainability • Regulatory Permitting

We see tremendous mutual benefit from on-call contracts such as these, especially for our aviation clients. It provides a mechanism for us to address your challenges. Our goal is to become a trusted advisor for our most important clients and we accomplish this by having the opportunity to work with our clients to develop projects and programs that seek to satisfy our clients' needs by providing the opportunity to engage with all of our company's resources.

During the life of a GEC contract, there may be a number of minor type tasks being requested. Our team is organized with the ability to respond to such tasks, and apply the same approach and management style to the larger tasks. John Neff, our project manager, will determine the most efficient process for these smaller work authorizations. He has the ability to waive some details to keep the response simple and effective while employing a process that meets your expectations. HDR continues to build on this highly optimized platform by constantly looking for ways to improve efficiency to minimize your capital commitment.

As your general services partner, we commit to:





Approach to Continuing Contracts

As we begin each new assignment for a contract, John Neff will meet with your personnel who may have specific needs through this contract, to perform a "Work Order Initiation/ Discovery." The purpose of this initial step will be to gain a full understanding of the particular assignment, from a broad-based understanding of the scope, funding sources, stakeholders, to confirmation of the schedule drivers and unique skill sets or capabilities required (software, equipment, training materials) from the onset. This information will allow us to help prepare/finalize the specific Task Work Order Scope, and subsequently prepare the fee proposal using the most appropriate HDR and team partner personnel that may be required for the assignment. The importance of a well thought out Work Order Initiation/ Discovery process is critical to avoiding miscommunications or omissions in the scope and fee that put specific objectives that you wish to meet at risk. As Project Manager for our BCAD and FXE GEC contracts, John has the background and experience to immediately respond to the highly specific and sometimes unique/specialty challenges of an aviation facility.

Task Order Development

First and foremost, HDR is client-driven. We assign adequate front line staff who can professionally respond to any request for service. Our Project Manager (PM) John Neff, is the point of contact and works directly with City staff. As a client manager, he will be responsible for assigning professional staff to deliver the services that achieve your needs and expectations.

When presented a project for the airport, we will develop a proposal for approval that commits named resources to insure deliverables meet expectations within the time limit requested. Based on the complexity of the project, this can take from one day for solely HDR-staffed projects to a week to obtain commitments from our subs. This is commonly a draft scope for review and acceptance by the owner. With an acceptable scope and delivery schedule, we create a work plan and assigns staff to deliver the project. The staff selection is local, however, based on availability and expertise; national staff may be included to supplement/improve the team.

John will start each project with an internal kickoff team meeting and makes assignments based on schedule expectations and staff availability. At this time John will also assign the Quality Review staff for the project so that they are engaged from the early steps of the project, not just at the end. This approach allows our team to form early on in the process and not once we have a Notice to Proceed.

Task Order Delivery

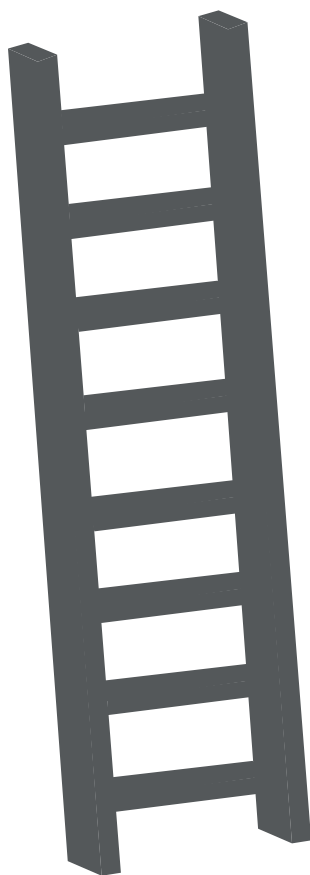
Working under a GEC, the Consultant must be prepared to assist the Owner throughout every phase of a project. We represent you through every phase of delivery. From overseeing the performance of surveys and geotechnical investigation, through preparation of construction documents, serving as your representative with permit agencies, performing cost analysis during bid phase, and finally providing

As an added value service, we will continue to work with you to see how the infrastructure functions overtime, we can assist with Asset Management, learn from design and inform future decisions.

Construction Administration and project close-out. This relationship is based on trust and we understand that every project is important and deserves the same attention to detail. Our quality program monitors design through each design phase. Our PM is a full participant in every project and communicates with the Owner during every stage. He makes sure the right staff are available at any Owner meeting from predesign to Final acceptance.

Preparation of Bidding / Construction Documents

A goal of any airport facility is to expeditiously complete project design while providing a quality product that requires minimal requests for additional information during the bidding and construction phases. To achieve this goal, we implement the following design deliverable submittals to allow adequate coordination between City staff, project stakeholders and our project team. We recognize that every project is different and at times grant requirements can result in schedule constraints. Our team will be flexible on this approach, understanding that one size does not fit all.



BIDDING DOCUMENTS

FINAL CONTRACT DOCUMENTS

100% Design Documents

PERMIT DOCUMENTS

90% Design Documents

DESIGN DEVELOPMENT

60% Design Documents

PRELIMINARY DESIGN

30% Design Documents

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 have the potential to severely impact 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 is 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 your city through establishing a reliable budget at project start for proper financial planning, to allow the City of Pompano Beach 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 advance the design based on comments generated from project stakeholders and regulatory agencies after review of the 60% Design Submittal. During this phase we will incorporate all details necessary to clearly provide resolution to comments and to support decisions reached regarding specific aspects of work to be completed. Constructability reviews will also be performed at this time to assess the completeness and

clarity of all required information as it pertains to base maps and construction control. 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. We 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 our 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. We 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.

Permit Applications

We have become highly proficient in obtaining permits and fully understand the processes of all local regulatory authorities having jurisdiction. The task of obtaining permits starts in predesign by communicating early and often with each required agency. The permitting effort is closely tracked and monitored throughout a project so that milestones that are permit-dependent are not compromised.

Our team excels in stormwater, water and sanitary sewer projects with Keith and Associates as well as CRJ having the staff to supplement when needed. Every one of our team members has worked closely the City of Pompano Beach, Broward County Water and Waste Water Services, the Broward County Health Department as well as with Broward County Environmental Protection and Growth Management. A wealth of Engineers with years of experience working with the local agency results in a trust that helps move the paper thru quickly.

To demonstrate our experience in local permitting process and procedures, the following table shows approvals that may be required, and the typical time it takes to acquire the needed permits.

AGENCY	PERMIT TYPE	EST. DAYS
South Florida Water Management District	Consumptive Water Use	60-90
	Environmental Resources	60-90
	Right of Way Occupancy	60
Broward County	Building Permit	30
	Domestic Wastewater Collection/Transmission System	30
	Class I-VI	30
	Industrial Waste	30
Broward County Water and Wastewater Services	Utility Connection Permit	30
Florida Department of Health	Water Main Extension	30
	Water Supply/ Treatment	30
Florida Department of Environmental Protection	Title V Air Operating	60
	NPDES	30
	Underground Injection Control Class I and V	60-160
	Domestic Wastewater - Minor and Major Modifications	30-160
FEC/CSX	Facility Encroachment Permit	n/a
Florida Power & Light	Coordination only	n/a
Florida Department of Transportation	Utility Permit	90
U.S. Army Corps of Engineers	Nationwide Permit (NWP)	120



Construction Engineering

With Keith and Associates and CRJ we have an outstanding selection of highly respected staff concentrating on the post-award stages. It is truly a seamless function to provide all phases of services in association with HDR. We have worked hand-in-hand for many years and have perfected the process of managing Contractors and projects. The HDR aviation team is known for responding to over 90% of RFI's the same day as well as 90% of submittals within a couple days. Our ability to quickly react to challenges separates this team from the competition. Modifications to design average less than a day to keep the Contractor on schedule. We also work closely with Contractors to insure no challenges in certifications for permitted work. Our engineer consider approving a Contractor's Pay Request as a vital function. We will work with the Contractor early to provide a smooth and efficient approval process.



Project Close-Out

HDR is a trusted verifier that completed work meets all the aviation or other agency standards. Our PM will attend any preliminary or final acceptance of projects and oversee that any generated punchlist is completed the first time. As our project manager only lives minutes from the airpark, he will make periodic site visits to head off any actions that are substandard or not per code or plans. Part of this process includes photo documentation of the project from predesign to final acceptance.

We also begin addressing project close-out early in the construction phase. We will lead pre-activity meetings with the Contractor so that they are fully knowledgeable of their responsibilities to not only perform, but to properly document and quantify work.

This approach has made us the top-tier engineer for aviation projects in Broward County. We take ownership of our work and strive to provide nothing less than excellence.



Approach to Specific Types of Work

Through our experiences serving as GEC for our aviation clients, we have developed an unmatched understanding for the breadth of services that may be required. We provide the depth of technical staff to provide any service required and the technical expertise to solve your most complex problems.

Air Park Master Plan

Review and updates to the current Master Plan and CIP would be a team approach falling under our Planning Lead. John Neff and John McPherson would consult with the City and the Airpark regarding their goals from an update as well as input for future projects that align with the vision for the airpark. We understand the critical nature that a master plan and it's associated Airport Layout Plan (ALP) in the award of FDOT grants and funding in general.

Our team has closely reviewed the selective alternatives from your 2008 Air Park Master Plan Update. This reinforced 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.

At HDR we understand that General Aviation (GA) airports are faced with significant operational and development challenges in today's ever-changing regulatory and economic environment. GA airports are often faced with increasing regulatory scrutiny, decreased funding, fluctuating activity and demand, various levels of public and/or political support and an overarching goal to become or remain financially solvent. Successfully addressing these multi-faceted and dynamic challenges during the development of an airport master plan is an effective way to clearly outline a strategic growth and development plan that will meet the long-term goals of the airport owner and local community.

The solution to these challenges is to apply a dynamic approach to airport master planning and development that focuses on the basic principle that an airport, like any other business, must have a clear and responsive plan to address various future conditions, guide development actions, and maintain flexible implementation strategies in order to ensure success. We will assist you in producing revenue models, land development alternatives, airspace analysis tools and flexible forecasting projections which we will be able to adjust as your needs and various market conditions change. This approach provides you with ongoing management tool, rather than just providing static plans that are not easily adjusted to changes at the airport and just sit on a shelf. This approach keeps the Airport Master Plan flexible, giving you the ability to model future changes and adapt implementation strategies to better plan for changing future conditions and maximize the economic value of your projects.

We continue to improve this approach through our experiences providing the professional expertise and proven experience to address these master planning challenges at airports across the country. Our team has completed numerous airport master plans throughout the U.S.



Air Field Pavement

The key to any successful airfield rehabilitation/reconstruction project is to provide a design that addresses the long-term life while minimizing the impacts to airport operations. We will follow the following steps for each assigned airfield civil project to develop the optimum design based on key factors.

Pavement Analysis

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



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, including concern from the high potential Foreign Object Debris (FOD). Additional FOD potential can result from ragged spalling at the edges of the numerous working cracks.

Once we have an understanding of the existing pavement conditions and how a section has performed over its life cycle, we will then use this information in determining final pavement design section and rehabilitation strategy.

Pavement Design Sections

We will begin pavement design by first working directly with staff to perform an analysis of aircraft traffic fleet and annual departures over



the forthcoming 20 years. This step has increased importance when using the FAA design procedures as implemented in the 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 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. We have a proven history of coordinating with the FAA in development of a final pavement section which meets the intent of the FAARFIELD software but reflects historic performance of pavement sections at your airport and planned operations.

Concurrently, we will review historic and perform additional required geotechnical Investigations to estimate subgrade strength value. Once we have developed this required information we will then input all information into FAARFIELD to determine a final pavement design section.

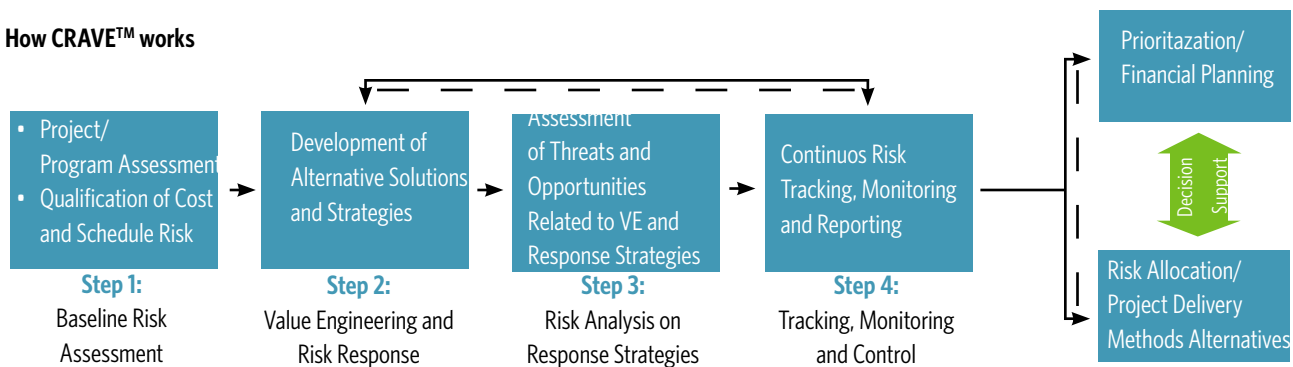
Rehabilitation Strategy

Now that we have a full understanding of the project design requirements, the final step will be to evaluate and develop a rehabilitation strategy based on minimizing overall project cost and impacts to airport operations while providing a quality final product. The strategies could include, but not limited to the following:

- Conventional Cold Mill, Crack Seal and Overlay.
- Cold Mill, Asphalt Rubber Membrane Interlayer (ARMI), and Overlay.
- Full Depth Reclamation (FDR) and Overlay.
- Superpave HMA System with Modified Performance Grade (PG) Asphalt Binder.

To assist in selection of a preferred strategy, a life-cycle cost analysis of each alternative will be conducted that considers all relevant costs. We will integrate cost-risk analysis (CRA) and value engineering (VE) throughout this process, better known as CRAVE™. HDR's CRAVE™ process will help you effectively deliver projects by continuously accounting for and actively managing risk and develop VE recommendations. The process fits perfectly with our airfield design related projects as it encourages early planning; builds confidence and credibility in a project's plans and estimates; develops targeted mitigation strategies for all anticipated threats; better allocates risks and identification of project delivery methods; and ensures transparency, integrity and accountability throughout the project lifecycle.

How CRAVE™ works



Construction Safety and Phasing Plan

Throughout the design process we will be developing and optimizing the construction safety and phasing plans. For a successful project, this plan must be more than just a "check-the-box" document to meet FAA requirements. This needs to be a living document that serves as a communication tool between the PBCDO, selected contractors, and our design team. Only by working together can we minimize disruption to airport operations, while allowing for contractor efficiency in order to minimize construction time and cost.

We have extensive experience in not only developing construction phasing plans for major airfield construction and

rehabilitation projects but also an in depth understanding of the development of the FAA AC's that govern. This experience includes development of the FAA required Construction Safety and Phasing Plan (CSPP) for review and approval for some of the most complicated airfield projects in the South Florida area.

On the Terminal 4 Apron Civil Works project completed by HDR, the major limiting factor for the project was that all proposed construction must be completed while maintaining operations to the existing terminal and concourse. Led by our Design Manager, Tim Fish, we designed the project and displayed aircraft movements in relationship to construction work zones utilizing AutoCAD Civil 3D. We then sought construction sequencing input from the construction management team and added construction scheduling activities and milestones to the 3D environment, creating a 4D simulation. The team used this 4D simulation in several phasing workshops held with client and stakeholders to determine a better construction phasing approach. Stakeholders could easily see how everything would fit together during construction. This communication approach was the key to gaining buy-in from stakeholders, including the airlines, the airport's operations and maintenance departments, and the FAA.

Airfield Geometry, Lighting, Signage

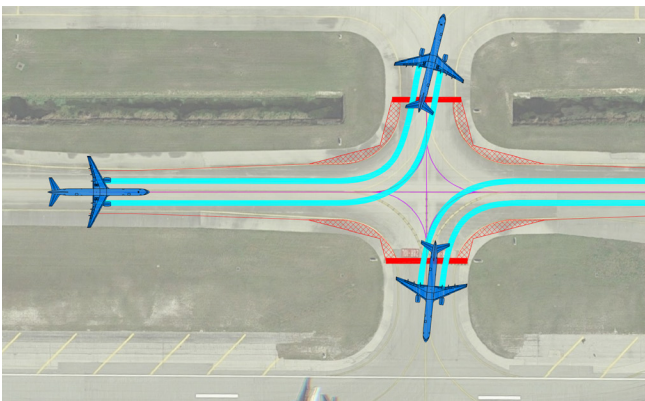
Airfield Geometry Design

One of the critical early tasks for any taxiway project will be confirmation of the airfield geometric requirements, including taxiway centerline to runway separation, pavement and shoulder widths and fillet geometry taking into consideration the current (FAA) Taxiway Design Group (TDG) criteria as established in FAA AC 150/5300-13 A Change 1.

Airport Design Circular 150/5300-13A Change 1 has the potential to have the greatest impact on overall design as it addresses the following elements of airfield design:

 Taxiway radii and tapers	 Pavement marking
 Taxiway lighting and signage layout	 In-pavement taxiway centerline lighting
 Runway/taxiway, and taxiway/taxiway separation by virtue of new Taxiway Design Group (TDG) designations	 Runway Protection Zone (RPZ) allowable land use
	 Runway and Taxiway Safety Area transverse grading criteria

Determining the transition locations for the proposed tapers, particularly when taxiway turns are located in close proximity is critical. We will utilize aircraft modeling software to optimize these transitions based on aircraft fleet mix in an effort to minimize excess pavement, maximize constructability, and analyzing compatibility with taxiway edge lighting standards.



Key members of our team have been actively involved in the development and review of some of these new criteria by virtue of leadership and participation in AAAE, ACI-NA, and ACC committees. Tim Fish assisted the aviation consulting industry's review efforts of the new Airport Design AC 150/5300-13A Change 1 through his leadership role with the Airport's Consultant Council (ACC). Active participation in these committees coupled with conference attendance enables our key staff to have the latest intelligence and keep pace with updated FAA standards and regulatory changes that impact airport planning, design and construction.

Airfield Lighting & Signage

The condition of duct-banks, light can bases, 5KV power cable, and airfield lighting vault regulators must all be considered during the design process. Many time airfield pavement projects provide the opportune time to upgrade these systems, if necessary, to current FAA standards. Furthermore, taxiway geometry adjustments may require the relocation of airfield lighting and signage. Our Team's electrical engineering staff, led by Hillers Electrical Engineering,



has recently worked together to complete exactly this type of work on a number of taxiway rehabilitation projects. This work effort also includes evaluation of replacement of existing light fixtures with LED fixtures in order to reduce energy costs, provided that LED's can be installed compatibly with the existing taxiway fixtures adjacent to the project limits.



Noise Abatement / Mitigation Studies

The purpose of this task is to prepare estimated noise contours for existing conditions and future conditions associated with aviation activity. This effort includes:

- Development of baseline noise contours (existing conditions)
- Development of long term (10- and 20-year) noise contours

This information will be utilized throughout the duration of the contract to analyze impacts of proposed improvements. We'll work directly with your city staff to develop a community outreach program, which will include updates to the noise committee,

outreach programs to local communities and outreach materials for pilots and the community.

Plan Review

Performing plan review of tenant and other private developments is a service that HDR has provided to a number of our aviation clients. We understand the importance to provide knowledgeable staff to review these improvements in relation to FAA Advisory Circular and local, state and federal regulations. The key to successfully perform the required reviews, assemble all comments and develop resolution is COMMUNICATION. Our Project Manager, John Neff, will be directly responsible for overseeing this communication.

Both John Neff and Tim Fish currently provide this service for the Republic Airport in Long Island New York on behalf of the New York State Department of Transportation. Through this experience they have developed a communication approach where first we meet with you the airport to understand concerns that you may have with the proposed development. After having this understanding, John will assign the proper staff to perform detailed reviews for each specific scope of work within the proposed improvement. Once each reviewer has completed their full review, John will lead a group discussion of this team, along with airport staff so that as a team we can categorize the review comments by level of effort for the developer to address and concern to you. We have found this allows us to quickly work through many review items that are general in nature and focus as a team on those most critical so that resolution can be achieved as quickly and efficiently as possible.

The key to successfully perform the required reviews, assemble all comments and develop resolution is COMMUNICATION. Our Project Manager, John Neff, will be directly responsible for overseeing this communication.

Grant Support Services

HDR has assisted our clients in the successful obtaining and closing out over 45 FAA grant applications. Through this experience we understand the grant assurance requirements for both the FAA and FDOT. We understand the importance of communicating on a regular basis with you and these agencies so that grant funding is not jeopardized. Our team also provides you with staff experienced in providing DBE compliance monitoring and construction oversight in compliance with grant requirements. Our PM will clearly communicate these requirements to Airpark staff and the selected contractors throughout the design and construction phases so that you receive every dollar of support that your facility deserves.

Stormwater / Drainage Improvements

Together our team brings unsurpassed recent and relevant experience performing detailed analysis to determine correct size and configuration for proposed systems to serve airports. Important to this process is designing a system to not only meet the needs of today but flexible for tomorrow and providing maintenance access points to the systems at locations which minimize impacts to airport operations. We also understand that water bodies can be a major bird attractant and overall safety issues on an airfield. With our in depth understanding of these and other items specific to our aviation clients allows us to provide stormwater solutions that minimize potential impacts to your facility.

Stormwater design and permitting drives project design schedules on most projects. Knowing this we focus on this design very early in the design process and it is typically one of the first design items advanced to permit level documents. Before advancing design we will meet with the permitting agencies so that we are all clear on the project scope and impacts. In this meeting we can determine key issues for these agencies so that we address them in our initial design limiting the number of requests for additional information during the permitting process.

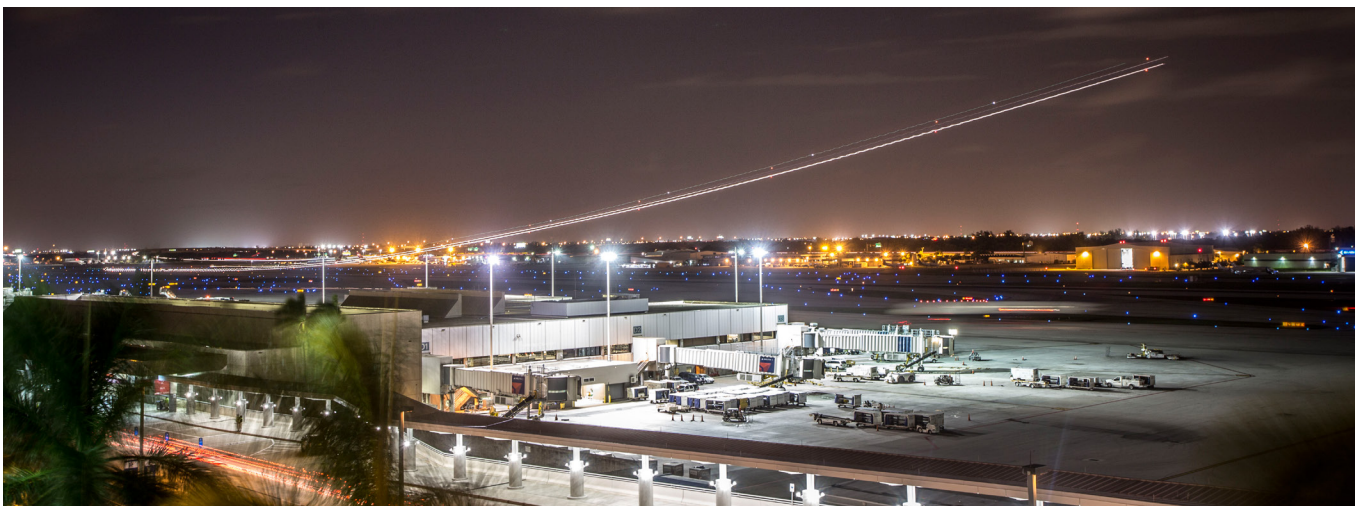
With this understanding we will begin modeling and analyzing the impacts of proposed projects and design the require conveyance and treatment systems required. At this time, our experts also will analyze potential sea level rise issues that may arise in the future and work directly with the Airpark and permit agencies to provide the most resilient, cost effective design solutions.

Air Space Studies

We will begin an airspace study by first studying the arrival and departure airspace routes and current approach and departure procedures Noise abatement procedures, if any, and potential airspace modifications associated with the FAA's South Florida Metroplex initiatives will also be inventoried. We will conduct interviews with Air Traffic Control Tower (ATCT) personnel to gather pertinent information related to airpark operations, including but not limited to runway use, runway balancing, and taxiway routing commonly used. Our team will conduct field observations (up to 16 hours) from the ATCT and other FAA facilities of airfield operations. These observations will include airfield taxi patterns, runway use, taxiway use, and other related air traffic control procedures.

With this understanding, we can then analyze further potential impacts to your airspace associated with ongoing improvements or anticipated changes to operations. We will implement the latest in GIS technology which will allow us to show you first hand potential impacts as together we work through solutions. We are also very familiar with FAA Form 7460 requirements having completed them for numerous construction projects throughout South Florida.

Stormwater design and permitting drives project design schedules on most projects. Knowing this we focus on this design very early in the design process and it is typically one of the first design items advanced to permit level documents.



Project Management Plan

Our project management approach is geared towards the successful and efficient implementation and completion of tasks, and begins with the development of a Project Management Plan (PMP) which includes the following components: Operations Plan, Communications Plan, Production Plan, and QA/QC Plan. It is based on early identification and resolution of project issues and meeting established goals.

The PMP will be used to confirm that all project team members understand your project requirements, and that all parties are starting the project with the same understanding. By working through the project planning process as a team, the project goals and objectives will be better defined and clearly understood.

The PMP also will allow the team to identify issues that may be encountered throughout the duration of the program. Identifying issues during the planning phase allows a more proactive approach to be taken, and can avoid the costly delays frequently incurred when forced to use a reactive approach.



Schedule and Cost Controls

For a project to be considered a success, work must be completed on schedule, within budget, and error free. At the start of each project, our project manager prepares a Project Management Plan (PMP) to document all information necessary to execute a successful project.

The PMP is an internal document that serves as a road map for the project team. The PMP defines project resources and includes client contact information, project description, scope of work, deliverables, budget, administration procedures, and filing requirements. It also covers communication methods, such as use of an e-Room, intranet sites, electronic documentation, written documentation, and methods of handling media requests for information. The PMP also includes a project-specific Quality Management Plan which helps maintain high levels of quality in our work efforts.

We use a combination of company-developed tools and procedures for delivering quality and consistency in our work, managing internal tasks, maintaining communication, and staying ahead of schedule and under budget. We are always willing to incorporate new methods as our clients and project work dictates.

Operations Plan

The Operations Plan integrates tracking and monitoring of the approved scope, budget, and project schedules for each Project Assignment, 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. HDR Project Task Managers use state-of-the-art tools which provide critical, real-time project information, including labor costs, expenses, staff availability and assignments, accounts receivable, QC, scheduling, earned value reports, and project reviews, all available electronically, in an Internet-based platform. For all project assignments, we will provide City staff with a monthly Project Status Report which will identify updated schedules (as appropriate), budget analysis, and projected monthly work tasks.

Task Order contracts often demand periods of high activity, with multiple assignments running concurrently or at different points along the project pipeline. We will work with your project managers to provide rapid response during multiple assignments and ensure that schedules are met. John Neff will work with Project Delivery Managers to coordinate all activities, and will delegate tasks, as needed, so that we can advance multiple commitments simultaneously and effectively.

Should the need arise for rapid response to a sudden occurrence; we will mobilize staff from our local office to address site conditions and provide initial response within two hours from the request for assistance.

HDR measures progress toward all project objectives in real time, which allows us to reach the objectives and if necessary, take appropriate preemptive actions. This continuous process anticipates and prevents potential problems, to promote projects that stay on schedule.

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

Microsoft Project or Primavera software will be used to establish the master project schedules 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.

Communications Plan

The Communication Plan identifies the relationship of all key project stakeholders, and establishes the protocol for team communications and documentation. Contacts will be established for the City of Pompano Beach, the Airpark, external stakeholders and the HDR Team, and all communications will be via that established conduit, thus eliminating duplicated or contradictory communications and directives and ensuring that all decision documentation is collected, stored, and acted upon as appropriate.

HDR uses state-of the industry electronic communication tools, including ProjectWise document management, 3-D CADD capabilities and other tools. ProjectWise is an internet-based document management tool that uses a secured internet portal for viewing information. HDR uses ProjectWise to manage electronic documents and facilitate the sharing of work among offices, subconsultants and clients. With ProjectWise, City staff can access updated project information at any time for any ongoing projects under this contract.

Communication

Close communication with Operation and Maintenance staff at the beginning and throughout the design is particularly important on an operating airport.

Production Plan

The Production Plan identifies the task scope, task staffing plan, CADD standards, project schedule and critical path, and any other key assumptions, concerns, and risks to be addressed. The staffing plan includes assignments of appropriate team members matched to the unique requirements of each task, utilizing HDR's work planning tools to manage staff workload and availability. Work products will be developed by establishing an optimum workload balance between senior professionals providing guidance and oversight, with the support of other professional and technical staff as dictated by the scope of each assigned task.

Quality Assurance Plan

This team is committed to excellence through the promotion of quality-oriented processes that delivery technically-sound and superior products. We are skilled with the policies and procedures; client and industry design standards; and federal, state, city, and county requirements. All deliverables will be submitted after undergoing thorough quality control reviews by a Quality Management Team whose members will be selected by our Quality Program Director Melanie Fowler to fit the project's specific needs.

We will develop a detailed Quality Management Plan tailored to meet the Cities requirements. The plan will be documented in the PMP and distributed to all team members. The Quality Management Team will perform structured, independent quality reviews of the work at each milestone.

The 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 reviews and inspection reports, is submitted to the project manager. Audits are performed to verify that subconsultants are adhering to quality requirements.

The Quality Management Plan will include 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 QA Review also includes drafting and electronic drawing files to check that our team's drafting services and drawings are **consistent with the City of Pompano Beach CADD requirements**, as applicable.



Project Team Form



COMPLETE THE PROJECT TEAM FORM ON THE ATTACHMENTS TAB IN THE EBID SYSTEM. PROPOSERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND INCLUDE THE FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB FOR THE RLI IN THE EBID SYSTEM.

PROJECT TEAM

RLI NUMBER L-54-16

Federal I.D.# 47-0680568

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-In-Charge	<u>Will Suero, PE</u>	<u>25</u>	<u>B.S.</u>
Project Manager	<u>John Neff, PE</u>	<u>40</u>	<u>B.S.</u>
Asst. Project Manager	<u></u>	<u></u>	<u></u>
Other Key Member	<u>See attached.</u>	<u></u>	<u></u>
Other Key Member	<u></u>	<u></u>	<u></u>

SUB-CONSULTANT

Role	Company Name and Address of Office Handling This Project	Name of Individual Assigned to the Project
Surveying	<u>See attached.</u>	<u></u>
	<u></u>	<u></u>
Landscaping	<u></u>	<u></u>
	<u></u>	<u></u>
Engineering	<u></u>	<u></u>
	<u></u>	<u></u>
Other Key Member	<u></u>	<u></u>
	<u></u>	<u></u>
Other Key Member	<u></u>	<u></u>
	<u></u>	<u></u>
Other Key Member	<u></u>	<u></u>
	<u></u>	<u></u>
Other Key Member	<u></u>	<u></u>
	<u></u>	<u></u>

(use attachments if necessary)

PROJECT TEAM

PRIME

Role	Name of Individual Assigned to Project	Number of Years Experience	Education, Degrees
Principal-in-Charge	Will Suero, PE	25	B.S, Civil Engineering
Project Manager	John Neff, PE	40	B.S, Civil Engineering
QA / QC Manager	Melanie Fowler, PE	21	B.S, Environmental Engineering
Planning Task Leader	John McPherson, AICP	29	M.A., Plan Sciences B.A., Mathematics
Design Task Leader	Timothy J. Fish, PE	14	B.S, Civil Engineering

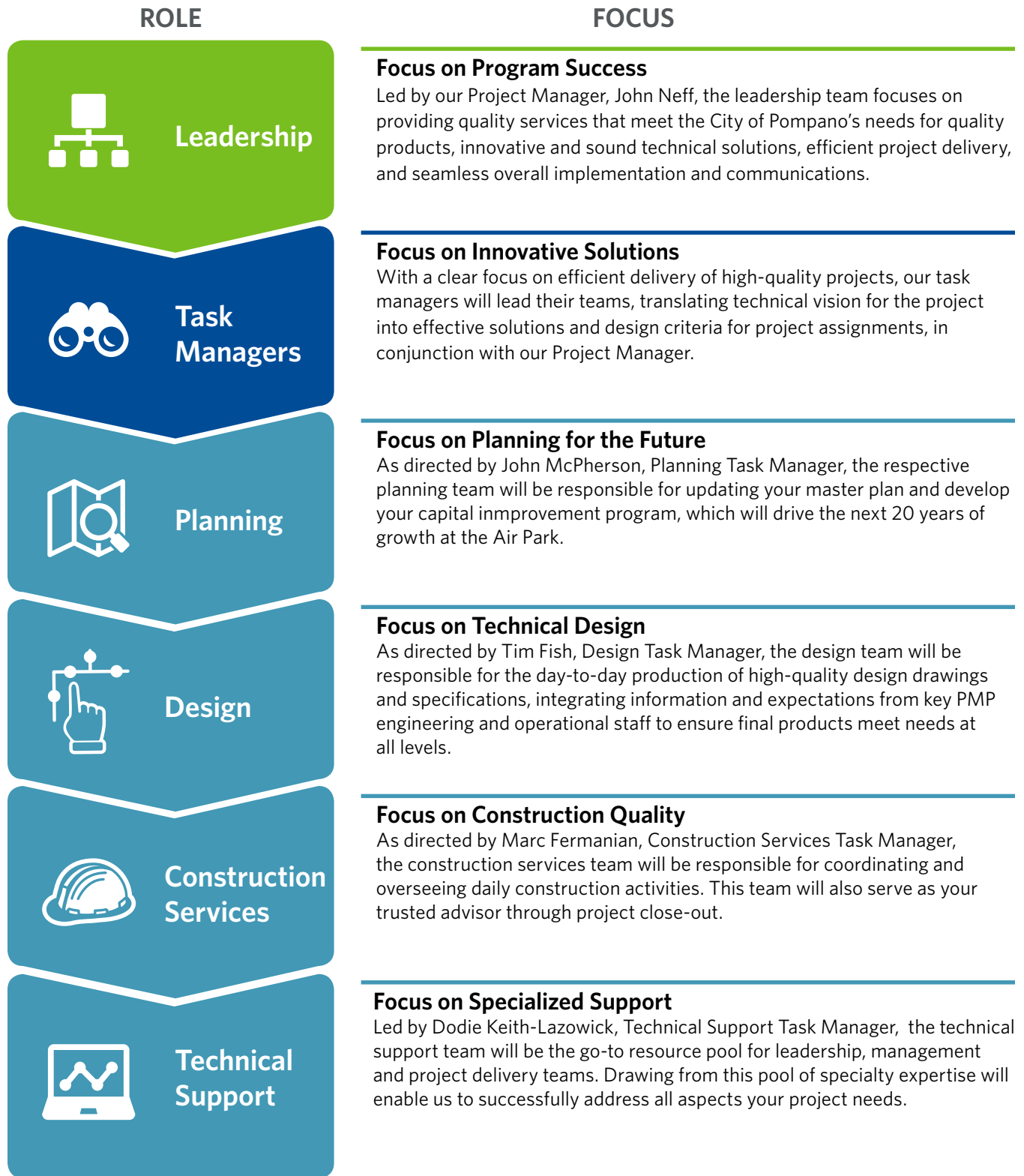
SUB-CONSULTANT

Role	Company Name and Address	Name of Individual Assigned to Project
Survey, SUE, Utilities Coordination, Construction Services	Keith and Associates, Inc. 301 E. Atlantic Blvd Pompano Beach, FL 33060	Dodie Keith-Lazowick, PLS
Construction Services	CRJ and Associates, Inc. 2699 Stirling Road, Suite B-201 Fort Lauderdale, Florida 33312	Marc Fermanian, PE
Electrical	Hillers Electrical Engineering, Inc. 23257 State Road 7, Suite 100 Boca Raton, FL 33428	James Kappes, PE
Geotechnical and Materials Testing	Tierra South Florida, Inc. 2765 Vista Parkway, Suite 10 West Palm Beach, FL 33411	Raj Krishnasamy, PE
Noise Mitigation	The Jones Payne Group, Inc. 7040 Seminole Pratt Whitney Road, Suite 25-26 West Palm Beach, FL 33470	Diane Carter



F

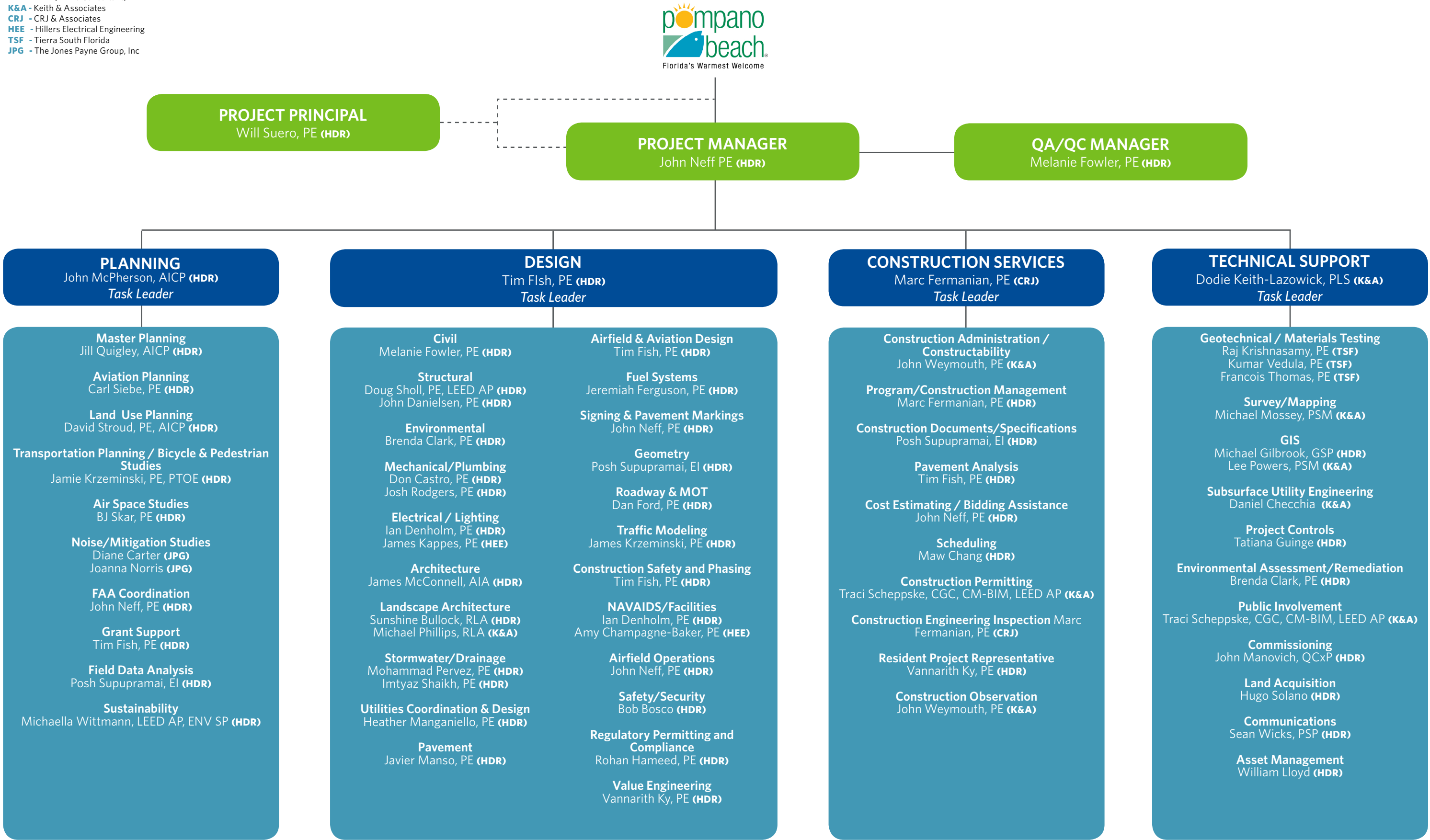
Organizational Chart



The Organizational Chart that follows provides a detailed description of our proposed project team.

LEGEND

HDR - HDR (Prime Consultant)
K&A - Keith & Associates
CRJ - CRJ & Associates
HEE - Hillers Electrical Engineering
TSF - Tierra South Florida
JPG - The Jones Payne Group, Inc





G

**Statement of Skills and
Experience of Project
Team**

Statement of Skills and Experience of Project Team

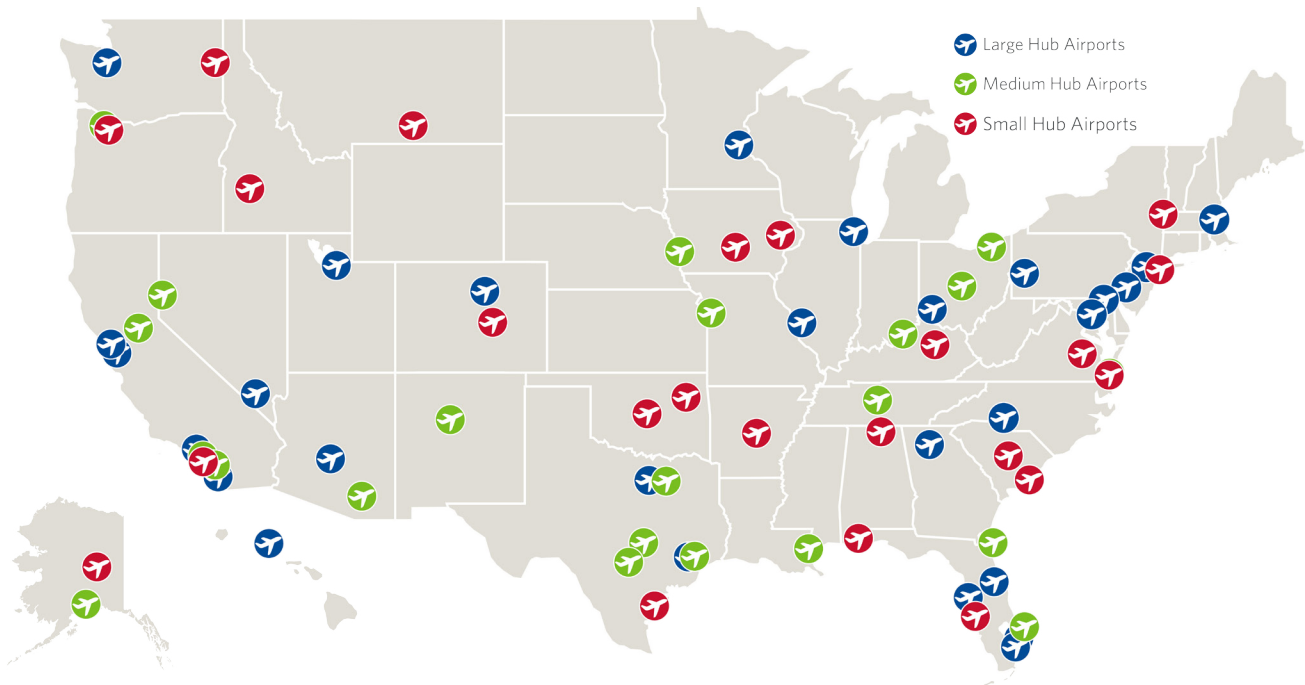
To successfully deliver your airfield program, we have engaged the very best people our industry has to offer. More than 10,000 strong, our team offers the depth of resources necessary to accomplish any task that may arise. We bring experts known to you; experts who have successfully worked together.

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.

We illustrate 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 Pompano Beach and PMP.

Locally, the HDR Fort Lauderdale office operates as an Aviation Center of Technical Excellence. This provides the PMP with full-time, dedicated aviation professionals who stay current in the industry and are capable of providing services need to deliver task orders under this contract.

Unmatched experience at aviation operations and planning will result in efficient designs that leverage your infrastructure.



Team Members

Our team's structure provides clear roles, responsibilities and lines of authority and a depth and breath of technical experts to deliver any project assignment. We have worked with our proposed team members in the past, achieving success on various projects. We chose to partner with these firms based upon the following criteria:

- Prior successful work with the City of Pompano and at Pompano Air Park
- Technical Experts in areas necessary to successfully deliver projects in support of your CIP
- Knowledge of project areas and issues
- Prior successful performance on complex projects with HDR
- Support of the City of Pompano's local, small and minority business goals

All team members are highly respected in their fields and bring the City of Pompano Beach and PMP the expertise needed to deliver on your needs.



Keith and Associates will prepare and review plats for on-site developments. As a local firm they bring highly experienced surveyors that have worked at the airfield in the past. Our PM worked with WHS for years doing this same service at the Airpark. HDR brings national aviation resources and the strength of a 10,000 member firm to serve your needs professionally in a cost effective manner. HDR is teaming with Keith and Associates, a local Pompano Beach Engineering firm, whom our PM has worked with for almost 20 years. In fact they are mere blocks from City Hall. With a strong aviation pedigree, they perfectly complement HDR with local talent in surveying, SUE, permits and CEI support as well as additional depth in engineering.

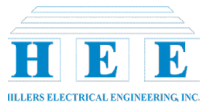
They have teamed with HDR on a variety of contracts and projects, including our General Engineering contract at the Fort Lauderdale Executive Airport. We are also working together on the Southwest Airlines Terminal One Modernation project at FLL.



CRJ's experience in the aviation industry has been well regarded in the aspect of Construction Engineering and Inspection (CEI), whether the project involves fixed based operators plans for development, aircraft apron and taxilane area, taxiways or even runways. CRJ has been a South Florida source for providing such services with excellent success for a decade.



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 has served as the geotechnical engineering firm of choice for many of HDR's completed airfield design projects including the Terminal 4 Apron Expansion and Terminal 1 Modernization program at FLL.



Hilliers Electrical Engineering specializes in electrical engineering, design and control application programming. Hilliers have served as the aviation electrical engineer of choice throughout South Florida including the recently completed Terminal 4 Apron Expansion project at FLL.



The Jones Payne Group, Inc. is an industry leader in providing a full range of professional services to airports and airport-sponsored noise mitigation programs. Since 2008, they have been providing noise mitigation consulting services to Fort Lauderdale-Hollywood International Airport, where they are responsible for an array of services to include noise mitigation planning, program management, design, construction management, community outreach, public use website, and information management and GIS services.

Leadership

The HDR Team will be lead by our Project Manager, John Neff. John is a Civil Engineer with experience in all manner of Civil and Structural projects and a passion for aviation. A Pompano Beach resident since 1999, he lives next door to the Air Park. John is well versed in managing GEC contracts at Ft. Lauderdale-Hollywood International Airport and North Perry for 18 years, St Lucie County International Airport for 7 years, and Fort Lauderdale Executive for the past 2 years. During this time, he delivered every imaginable type of project from simple security to major Runway and Taxiway Pavement to complete Apron rework. Over 100 completed work authorizations for clients representing all things aviation, delivered on budget and schedule. Many of these projects were aided and supported by the same project team for both design and construction services. This team understands operations and safety with minimal impact to aircraft movement. As such, John will understand your needs and work with you to identify viable options to deliver simple to extremely complex projects.

John will be supported by Will Suero, PE, Project Principal, who will provide overall corporate support and oversight to the project team. Will has more than 20 years of South Florida experience, including working with John on the recent Taxiway Charlie project at Ft. Lauderdale International.

Melanie Fowler, PE will serve as the QA/QC Manager and oversee the Quality Program. Melanie has 21 years experience in the project management and design of aviation projects, including serving as the QA/QC Manager on the recently completed Terminal 4 Apron Expansion and Civil Works project at Ft. Lauderdale International Airport.

John Neff, PE, Project Manager

John brings over 40 years of experience managing diverse projects across the country and around the world. He has served in a key role for more than \$20 billion in construction projects, much of that for aviation facilities.



As project manager, he will be responsible for the following activities:

- Interfacing between the City of Pompano and the HDR Team
- Overseeing project-level scoping
- Managing project team resources
- Implementing uniform quality management procedures
- Communicating project ,schedule, and budget status
- Participating in coordination meetings with regulatory and stakeholder groups

John has lived next to your Air Park in Pompano Beach since 1999 and is based in HDR's Ft. Lauderdale office. He will be easily accessible and available as this project will be his primary responsibility. He brings the knowledge and experience to you in order to make this project a success. Most recently John has provided Construction Administration services for both the Terminal 4 Civil Works and Terminal 1 Modernization Program at FLL as well as for the Taxiway Sierra Rehabilitation project at FXE. In these roles, John has provided oversight on a daily basis and has developed an unmatched knowledge of the requirements to track required submittals and test as required per FAA Advisory Circulars so that any grant assurance measures are not only met but exceeded.

The following is a sample of related project experience:

- **FLL Terminal 4 Apron Civil Works**, Fort Lauderdale, Florida
- **FXE General Engineering Consultant**, Fort Lauderdale, Florida
- **FXE Runway 9-27 Sealing & Rehabilitation**, Fort Lauderdale, Florida
- **Runway Incursion Mitigation Program (RIM)**, Fort Lauderdale, Florida
- **FXE Taxiway Sierra Rehabilitation**, Fort Lauderdale, Florida
- **BCAD General Engineering Services**, Fort Lauderdale, Florida
- **FLL Taxilane Tango & Apron Rehabilitation**, Fort Lauderdale, Florida
- **18R-36L Runway Rehabilitation, North Perry General Aviation Airport**, Broward County, Florida
- **Administration Building, North Perry General Aviation Airport**, Broward County, Florida

Prior to joining HDR, John has worked on a variety of projects at your airport, including:

- Anthony Aviation Pump Station
- Reils on 5/23
- Taxiway Lima
- Taxiway M and RW 5 Hold Area
- RW 15/33 Rehabilitation
- Airfield Signage and Lighting Phases 1, 2, 3 and 4
- Runway 15/33 Pavement Study
- CIP and Noise Map Updates
- Suncoast Taxilane for American Flyers
- Naviads and Airfield Circuitry
- Parcel Y-Y Plat
- Parcel B-B Site Plan Review

He's also worked on other projects within your City, including:

- Hillsboro Inlet Park and Marina
- South Cypress Road median work
- Fire station 24 lift station and FM
- Pinnacle Village Apartments stormwater and Parking
- Atlantic Business Center site plans
- Pompano Park stormwater study
- SE 22 Avenue bridge build up



Will Suero, PE, Project Principal

Will Suero, PE will serve as the Project Principal and will provide overall corporate support and oversight to the project team.. He has 25 years of experience in the project management and design of transportation engineering projects including our Taxiway Charlie project at FLL. Will also has significant experience in a responsible role on Program Management/General Engineering Consultant services for Municipal clients as well as for the Florida Department of Transportation and on Transit Planning Studies and Programs.

The following is a sample of related project experience:

- **FLL Terminal 4 Apron Civil Works**, Fort Lauderdale, Florida
- **FXE Taxiway Sierra Rehabilitation**, Fort Lauderdale, Florida
- **FLL Taxiway Charlie**, Fort Lauderdale, Florida
- **BCAD General Engineering Consultant**, Fort Lauderdale, Florida
- **FXE General Engineering Consultant**, Fort Lauderdale, Florida

Melanie Fowler, PE, QA/QC Manager

Melanie will serve as the QA/QC Manager and oversee the Quality Program. She has more than 21 years of civil engineering experience, specializing in permitting, compliance review, stormwater management, utility design, and land development projects. She has provided project management, planning, design and construction phase services for various projects. She also has a thorough understanding of current FAA Design Standards, Technical Specifications, and Contract Documents. She is proficient in all elements of civil/site design and permitting for federal, state and local applications. Working closely with John, Melanie's main responsibility will be to oversee detailed independent review of all contract documents to guarantee that all of HDR's Quality Management System policy

and procedures are followed.



The following is a sample of related project experience:

- **FLL Terminal 4 Apron Civil Works**, Fort Lauderdale, Florida
- **FLL Taxiway Charlie**, Fort Lauderdale, Florida
- **BCAD General Engineering Consultant**, Fort Lauderdale, Florida
- **FXE General Engineering Consultant**, Fort Lauderdale, Florida
- **FLL West Side Maintenance Bid Phase**, Fort Lauderdale, Florida
- **Denver Airport Planning Office, DIA Equipment Needs**, Denver, Colorado

Task Managers

A team's success is driven by its leaders. We have tailored our team for this contract to include Task Managers for each of the major categories which we anticipate being required to successfully deliver your CIP. As you will see, each Task Manager has unique and directly relevant experience matching the role and scope of service for they will be responsible.

In the attached Organization Chart, key staff for different disciplines is presented for this GEC. Under the overall direction of the John Neff, there are 4 team leaders representing Planning, Design, Construction and Technical Support. Although many tasks only require a limited number of staff, the entire team is available for assignment.



John McPherson, AICP, Planning Task Leader

John's experience includes transportation planning and environmental analysis for transportation projects. He is well versed in transportation planning issues and techniques and has worked on and managed a variety of projects for cities, counties, and State DOTs. His responsibilities have included managing staff, subconsultants, and budgets; technical analysis and writing; and public and agency involvement. He has considerable experience with local, state, and federal laws and regulations and has the ability to take projects from the planning stage through environmental clearance. His background includes major environmental impact statements (EIS), environmental assessments

(EA), transportation plans and studies, airport master plans (AMP), city and borough comprehensive plans, coastal management plans, and other land use and environmental studies.

The following is a sample of related project experience:

- **Merrill Field Airport Master Plan (AMP) Update and Noise Exposure Plan Phase 1**, Anchorage, Alaska
- **Alaska Project Management & Engineering, Merrill Field Airport Master Plan Update Phase 2**, Anchorage, Alaska
- **Girdwood Airport Master Plan**, Girdwood, Anchorage, Alaska
- **Alaska DOT Port Lions Airport Master Plan**, Port Lions, Alaska
- **Kodiak Airport Master Plan Update**, Kodiak, Alaska
- **Iliamna Airport Master Plan**, Lake and Peninsula, Alaska

Tim Fish, PE, Design Task Leader

Tim has 14 years of combined experience in construction management and civil engineering design. He has experience in airfield design and planning, land development, environmental remediation, and geotechnical engineering design, for both public and privately held projects. In these roles, he has been responsible for contract management, sub-consultant/contractor oversight, project scheduling, regulatory compliance and permitting, surface water modeling, and design-build-operation management. Tim holds a Bachelor of Science degree in Civil/Environmental Engineering and is a Florida Licensed Professional Engineer.



Tim has served as the Project Engineer for the past two years on the Terminal 4 Apron Civil Works Project at FLL. In this role he has developed a working knowledge of the Operational, Safety and Security requirements at FLL by coordinating and working directly with BCAD Staff in the development of detailed Construction Safety and Phasing Plans that minimize impact to airfield operations for this heavily phased project. He also has a thorough understanding of the current BCAD Design Standards, Technical Specifications and Contract Documents and will bring his past airfield construction experience at large hub airports to the design team. His design experience includes utilizing the FAA FAARFIELD design software for the design of airfield pavements, utilizing Path Planner and AeroTurn to model and analyze aircraft movements in development of maintenance of traffic plans, design of storm, sanitary sewer and potable water systems, regulatory permitting and application of FAA Advisory Circulars and Engineering Briefs to ensure design meets FAA requirements.

The following is a sample of related project experience:

- **FXE General Engineering Consultant**, Fort Lauderdale, Florida
- **FXE Runway 9-27 Sealing & Rehabilitation**, Fort Lauderdale, Florida
- **Runway Incursion Mitigation Program (RIM)**, Fort Lauderdale, Florida
- **FXE Taxiway Sierra Rehabilitation**, Fort Lauderdale, Florida
- **FLL Terminal 4 Apron Civil Works**, Fort Lauderdale, Florida
- **FLL Southwest Airlines FLMP**, Fort Lauderdale, Florida
- **Andrews Air Force Base Taxiway Whiskey Rehabilitation**, Joint Base Andrews, Maryland
- **Andrews Air Force Base Taxiway Sierra Rehabilitation**, Joint Base Andrews, Maryland
- **BCAD General Engineering Consultant**, Fort Lauderdale, Florida
- **FLL Taxiway Charlie**, Fort Lauderdale, Florida



Marc Fermanian, PE, Construction Services Task Manager

Marc serves as a project engineer and project manager for several transportation and land development projects. He is responsible for both large and small-scale designs and permitting for these projects. He is skilled in developing civil site/land development construction plans, as well as roadway design plans utilizing FDOT plans preparation standards and indexes. Marc is familiar with FAA and FDOT standard specifications for construction. Marc's stormwater abilities have been recognized by several constituents, technocrats, and colleagues to allow him to be an accepted and active member of SFWMD's Peer Review Committee.

Marc has served as a Construction Engineer Inspector (CEI) Project Manager responsible for construction administration and overall project schedule control in which he coordinated and reviewed requests for information (RFI's) and material invoices from the contractor; reviewed, prepared and processed job estimates that included material and labor costs; recorded the progress of construction activities; and participated in on-site inspections for numerous airfield related construction projects. He's also provided stormwater designs, calculations, and master drainage plans for airport facilities.

The following is a sample of related project experience:

- **PBIA Taxiway A Design**, West Palm Beach, Florida
- **PBIA Taxiway L / Parallel Taxiway Design**, West Palm Beach, Florida
- **PBIA General Aviation Aprons B, D and E**, West Palm Beach, Florida
- **MIA Runway 12-30 and Taxiways P, Q, R and S Rehabilitation**, Miami, Florida
- **FLL Taxiway & Ramp Rehabilitation**, Fort Lauderdale, Florida

Dodie Keith-Lazowick, PLS, Technical Support Task Manager

Dodie has over 35 years of professional experience, and has supervised and provided complete development services of both public and private projects for commercial, industrial, transportation, aviation, marine, mixed-use and residential developments. She has particular expertise in governmental liaison and has been extremely successful as an advocate for the permitting and approvals of our projects due to her professional proactive approach. She has extensive experience in management of governmental contracts acting in an owner's rep, and construction manager capacity. She has extensive management experience on large governmental programs and understands the importance of meeting the needs of the owner from concept through implementation.



Dodie handles the daily operations of the firm. She serves as the Corporate Officer for all contracts, assuming responsibility for providing sufficient resource allocations and corporate commitment to our diverse client base. She is well known to the community and the agencies through her years of professional practice, local involvement and as a 55+ year resident of Broward County. Her extensive experience in South Florida has encompassed many phases of planning, design and construction including Civil Engineering, Surveying and Mapping, Comprehensive Land Planning, Landscape Architecture, Subsurface Utility Locations and Utility Coordination, and Construction Management.

The following is a sample of related project experience:

- **Pompano Air Park Master Drainage Plan**, Pompano Beach, Florida
- **City of Pompano Beach and CRA Misc. Engineering Services**, Pompano Beach, Florida
- **FLL Southwest Airlines Terminal One Modernization**, Fort Lauderdale, Florida
- **Fort Lauderdale Executive Airport (FXE) Genreal Engineering Services**, Fort Lauderdale, Florida
- **10R/28L Runway Expansion Lead Design Team**, Fort Lauderdale, Florida
- **FLL Airport Expansion Program III (AEP3)**, Fort Lauderdale, Florida

HDR ROLE
Prime

KEY PERSONNEL

John Neff
Will Suero
Tim Fish
Melanie Fowler
BJ Skar
Brenda Clark
John Danielsen
Ian Denholm
Jamie Krzeminski
Posh Supupramai
Francois Thomas
Raj Krishnasamy
Amy Champagne-Baker
Mike Mossey
Dodie Keith-Lazowick
Traci Sheppske



Fort Lauderdale Executive Airport General Engineering Consultant

City of Fort Lauderdale

Fort Lauderdale, Florida

The Fort Lauderdale Executive Airport is located in the heart of the City's Uptown Business District just minutes from downtown Fort Lauderdale.

Owned and operated by the City of Fort Lauderdale, Executive Airport serves a variety of general aviation needs including:

- Aircraft refueling and parking
- Corporate aviation
- Air ambulance
- Air charter
- Maintenance
- Avionics
- Flight training
- Aircraft refurbishing

HDR is providing general engineering services to support FXE's current development programs via a four year on call contract. We are leading a team of seven specialty subconsultants providing a wide variety of services.

The range of projects includes development of an Airport Master Plan Update, rehabilitation of existing taxiways, performance of Runway PCN evaluation, resident project representative and construction administration services; airside infrastructure studies and improvements; safety, security and communication projects; landside infrastructure studies; airport development; and airport capital project support.

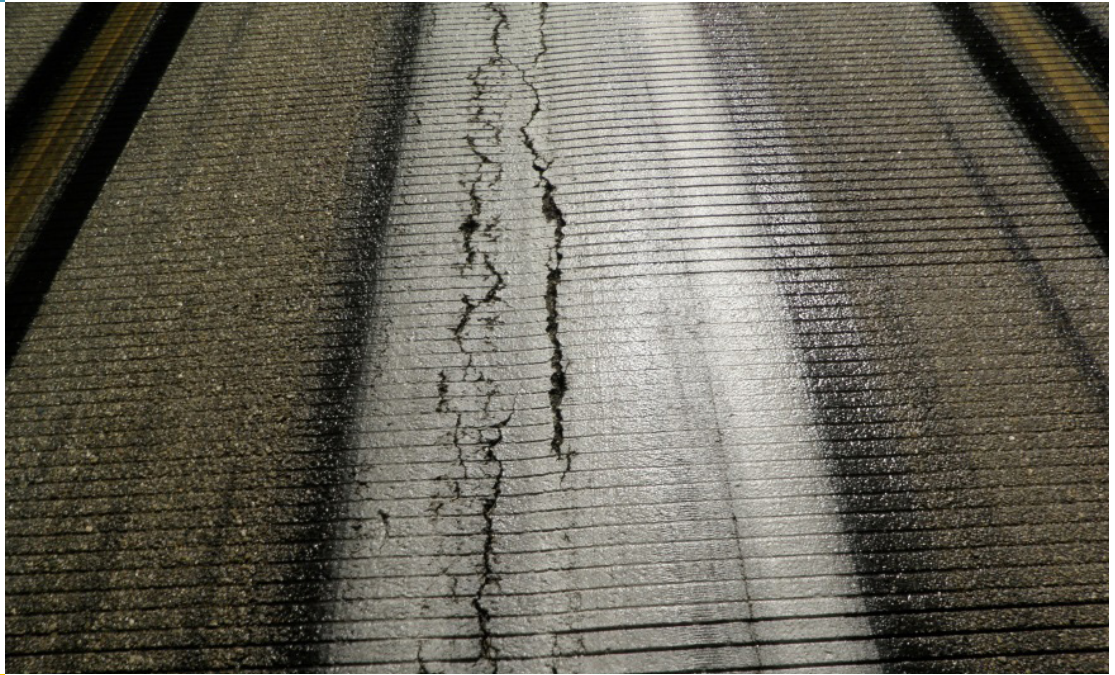
One of the strengths of the HDR team is its ability to take on all assignments that FXE may need executed. With oversight from HDR's strong national aviation practice, we can provide any service or expertise from within our network of nearly 10,000 professionals nationwide, or from one of the specialty subconsultant partners on our team.

HDR ROLE

Prime

KEY PERSONNEL

John Neff
Tim Fish
Posh Supupramai
Francois Thomas



Runway 9/27 Sealing & Rehabilitation

City of Fort Lauderdale

Fort Lauderdale, Florida

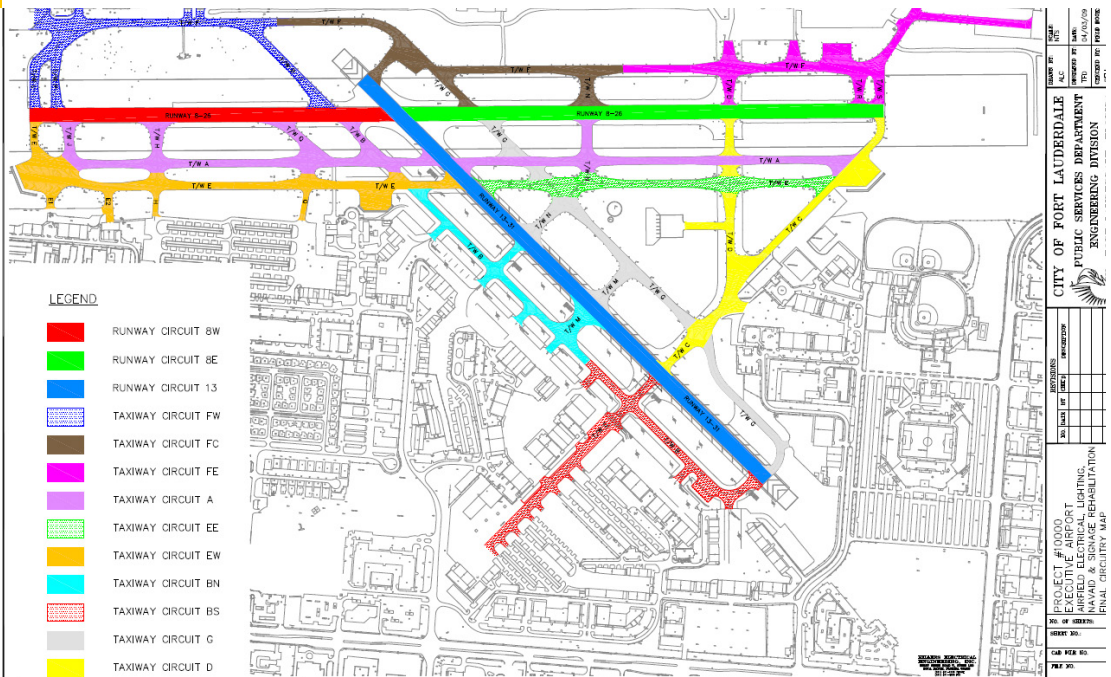
HDR is providing general engineering services to support Fort Lauderdale Executive Airport's (FXE) current development programs via a four year on call contract. Under this contract, we are providing professional engineering services for the sealing & rehabilitation of Runway 9/27.

We provided design, engineering and construction services for the preparation of plans and technical specifications to provide a Contractor in order to perform a seal coat for the runways at FXE. The condition of the pavement surfaces required a Slurry Seal in accordance with FAA AC 150/5380-6B combined with centerline reconstruction using P-401 HMA. HDR developed phasing plans to minimize downtime of the major runway for the airport. The project also included complete restriping of the runway as well as Runway 13/31.

HDR ROLE
Prime

KEY PERSONNEL

John Neff
Tim Fish
Posh Supupramai
Ian Denholm
Amy Champagne-Baker



Runway Incursion Mitigation (RIM) Program

City of Fort Lauderdale

Fort Lauderdale, Florida

HDR is providing general engineering services to support Fort Lauderdale Executive Airport's (FXE) current development programs via a four year on call contract. Under this contract, we are providing airfield electrical and pavement marking improvements at specific locations identified by the Federal Aviation Authority (FAA) through their Runway Incursion Mitigation (RIM) program.

Airfield geometry has been identified as a primary contributing factor for runway incursions. After analyzing more than six years of national runway incursion data between 2007 and 2013, the FAA developed an inventory of locations at airports where risk factors might contribute to a runway incursion. To address these existing issues, we have initiated a new comprehensive multi-year Runway Incursion.

We assisted FXE in identifying, prioritizing, and developing solutions aimed at mitigating risk in these key areas. This included providing design services for airfield electrical, geometry, pavement and pavement marking improvements rehabilitation along selected taxiways at FXE. In addition, modification to the existing ramp entry and exit locations with direct access to the movement areas were also analyzed and solutions provided. The design was performed in accordance with FAA Regulations and Advisory Circulars, and conforms to Florida Department of Transportation (FDOT) guidelines.

HDR ROLE

Prime

KEY PERSONNEL

John Neff

Tim Fish

Posh Supupramai

Ian Denholm

Amy Champagne-Baker

James Kappes

Francois Thomas



Taxiway Sierra Pavement Rehabilitation

City of Fort Lauderdale

Fort Lauderdale, Florida

HDR is providing general engineering services to support Fort Lauderdale Executive Airport's (FXE) current development programs via a four year on call contract. Under this contract, we are providing professional engineering design & construction phase services at FXE for the pavement rehabilitation along Taxiway Sierra to include rehabilitation of the existing taxiway pavement, grading, paving of the taxiway connectors, and pavement markings.

The Taxiway Sierra (S) project consists of providing a holistic engineering design for the rehabilitation of Taxiway S. Taxiway S and connector Taxiways S-1, S-2, and S-3 are approximately 1,400 foot long, cumulatively, and primarily 50 foot wide located north of Runway 27 at Fort Lauderdale Executive Airport. Taxiway S provides access to the airfield for several Airport tenants therefore the design had to account for minimizing impacts to these critical operations.

In working closely with Airport Operations and the impacted tenants, HDR lead the development of a detailed construction safety and phasing plan to address these operational impacts and minimize construction duration. The design included the pavement rehabilitation along Taxiway S and its corresponding connectors along with regrading and sodding within the taxiway shoulder. Based on the review of the forecast fleet-mix and departures, an adequate pavement structure was designed in accordance with the FAA guidelines that are described in Advisory Circular AC 150/5320-6E. A pavement marking plan was also developed in accordance with the FAA guidelines that are described in FAA AC 150/5340-1L.

HDR ROLE
Prime

KEY PERSONNEL

John Neff
Will Suero
Tim Fish
Melanie Fowler
BJ Skar
Brenda Clark
Ian Denholm
Carl Siebe
Heather Manganiello
Dan Ford
Vannarith Ky
Jamie Krzeminski
Posh Supupramai
Sunshine Bullock
Doug Sholl
Francois Thomas
Raj Krishnasamy
Kumar Vedula
Amy Champagne-Baker
James Kappes



General Engineering Consultant

Broward County Aviation Department

Broward County, Florida

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.

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 was 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 led 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.

The HDR team was assigned nearly 35 task orders totaling over \$9M 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. We have 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 9,000 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 sample of recent and ongoing projects performed by the HDR Team under this contract is provided below.

Specific Purpose Surveys of Runways at FLL and NPA

The HDR Team conducted field and visual surveys of the approach slopes for runways at FLL and NPA for compliance reports in 2010, 2011 and 2012. The surveys were performed in compliance with FAA regulations for the purpose of identifying any obstructions in the slope of the Runway Clear Zones and Runway Protection Zones. We developed a report of findings that was delivered to BCAD and accepted by the FAA.

Survey and Construction Support for FLL Canopy Project

A signature architectural feature of the passenger terminal area at FLL had been the flexible fabric canopy system that covered the pedestrian walkways connecting the terminal buildings. Damaged beyond repair by recent hurricanes, the canopy fabric was being replaced by a design- build contractor. The HDR team provided support during design of the canopy system by surveying the existing canopy support structures and providing measurements and dimensions of the structures. We are also providing on-site resident project representation on behalf of BCAD during the installation of the canopy fabric observing if the material is being installed according to plans and monitoring the pedestrian and vehicle MOT during the performance of installation activities.

Implementation of an Airport Pavement Management System

The HDR Team developed an Airport Pavement Management System (APMS) for FLL and NPA airports with the objective of providing for a consistent, objective and systematic procedure for establishing facility policies, setting priorities and schedules, allocating resources and budgeting for pavement maintenance and rehabilitation. This work included importing the FLL pavement inspection database into the local APMS software, updating the pavement inventory and network definition map for the airport, developing a capital improvement plan (CIP), training selected airport staff in developing a CIP for airport pavement using MicroPAVER, and one-day field training to conduct pavement inspection. We continue to provide ongoing technical support to BCAD for updating and maintaining the APMS.

Parcel Map for Eastside FLL

The recent property acquisition program performed by BCAD for the new south runway project had resulted in a compilation of nearly 100 boundary exhibits, easements, and other legal documents. The HDR Team was tasked with developing a map of all acquired land parcels in the southeast quadrant of FLL and rectifying the boundary lines for each of the parcels. This parcel map will be used as an exhibit for future land acquisition and airport planning activities.

National Car Rental Facility Site Remediation

The HDR Team designed and installed a remediation system for a fuel-contaminated site, located in an area where a new passenger terminal will be constructed. The advanced remediation system used for this site had never been deployed on such a large scale in Florida. The soil vapor extraction and ozone injection remediation system infuses ozone at various layers in the soil under the contaminated area. The ozone percolates up and removes the pollutant. In the first six months of operation, the system demonstrated exceptional results removing the constituents of concern at a much faster pace than had been expected. In 2011, we received approval from the regulatory agencies to install a secondary remediation system to treat an intermediate depth plume that had migrated from the originally area of contamination. HDR continues to provide ongoing monitoring and reporting services in for regulatory compliance.

Phase I/II Environmental Site Assessments for the Expanded South Runway at FLL

HDR conducted a Phase I ESA for the entire area in and adjacent to the footprint of the expanded Runway 9R-27L on the south side of FLL. Upon completion of the Phase I Report, HDR and BCAD identified four sites to conduct Phase 2 level assessments to further characterize the extent of the environmental impact or risk that existed for these sites. The purpose of these assessments is to identify the areas of environmental concern that exist within the runway project area so that BCAD can work to address and hopefully obtain clearances for all such areas.

Elevated Guard Lights (Wig Wags) and Elevated Signs at HWO

The HDR Team developed the design documents for construction of new runway lights and elevated signs for HWO. This project was partially funded by an FAA grant and had to be fully compliant with FAA standards. We developed Construction Documents (plans and specifications) in accordance with FAA design requirements including full electrical design, civil site plans, and a Maintenance of Traffic (MOT) Plan. Our 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 within funding limits. The project was constructed on time and within budget with no significant delays or issues.

Quality Assurance Materials Testing

HDR is providing quality assurance laboratory and field testing on the construction materials that will be utilized to renovate Runways at the HWO airport, and a Taxiway at FLL as a means to verify the quality control testing that will be performed by the contractors performing the rehabilitation. All material testing are being performed following Florida Department of Transportation (FDOT) standards which are documented in the projects technical specifications. Services include providing field staff to monitor the milling operations, sample the asphalt concrete mix (AC), deliver said sample (s) to our laboratory for testing, perform density testing to verify the compaction of the AC, and generate a daily field report. We are performing quality assurance testing on the earthwork operations in this section as well.

HDR ROLE
Prime

KEY PERSONNEL

John Neff
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Vannarith Ky
Jamie Krzeminski
Posh Supupramai
Sunshine Bullock
Doug Sholl
Francois Thomas
Raj Krishnasamy
Kumar Vedula
Amy Champagne-Baker
James Kappes
Dodie Keith-Lazowick
Jon Weymouth
Mike Mossey



FLL Terminal 4 Apron Civil Works

Broward County Aviation Department

Fort Lauderdale, Florida

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 Taxiway 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. We 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 developed construction bid documents for the project. We have provided "hands on" construction administration while completing 40 SI's for additional design requested by the PMO. In addition, HDR is providing planning and design services for environmental restoration of contaminated sites in Project construction footprint. We were responsible for the design of the stormwater management system and obtaining both an Environmental Resource 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.

HDR ROLE

Prime

KEY PERSONNEL

John Neff
Will Suero
Tim Fish
Melanie Fowler
BJ Skar



FLL Taxiway C Pavement Evaluation and Repair

Broward County Aviation Department

Fort Lauderdale, Florida

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 our 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, we issued a report which summarized the results of the forensic study and provided the probable cause of the failure. As part of this report, we also developed a range of repair alternatives and solutions and prepared detailed cost estimates to assist BCAD in determining a rehabilitation approach.

HDR ROLE
Prime

KEY PERSONNEL
John Neff
Brenda Clark
Melanie Fowler



Terminal Site Fuel Contamination Remediation

Broward County Aviation Department

Broward County, Florida

The HDR Team was selected to perform the remediation of a fuel-contaminated site, a portion of which is located in an area where a new terminal will be constructed. Although scored low by the Florida Department of Environmental Protection (FDEP), Broward County decided to assess and remediate any impacted soil and groundwater to prevent building over existing contamination.

The fuel contamination was part of a historic fuel spill, with a soil delineation confirmed by the regulatory agency having jurisdiction. Our team completed a delineation of free floating product together with groundwater impacts, and obtained regulatory approval for the site assessment report (SAR).

Following approval of the SAR, we worked with Broward County to devise a phasing of the remedial action plan (RAP) that would limit impacts to the airport operations (i.e., the contamination extended below the main terminal exit road). The RAP approved by the regulatory agency included soil removal, removal of free floating product, and air sparging.

The remediation was to be completed in three phases, with two phases performed on the land side of the site and the third phase on the air side. Both Phase I and II of the remediation required soil excavation, with Phase I of the remediation directly adjacent to an elevated access road.

HDR was responsible for the monitoring and documentation of the Phase I and II RAP implementation, including the installation of the shoring to provide adequate support to adjacent roadways, soil removal, removal of the free floating product, and air sparging. The Phase I and II remediation has been completed. We prepared and submitted the progress reporting for Phase I and II of the RAP to the regulatory agency. Phase III of the remedial action plan is currently ongoing, with the soil removal and free floating product currently completed. For Phase III, HDR is responsible for the monitoring and documentation of the construction activities.

HDR ROLE

Prime

KEY PERSONNEL

John Neff
Tim Fish
Melanie Fowler
BJ Skar
Brenda Clark
Ian Denholm
Carl Siebe
Heather Manganiello
Javier Manso
Raj Krishnasamy
Mike Mossey
Dodie Keith-Lazowick
Mike Phillips



FLL Southwest Airlines Terminal One Modernization Program

Southwest Airlines

Fort Lauderdale, Florida

The Southwest Airlines Fort Lauderdale Terminal One Modernization Program (FLMP) includes the design and construction of a Concourse A Facility consisting of five (5) International “swing” gates, an apron facility, concessions and a Federal Inspection Services (FIS) area along with improvements to the existing Terminal facility. Project also included changes to Taxi staging (GTA), as well as East Perimeter Road.

We provided planning and design services to replace the current single taxilane condition with dual aircraft design group III (ADG III) taxilanes to meet operational requirements with the addition of Concourse A. All airfield pavement design was performed utilizing the FAA FAARFIELD design software.

All proposed work will be completed while maintaining operations to the existing Terminal and Concourse. This required us to develop a detailed Construction Safety and Phasing Plan for submittal to and approval by the FAA and effected airlines.

This project will also modify the existing airport terminal utility infrastructure as required to facilitate the FLMP. We were responsible for the design of the stormwater management system and obtaining both an Environmental Resource and Water Use Permits through the South Florida Water Management District. HDR also obtained all required permits for the proposed potable water and sanitary sewer system improvements through local, county and state agencies.

The project is currently in construction with HDR providing construction administration for Apron & Landside Development.

HDR ROLE

Subconsultant

KEY PERSONNEL

Tim Fish
Jeremiah Ferguson
Josh Rodgers
John Neff
Posh Supupramai



BP 443 Airside 4 Improvements Program

Orlando International Airport

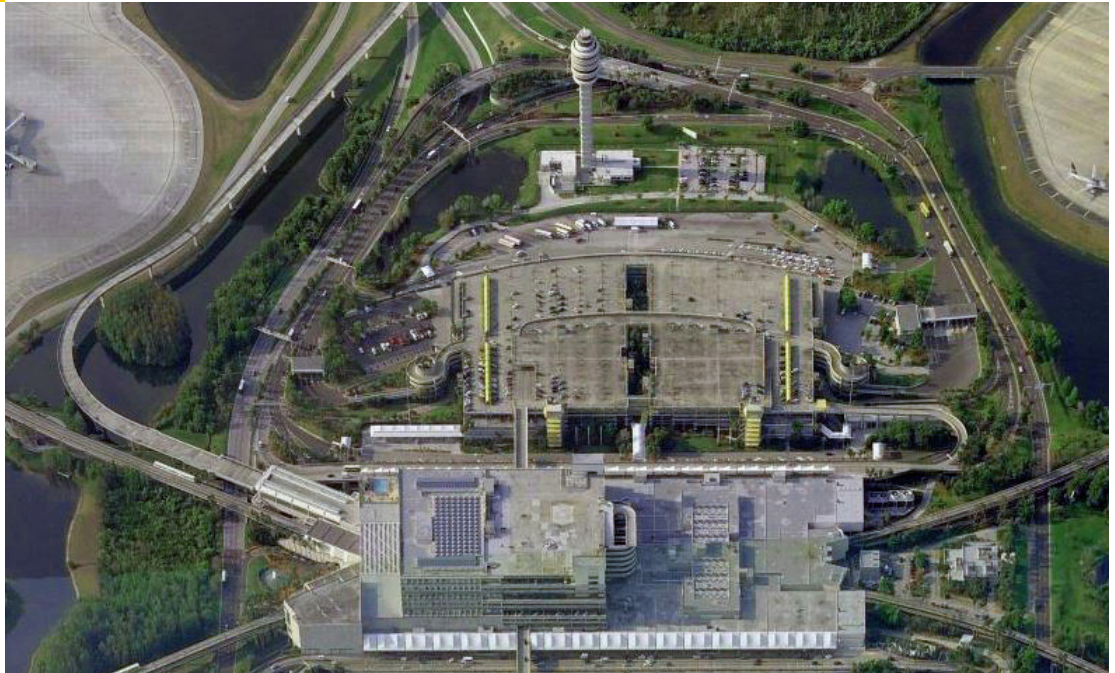
Orlando, Florida

Due to the increased number of wide body aircraft utilizing Orlando International Airport, the Greater Orlando Aviation Authority developed the Airside 4 Terminal Improvements program. This program modernized the existing terminal and rehabilitated portions of the existing apron area to accommodate new wide body aircraft parking positions.

HDR served as the lead designer for all required fuel hydrant system design associated with these improvements. This included determining the location of relocated fuel hydrant pits for wide body aircraft, design of modifications to the fuel system and relocation of the emergency fuel shut off valves. We worked closely with the fuel consortium and airport operations to determine an approach that would minimize impacts to ongoing operations while isolating areas of the fuel system to safely perform the required modifications.

HDR ROLE
Prime

KEY PERSONNEL
Jamie Krzeminski



Transportation Planning Services

Greater Orlando Aviation Authority

Orlando, Florida

This project is an example of HDR's commitment to build strong, long-term relationships with our clients. Since 1995 HDR has served as the General Transportation Planning Consultant to the Greater Orlando Aviation Authority (GOAA). One of the major studies HDR conducted under this contract was the development of the 20-year Ground Transportation Master Plan. This effort included reviews of alternative alignments for roadway corridors. We also conduct GOAA's annual peak season (Easter) counts and has developed a sub-area model for the Orlando International Airport.

The following list highlights many of HDR's key assignments while working with GOAA throughout our continuing services contracts.

- 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
- Employee TDM Survey
- North & South Terminal Re-evaluation

HDR ROLE
Prime

KEY PERSONNEL
Carl Siebe



Deadhorse Airport Master Plan Update

Alaska Dept of Trans & Public Facilities

Deadhorse, Alaska

HDR prepared a comprehensive Airport Master Plan (AMP) update for the Deadhorse Airport located on Alaska's North Slope that serves as the main air transportation link for the oil and gas fields at Prudhoe Bay.

The Alaska Department of Transportation and Public Facilities (DOT&PF) requested a comprehensive Airport Master Plan (AMP) to guide development of and prepare the airport for a major natural gas pipeline project. We provided coordination and public involvement; inventory of the aviation facilities and passenger terminal facilities including mapping to Federal Aviation Administration (FAA) GIS standards; upload the data to the FAA Airports GIS Database; inventory airport access, parking, security, support facilities and utilities; document historical aviation activity, and forecast short, intermediate, and long term aviation demands.

After the FAA approved the forecast, HDR identified airside and landside requirements and their alternatives; prepared an airport improvement implementation plan and a financial implementation plan; developed an Airport Layout Plan; and compiled a final AMP report.

HDR ROLE
Prime

KEY PERSONNEL
Carl Siebe
John McPherson



Airport Master Plan (AMP) Update and Noise Exposure Plan, Phase 1 for Merrill Field Airport

Municipality of Anchorage

Anchorage, Alaska

HDR was selected to complete an Airport Master Plan (AMP) update for the Merrill Field Airport in Anchorage, Alaska. Merrill Field, originally constructed in 1930, is a municipal airport located in the heart of Anchorage. In 2009, Merrill Field was the 72nd busiest airport in the nation and is the nation's busiest general aviation (GA) airport, with approximately 165,000 take-offs and landings per year. The airport supports over 40 aviation businesses and 900 based aircraft.

We are providing planning, engineering, and ALP development, survey/mapping, and public involvement services for Phase I of this AMP update and noise exposure plan for the MOA. Currently, HDR has developed a PIP, conducted public meetings, given airport stakeholder presentations and conducted interviews, and established a public advisory group. We recently completed an inventory of existing conditions and issues and compiled it into an overall Airport Geodatabase. We created an as-built ALP set and will be preparing an update to that ALP that incorporates any changes to the existing and ultimate airport layouts. The new ALP will be compatible with the new FAA airports GIS and Electronic ALP (eALP) initiatives. We have also collected supporting data and developed aviation forecasts for the 5-year, 10-year, and 20 year airport development phases. Other elements include facility requirements analysis and alternatives development, financial plan, a draft and final AMP report, and draft and final ALP update.

As one of the busiest GA airports in Southcentral Alaska, and one that is municipally owned, Merrill Field is required to be financially self-sufficient. Due to declining operations and competition from nearby State-subsidized facilities, this has become increasingly more challenging. HDR is assisting with this issue by developing alternative strategies through a business plan that will stabilize revenues. Merrill Field is also dealing with an FAA compliance inspection detailing non-aeronautical land uses at the airport. HDR is helping Merrill Field deal with compliance issues through the master plan update.

Successes: Our team developed the Airport GIS and surveying work plan and received FAA approval in accord with the new FAA eALP requirement. To supplement the project's public outreach effort, We conducted successful noise impact workshops for the public to explain the noise modeling process and FAA's methodology for identifying adverse noise impacts to areas surrounding airports.

ROLE

Subconsultant

FIRM

Keith & Associates

KEY PERSONNEL

Dodie Keith-Lazowick

Michael Mossey

Traci Sheppske



Pompano Beach Air Park Master Drainage Plan

City of Pompano Beach

Pompano Beach, Florida

The Pompano Beach Air Park is located in the heart of the Gold Coast serves the general aviation needs of Broward County. This air transportation facility is owned and operated by the City of Pompano Beach. The airport provides a multitude of general aviation services including flight training, aircraft rental, air taxi/charter, scenic rides, air ambulance, aerial photography, mapping and surveying, search & rescue, storage hangars, aircraft sales, maintenance, avionics repairs and ramp services (aircraft fueling, tiedowns, catering, etc.).

Keith and Associates, Inc. was responsible for surveying, data collection and site reconnaissance, as well as performing permitting due diligence and permit processing coordination, expediting and assistance. The project consisted of field reconnaissance, surveys and reviews of all available City information and data affecting drainage and storm drainage infrastructure, preparation of analyses, design reports, feasibility studies and design alternative, and recommendations. Also consisted of associated project cost estimated for related infrastructure improvements, update of the SWMPPP and recommendations for implementation, monitoring and reporting, meetings and presentations before stakeholder groups, advisory boards and elected officials, preparation of required submittal packages for agency having jurisdiction.



H

Resumes of Key Personnel



John Neff, PE

Project Manager

FIRM

HDR

EDUCATION

Bachelor of Science, Civil Engineering, Florida Atlantic University, 2008

REGISTRATIONS

Professional Engineer - Civil, Florida, No. 70633

Professional Engineer - Civil, Kentucky, No. 31308

Professional Engineer - Civil, Massachusetts, No. 49425

Professional Engineer - Civil, New Hampshire, No. 13812

Professional Engineer, Tennessee, No. 117593

INDUSTRY TENURE

40 years

HDR TENURE

4 years

OFFICE LOCATION

Fort Lauderdale, FL

John is a Senior Project Manager and the Florida Aviation Practice Group Manager for HDR. He has a strong background in planning, design, and construction administration of aviation projects. His working knowledge of the aviation industry, as well as specifications and contract compliance, enables him to consistently produce well-managed projects.

John brings over 40 years of experience managing diverse projects across the country and around the world. He brings the knowledge and experience to you in order to make this project a success. He has served in a key role for more than \$20 billion in construction projects, much of that for aviation facilities.

RELEVANT EXPERIENCE

City of Ft Lauderdale, FL, FXE Aviation General Engineering Consultant

Services, Fort Lauderdale, Broward, Florida, United States

HDR is providing general engineering services to support FXE's current development programs via a four year on call contract. The range of projects includes rehabilitation of existing taxiways performance of Runway PCN evaluation resident project representative and construction administration services; airside infrastructure studies and improvements; safety security and communication projects; landside infrastructure studies; airport development; and airport capital project support.

FXE Taxiway Sierra, City of Fort Lauderdale, Fort Lauderdale, Florida

Project Manager. The Taxiway Sierra (S) project consists of providing a holistic engineering design for the rehabilitation of Taxiway S at Fort Lauderdale Executive Airport. Taxiway S provides access to the airfield for several Airport tenants therefore the design had to account for minimizing impacts to these critical operations. In working closely with Airport Operations and the impacted tenants, HDR lead the development of a detailed construction safety

and phasing plan to address these operational impacts and minimize construction duration. The design included the pavement rehabilitation along Taxiway S and its corresponding connectors along with regrading and sodding within the taxiway shoulder.

FXE Runway 9-27 Sealing & Rehabilitation, City of Fort Lauderdale, Fort Lauderdale, Florida

Project Manager. HDR provided design, engineering and construction services for the preparation of plans and technical specifications to provide a Contractor in order to perform a seal coat for the runways at FXE. The condition of the pavement surfaces required a Slurry Seal in accordance with FAA AC 150/5380-6B combined with centerline reconstruction using P-401 HMA. HDR developed phasing plans to minimize downtime of the major runway for the airport. The project also included complete restriping of the runway as well as Runway 13/31.

Runway Incursion Mitigation Program (RIM), City of Fort Lauderdale, Fort Lauderdale, Florida

Project Manager. HDR assisted FXE in identifying, prioritizing, and developing solutions aimed at mitigating risk in these key areas. This included

JOHN NEFF, PE

providing design services for airfield electrical, geometry, pavement and pavement marking improvements rehabilitation along selected taxiways at FXE. In addition, modification to the existing ramp entry and exit locations with direct access to the movement areas were also analyzed and solutions provided. The design was performed in accordance with Federal Aviation Administration (FAA) Regulations and Advisory Circulars, and conforms to Florida Department of Transportation (FDOT) guidelines.

**FLL Terminal 4 Apron Civil Works,
Broward County Aviation Dept, Fort
Lauderdale, Florida**

John served as a Senior Project Manager for the replacement and expansion of the existing Terminal 4 Apron at the Fort Lauderdale/Hollywood International Airport. 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. HDR is also overseeing multiple subconsultants who are performing specialized services such as Environmental restoration, Pavement analysis and design, and Stormwater and Drainage Design.

**FLL Taxilane Tango and Apron
Rehabilitation, Broward County
Aviation Dept, Fort Lauderdale, Florida**

Resident Project Engineer for the design/reconstruction of the inner taxilane requiring extensive planning and flexibility to support the ongoing

air carrier needs. Project was completed without delays for the tenants and a half million dollars under the projected \$7 million dollar budget.

**18R-36L Runway Rehabilitation,
North Perry General Aviation Airport,
Broward County, Florida**

Senior Project Manager/Project Engineer, developed plans and specifications for structural rehabilitation including Bid & Award, CA and CS services as well as final certification.

**Stormwater Master Plan, Fort
Lauderdale-Hollywood International
Airport, Fort Lauderdale, Florida**

Project Engineer, developed plans to remove open water conveyance and replace with storm-water piping systems.

**Taxiway Echo – North Perry General
Aviation Airport, Broward County,
Florida**

Resident Project Engineer for design/construction of a new taxiway and improvements to the electrical systems including the REILS for two runways.

**Runway 14-32 Overlay and Taxiway
Alpha Extension, Port St Lucie
International Airport, Port St Lucie,
Florida**

Project Engineer/Manager for an overlay of a runway and additional taxiway pavements. Inspection of final paving and certification of Substantial and Final Completion.



Will Suero, PE

Project Principal

FIRM

HDR

EDUCATION

Bachelor of Science, Civil Engineering, University of Central Florida, 1990

REGISTRATIONS

Professional Engineer - Civil, California, United States, No. 52834

Professional Engineer - Civil, Florida, United States, No. 49224

INDUSTRY TENURE

26 years

HDR TENURE

15 years

OFFICE LOCATION

Fort Lauderdale, FL

Will has 25 years of experience in the project management and design of transportation engineering projects, including on FDOT projects since 1994. Further, he has served as Project Principal on projects for HDR Engineering in South Florida since 2001. Project Experience spans from Multi-Modal planning studies for major Interstate, to Design-Build Procurement support for Express Lanes Corridors, as part of the South Florida Managed Lanes Network. He has also supervised and directed technical staff in the preparation of all components of roadway plans for FDOT, county and private development Final Engineering projects including geometrics, drainage, traffic control, signing and pavement marking, signalization, lighting, environmental permitting and utilities coordination.

RELEVANT EXPERIENCE

Broward County Aviation Department - General Engineering Consulting Services, Fort Lauderdale, 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.

Broward County, Florida, Broward County Aviation GEC - FLL Taxiway C Pavement Evaluation, Broward, Florida

HDR was requested by Broward County Aviation Department (BCAD) to perform an evaluation program comprising review of design documents construction records and interviews of various personnel involved with the design program management and construction of Taxiway C at Ft. Lauderdale-Hollywood International Airport. The report was to identify key factors that caused post-construction rutting on Taxiway C.

City of Miami, City of Miami Service Support, Miami, Dade, Florida

This contract consisted of Production Construction and Maintenance Program Management (PM). Production tasks included managing project schedules and finances and developing the scope of services plans and specs. Construction tasks included QC of plans specs and estimates and developing CEI resource needs and scope of services. Maintenance tasks included a 6-year program; typical sections; and bid items and specs specific to infrastructure management including a citywide GIS database.

Broward Metropolitan Planning Organization, Let's Talk Transportation Public Outreach Speak Up Broward Phase 2, Broward County, Florida

Project Manager. This project consists of two main tasks which is the development of a Local Transportation Funding plan and General MPO Awareness. The LTFP will consist of education efforts to inform the public about local transportation funding plans that may be advanced by Broward County or the municipalities. In order to increase the public's awareness of the MPO its programs and help them understand how transportation is funded HDR is

WILL SUERO, PE

providing General MPO Awareness services.

South Florida Regional Transportation Authority, Wave Streetcar Program Management, Fort Lauderdale, Florida

HDR is the Program Management Consultant (PMC) reporting directly to SFRTA. As PMC we implement the inter-governmental agreement with the Wave partnership that includes DDA the City of Fort Lauderdale FDOT Broward County and the Broward MPO. Our responsibilities include full-service project management public involvement preliminary engineering procurement support plan reviews and ultimately construction engineering and inspection.

City of Hallandale Beach, Hallandale Beach 2030 Transportation Master Plan, Hallandale, Broward, Florida

Development of a long-range transportation master plan for the City of Hallandale Beach. Project included participation in public meetings and presentations to the City Commission analysis of short range and long-term transportation alternatives preparation of cost estimates preparation of a citywide Transportation Master Plan. The Scope of the plan included highway improvements corridor identification/analysis traffic modeling transit and pedestrian and bicycle modes.

City of Miami, Capital Improvement Program Management Services, Miami, Dade, Florida

HDR's services included all aspects of administrative production and construction program management. HDR served as the Owner's Representative for horizontal projects (street resurfacing and reconstruction and drainage improvements) as well as vertical projects (park restorations City building infrastructure and

FDOT, I-75 at Miramar Parkway IOAR/Final Design, Miramar, Broward, Florida

Work involves a full traffic operational analysis on 4 alternative interchange configurations to modify the existing Partial Cloverleaf Type B interchange. Final design elements including Roadway Traffic Drainage Lighting Environmental Permitting Utility Coordination and Public Involvement will be applied to the preferred alternative from the Interchange Operational Analysis Report.

Miami-Dade County Expressway Authority, SR 924 Project Development Environmental, Miami, Florida

HDR was selected to provide 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).



FIRM
HDR

EDUCATION
Bachelor of Science,
Environmental Engineering,
University of Central Florida,
1995

REGISTRATIONS
Stormwater Inspector, Florida,
United States, No. 22193

Professional Engineer - Civil
and Environmental, Florida,
United States, No. 56133

INDUSTRY TENURE
21 years

HDR TENURE
8 years

OFFICE LOCATION
Orlando, FL

Melanie Fowler, PE

QA / QC Manager

Melanie has over 21 years of civil engineering experience, specializing in permitting, compliance review, stormwater management, utility design, and land development projects. She has provided project management, planning, design and construction phase services for various projects.

Melanie has completed numerous water resources, solid waste and site development projects for a variety of private, local, and state clients in Florida. She is a registered professional engineer in Florida and she is an involved member of the professional association community.

RELEVANT EXPERIENCE

Broward County Aviation Department - General Engineering Consulting

Services, Fort Lauderdale, 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.

Broward County, Florida, Broward County Aviation GEC - FLL Taxiway C Pavement Evaluation, Broward County, Florida

HDR was requested by Broward County Aviation Department (BCAD) to perform an evaluation program comprising review of design documents construction records and interviews of various personnel involved with the design program management and construction of Taxiway C at Ft. Lauderdale-Hollywood International Airport. The report was to identify key factors that caused post-construction

rutting on Taxiway C.

Broward County, Florida, FLL Terminal 4 (T4) Apron Expansion Final Design, Fort Lauderdale, Florida

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. Ms. Fowler is currently performing project management duties on a multi-million dollar terminal apron replacement for the third largest airport in Florida. Her duties include client care subconsultant management invoicing staff coordination and planning.

BCAD GEC - FLL West Bid Phase, Fort Lauderdale, Florida

HDR is one of three teams providing general engineering services via a 5-year \$9.3-million task order contract. Work could include environmental engineering services; airside infrastructure studies and improvements; safety security and communication projects; tenant

MELANIE FOWLER, PE

improvements; airport facility refurbishments and improvements; terminal development improvements; landside infrastructure studies; airport development; and airport capital project support.

Denver Airport Planning Office, DIA Equipment Needs, *Denver, Colorado*

HDR was selected to assist Denver International Airport (DIA) in evaluating its future solid waste equipment needs.

BCAD GEC - East Bid Phase Ft. Lauderdale-Hollywood International Airport, *Fort Lauderdale, Florida*

HDR is one of three teams providing general engineering services via a 5-year \$9.3-million task order contract. Work could include 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.

South Florida Regional Transportation Authority, Wave Streetcar Program Management, *Fort Lauderdale, Florida*

HDR is the Program Management Consultant (PMC) reporting directly to SFRTA. As PMC we implement the inter-governmental agreement with the Wave partnership that includes DDA the City of Fort Lauderdale FDOT Broward County and the Broward MPO. Our responsibilities include full-service project management public involvement preliminary engineering procurement support plan reviews and ultimately construction engineering and inspection.

Osceola County Program

Management, *Kissimmee, Florida*

In 2006 HDR Engineering was selected to serve as Osceola County's Transportation Program Manager. Because of their growth projections the County needed to begin building transportation and other infrastructure at an accelerated pace to meet their current and future needs. At that time the County had planned projects representing approximately 224 lane miles with projected project costs in excess of \$200 million dollars. Since 2007 HDR has had an engineer/project manager located in the County Public Works offices.

City of Belle Isle., Stormwater and Engineering Continuing Services, *Belle Isle, Florida*

HDR provided continuing professional services for stormwater improvements for flooding and water quality assistance with NPDES permit compliance and annual reporting plan reviews and assistance with as needed general engineering services. Professional services related to stormwater improvements included the studies design permitting and construction document preparation for projects that address flooding and water quality.

Due Diligence for Site Development

Brevard County, Florida

Ms. Fowler has performed a site development review for the siting of a marine fish hatchery. Stormwater wetlands and floodplain considerations have made this project especially challenging. A coordinated effort from local and federal agencies have provided opportunities to explore unique solutions such as land swaps to achieve a pleasing outcome to all parties.



John McPherson, AICP

Planning Task Manager

John's experience includes transportation planning and environmental analysis for transportation projects. He is well versed in transportation planning issues and techniques and has worked on and managed a variety of projects for cities, counties, and State DOTs. His responsibilities have included managing staff, subconsultants, and budgets; technical analysis and writing; and public and agency involvement. He has considerable experience with local, state, and federal laws and regulations and has the ability to take projects from the planning stage through environmental clearance. His background includes major environmental impact statements (EIS), environmental assessments (EA), transportation plans and studies, airport master plans (AMP), city and borough comprehensive plans, coastal management plans, and other land use and environmental studies.

RELEVANT EXPERIENCE

FIRM

HDR

EDUCATION

Master of Arts, Plan Sciences
(Urban & Regional Planning),
University of Oregon, 1992

Bachelor of Arts, Mathematics
(Mathematics/Economics),
Saint Olaf College, 1987

REGISTRATIONS

AICP - American Institute of
Certified Planners, United
States National Registration,
No. 11580

INDUSTRY TENURE

29 years

HDR TENURE

22 years

OFFICE LOCATION

Anchorage, AK

Apalachicola Municipal Airport Master Plan, *Apalachicola, Florida*

John prepared and wrote all aspects of the airport master plan including the background and inventory aviation forecasts demand and capacity analysis and alternatives development sections.

Municipality of Anchorage, Merrill Field Airport Master Plan (AMP) Update and Noise Exposure Plan Phase 1, *Anchorage, Alaska*

HDR provided planning engineering Airport Layout Plan (ALP) development survey/mapping and public involvement services for Phase I of this airport master plan (AMP) update including a noise exposure plan for the Municipality of Anchorage (MOA).

Municipality of Anchorage, Alaska Project Management & Engineering, Merrill Field Airport Master Plan Update Phase 2, *Anchorage, Alaska*

HDR is providing the following services for the Merrill Field Airport Master Plan Update Phase 2: facilities implementation plan/CIP financial feasibility analysis complete AMPU report complete ALP update and AGIS.

Alaska Department of Transportation & Public Facilities, Port Lions Airport Master Plan, *Port Lions, Alaska*

HDR is updating the airport master

plan for Port Lions on Kodiak Island to outline aviation improvements needed to comply with FAA regulations.

The airport consists of a 2200-foot gravel airstrip. Seaplanes use the city dock. Regular and charter flights to Port Lions are available from the City of Kodiak. Phase 1 includes identification of preferred alternatives (with public involvement a condition and needs assessment and alternatives development and analysis). Phase 2 covers a draft master plan and EA. Phase 3 includes preparation of the final airport master plan.

Alaska Department of Transportation & Public Facilities, Girdwood Airport Master Plan, *Girdwood, Anchorage, Alaska*

HDR prepared the first-ever airport master plan (AMP) for the Girdwood Airport. The facility is a non-towered general aviation airport located about 40 miles south of Anchorage and two miles northeast of the Seward Highway.

Alaska Department of Transportation & Public Facilities, Iliamna Airport Master Plan, *Lake and Peninsula, Alaska*

HDR provided the Alaska Department of Transportation and Public Facilities (DOT&PF) with a comprehensive airport master plan (AMP) to guide development of the airport at Iliamna Alaska.

JOHN MCPHERSON, AICP

Anchorage International Airport (ANC) Master Plan and Airport Layout Plan (ALP) Update, Anchorage, Alaska

HDR was a primary member of the consultant team that led the Master Plan Update for the Ted Stevens Anchorage International Airport (ANC) a major international cargo hub (No. 2 in the US and No. 5 in the world for cargo throughput) and the largest air transportation facility in Alaska.

Alaska Department of Transportation & Public Facilities, Kodiak Airport Master Plan Update, Kodiak, Alaska

HDR prepared an Airport Master Plan (AMP) for the Kodiak Airport. The Alaska Department of Transportation and Public Facilities (DOT&PF) requested a comprehensive AMP to guide needed improvements at the Kodiak Airport that was initially developed during World War II.

Alaska Department of Transportation & Public Facilities, Bethel Airport Master Plan, Bethel, Alaska

HDR is completing an airport master plan (AMP) for the Bethel Airport the third-busiest in Alaska. Some of the issues looked at in development of this master plan included: over-crowded passenger and freight parking areas; congested airport circulation; conflicting land uses; expanded terminal facilities for baggage security etc.; and navigation improvements. The master plan also required public involvement an environmental assessment a geotechnical investigation preparation of airport layout plans; and preparation of the final airport master plan identifying improvements over the next 5 10 and 20 years.

Ketchikan Gateway Borough Gravina Island Development Coastal Management Program, Alaska

John managed these diverse planning projects to help the Borough assess the far-reaching impacts of a proposed hard link transportation alternative connecting Revillagigedo Island where the City of Ketchikan is located with Gravina Island where the local airport is located and the site of most of the developable land in the borough. John also led land use and transportation analysis for the Gravina Island Development Plan leading planning and policy development for the Coastal Management Zone Update plan and helped form the wetland development process for the Wetland/Watershed plan. He also coordinated the results of these plans with Alaska Department of Transportation and Public Facilities' Gravina Access Project that HDR is managing.

Alaska Department of Transportation & Public Facilities, Kipnuk and Kwethluk Airport Master Plan, Alaska

For the Kipnuk and Kwethluk AMPs John prepared the scoping report conducted the socioeconomic analysis prepared inventories of airport services and facilities and worked on the project's environmental assessments.

Alaska Department of Transportation & Public Facilities, Yakutat Airport Master Plan, Yakutat, Alaska

HDR updated the airport master plan for the Yakutat Airport. The state-owned and operated facility is classified as a Transport Airport serving air carrier commercial general aviation and military air traffic.



Timothy J. Fish, PE

Design Task Manager

FIRM HDR

EDUCATION
Bachelor of Science, Civil
Engineering, University of MO
Columbia, 2004

REGISTRATIONS
Professional Engineer, Florida,
United States, No. 70617

INDUSTRY TENURE
14 years

HDR TENURE
5 years

OFFICE LOCATION
Fort Lauderdale, FL

RELEVANT EXPERIENCE

City of Ft Lauderdale, FL, FXE Aviation General Engineering Consultant Services, Fort Lauderdale, Florida

HDR is providing general engineering services to support FXE's current development programs via a four year on call contract. The range of projects includes rehabilitation of existing taxiways performance of Runway PCN evaluation resident project representative and construction administration services; airside infrastructure studies and improvements; safety security and communication projects; landside infrastructure studies; airport development; and airport capital project support.

FXE Taxiway Sierra, City of Fort Lauderdale, Fort Lauderdale, Florida

The Taxiway Sierra (S) project consists of providing a holistic engineering design for the rehabilitation of Taxiway S at Fort Lauderdale Executive Airport. Taxiway S provides access to the airfield for several Airport tenants therefore the design had to account for minimizing impacts to these critical operations. In working closely with Airport Operations and the impacted tenants, HDR lead the development of a detailed construction safety and phasing plan to address these operational impacts and minimize construction duration. The design

included the pavement rehabilitation along Taxiway S and its corresponding connectors along with regrading and sodding within the taxiway shoulder.

FXE Runway 9-27 Sealing & Rehabilitation, City of Fort Lauderdale, Fort Lauderdale, Florida

HDR provided design, engineering and construction services for the preparation of plans and technical specifications to provide a Contractor in order to perform a seal coat for the runways at FXE. The condition of the pavement surfaces required a Slurry Seal in accordance with FAA AC 150/5380-6B combined with centerline reconstruction using P-401 HMA. HDR developed phasing plans to minimize downtime of the major runway for the airport. The project also included complete restriping of the runway as well as Runway 13/31.

Runway Incursion Mitigation Program (RIM), City of Fort Lauderdale, Fort Lauderdale, Florida

HDR assisted FXE in identifying, prioritizing, and developing solutions aimed at mitigating risk in these key areas. This included providing design services for airfield electrical, geometry, pavement and pavement marking improvements rehabilitation along selected taxiways at FXE. In addition, modification to the existing

TIMOTHY J. FISH, PE

ramp entry and exit locations with direct access to the movement areas were also analyzed and solutions provided. The design was performed in accordance with Federal Aviation Administration (FAA) Regulations and Advisory Circulars, and conforms to Florida Department of Transportation (FDOT) guidelines.

Broward County Aviation Department - General Engineering Consulting Services., Broward County, Florida

Senior Project Engineer 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.

Broward County, Florida, South Terminal Remediation, Fort Lauderdale, Florida

The proposed 24-inch water main will run along the northeast side of the airport's new Terminal 4 (T-4) expansion. It will service the expansion's potable and fire flow needs. The project is currently under construction.

Orlando International Airport BP443 Airside 4 Improvements Program, Orlando, Florida

Due to the increased number of wide body aircraft utilizing Orlando International Airport the Greater

Orlando Aviation Authority developed the Airside 4 Terminal Improvements program. This program modernized the existing terminal and rehabilitated portions of the existing apron area to accommodate new wide body aircraft parking positions. HDR served as the lead designer for all required fuel hydrant system design associated with these improvements.

Broward County, Florida, FLL Terminal 4 (T4) Apron Expansion, Fort Lauderdale, Florida

Project engineer for the replacement and expansion of the existing Terminal 4 Apron at the Fort 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 minimize the impacts on airport operations design of stormwater system design of water and sewer infrastructure to server the proposed Terminal 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.



Marc Fermanian, PE

Construction Services Task Manager

FIRM

CRJ & Associates, Inc.

EDUCATION

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

REGISTRATIONS

Professional Engineer, Florida, United States, No. 0052626

INDUSTRY TENURE

23 years

CRJ TENURE

16 years

OFFICE LOCATION

Fort Lauderdale, FL

Marc serves as a project engineer and project manager for several transportation and land development projects. He is responsible for both large and small-scale designs and permitting for these projects. Marc has provided stormwater designs, calculations, and master drainage plans for: airports, ports / harbors, roadway projects, university campuses, and an assorted selection of miscellaneous civil site projects. In addition, he has a diverse background in both civil engineering and construction.

Marc is skilled in developing civil site/ land development construction plans, as well as roadway design plans utilizing FDOT plans preparation standards and indexes. He is familiar with FAA and FDOT standard specifications for construction. Marc's stormwater abilities have been recognized by several constituents, technocrats, and colleagues to allow him to be an accepted and active member of SFWMD's Peer Review Committee.

Marc has served as a Construction Engineer Inspector (CEI) Project Manager responsible for construction administration and overall project schedule control in which he coordinated and reviewed requests for further information (RFI's) and material invoices from the contractor; reviewed, prepared and processed job estimates that included material and labor costs; recorded the progress of construction activities; Davis-Bacon employee wage rates; and participated in on-site inspections.

RELEVANT EXPERIENCE

MDAD Project No. W016A Miami International Airport Tank Farm Utilities Modification, Miami-Dade Aviation Department, *Miami, Florida*
Project currently awarded by MDAD due to Marc's technical abilities, project approach, and field investigations prior to the scope and fee proposal efforts. The Project was awarded to CRJ in May of 2016 and involves the 1st efforts in the conversion of MIA's Tank Farm from Landside to Airside. CRJ was hired for this underground utility coordination effort between MDAD, FPL, AT&T and Allied Aviation Fueling of Miami, Inc. CRJ shall facilitate conceptual design, final design, bid documents, construction management and project close-out. The project requires CRJ to devise an underground duct bank system to facilitate existing overhead utilities while posing no disruption to fuel deliveries, avoiding all existing underground utilities such

as: eight (8) Jet Fuel Lines ranging in size from 8-inches to 18-inches; four (4) force mains comprised of lines ranging from 4-inch to 16-inch; several water mains with the largest at 24-inch; and with the understanding that the project is roughly 40ft away from the main existing electrical feed energizing portions of the Main Terminal, Concourse J & H and the Dolphin & Flamingo Parking Garages.

MDAD Project No. S019A Opa-Locka Executive Airport Interior Service Road, Miami-Dade Aviation Department, *Miami, Florida*

Marc was the Engineer-of-Record for OPF's Interior Service Road (ISR) from conception through construction completion. Mr. Fermanian was instrumental in the geometry design, roadway typical section, plans production, stormwater permitting, MDAD Division 1 & Technical

MARC FERMANIAN, PE

Specifications, Bid & Award as well as overseeing all facets of the 400-calendar days of the construction schedule. Project parameters were to design a new service road for fueling and with the concept of future development along the south side of OPF. The 2.3 Miles of new roadway was completed at a construction cost of \$2.7M with CRJ receiving MDAD's consultant evaluation for scoring of 4.0, "superior performance."

MDAD Project No. H024C-1 Miami International Airport Runway 8R-26L Pavement Re-Construction Project, Miami-Dade Aviation Department, Miami, Florida

Lead Professional Engineer and led the Construction Inspection Services (CIS) for MDAD on the second Runway rehabilitation project at MIA. Mr. Fermanian's prior experience on MIA's 9R-27L Project Manager made him the perfect candidate to lead the CIS Group for MIA's latest Runway Project; hence, the last two Runway Projects at MIA were managed by Mr. Fermanian. The 8R-26L Project had a construction cost of nearly \$28 Million. Marc was responsible for the overall Construction Project Management which included: Scheduling Construction Inspectors, CIS Office Management, Contractor Pay Requisitions, Leading Weekly Project Construction Meetings, Meeting with MDAD Senior Staff, Reporting of the Project Schedule, Writing Work Orders, comprising a Daily Effort for Tracking Quantities, Reviewing Inspector Reports, Reviewing Contractor Schedules, Monitoring As-Built Efforts, and Project Close-Out. The Project had comprised of roughly 130,000 Tons of P-401 Asphalt using both polymer and conventional mix (both ½ -inch and ¾ -inch), control of Airfield Lighting and Circuits to illuminate over 2,000 fixtures. Finally, this project was a

success for MDAD and Mr. Fermanian has been well recognized by MDAD Senior Staff as an Engineer with solid airside construction experience. This was Marc's 2nd successful Runway Project at MIA. In closing, Marc now has roughly \$42 Million of Runway Construction Experience; a magnitude that far exceeds most airside engineering professionals.

Runway 9R-27L Ft. Lauderdale-Hollywood International Airport (FLL) – Pavement Rehabilitation, Broward County Aviation Authority, Broward County, Florida

Project's Engineer-of-Record for this "quick repair" to the existing asphalt surface through the use of an asphalt slurry sealant known within the industry as Grip Flex. The project's goal was to add a seal coat that would extend the longevity of the existing Runway's cross-section while major design modifications were considered for this Runway. The Project parameters were: 5,300LF of Runway area with defined seal coat areas and Runway striping modifications to be completed within 3-weeks of the early part of the Summer of 2009; in addition, consideration of timely NOTAMs (i.e., Notice to Airmen) were issued for Runway 13-31 close-out while work crossed the Runways' intersection. The heaviest rains on record had occurred within May of 2009 in Broward County which made the project schedule "interesting" to manage; work on the Runway took place throughout the day from Sun-up to Sundown, 7-days a week. Project was completed on-time and to the satisfaction of BCAD.



Dodie Keith-Lazowick, PLS

Technical Support Task Manager

FIRM

Keith & Associates, Inc.

EDUCATION

Bachelor of Science, Land
Surveying, University of
Florida, 1982

REGISTRATIONS

Professional Surveyor &
Mapper, Florida, United States,
No. 4105

INDUSTRY TENURE

35 years

K&A TENURE

35 years

OFFICE LOCATION

Pompano Beach, FL

Dodie Keith-Lazowick, with over 35 years of professional experience, and has supervised and provided complete development services of both public and private projects for commercial, industrial, transportation, aviation, marine, mixed-use and residential developments. She has particular expertise in governmental liaison and has been extremely successful as an advocate for the permitting and approvals of our projects due to her professional proactive approach. She has extensive experience in management of governmental contracts acting in an owner's rep, and construction manager capacity. She has extensive management experience on large governmental programs and understands the importance of meeting the needs of the owner from concept through implementation.

Dodie handles the daily operations of the firm. She serves as the Corporate Officer for all contracts, assuming responsibility for providing sufficient resource allocations and corporate commitment to our diverse client base. She is well known to the community and the agencies through her years of professional practice, local involvement and as a 55+ year resident of Broward County. Her extensive experience in South Florida has encompassed many phases of planning, design and construction including Civil Engineering, Surveying and Mapping, Comprehensive Land Planning, Landscape Architecture, Subsurface Utility Locations and Utility Coordination, and Construction Management. She is driven by new challenges and desire to be successful through hands-on, team-building management approach.

RELEVANT EXPERIENCE

Pompano Beach Air Park Master Drainage Plan, City of Pompano Beach Beach, *Pompano Beach, Florida*

Keith and Associates, Inc. served as a Sub-Consultant and was responsible for surveying, data collection and site reconnaissance, as well as performing permitting due diligence and permit processing coordination, expediting and assistance. The project consisted of field reconnaissance, surveys and reviews of all available City information and data affecting drainage and storm drainage infrastructure, preparation of analyses, design reports, feasibility studies and design alternative, recommendations, along with associated project cost estimated for related infrastructure improvements, update of the SWMPPP and recommendations for implementation,

monitoring and reporting, meetings and presentations before stakeholder groups, advisory boards and elected officials, preparation of required submittal packages for agency having jurisdiction.

City of Pompano Beach Beach & CRA Miscellaneous Engineering Services Contract, *Pompano Beach, Florida*

Keith and Associates has served as the General Engineering Consultant for the City of Pompano Beach for over twelve (12) years. Ms. Keith-Lazowick is the Contract Manager/Elected Officials Liason for the firm on an as needed basis. Many of the project assignments have been in the redevelopment of roadways, parking facilities and utility infrastructure design. All service of the firm are utilized including planning, civil engineering, surveying, subsurface

DODIE KEITH-LAZOWICK, PLS

utility engineering, and landscape architecture. Signature design and construction projects include:

- Martin Luther King Blvd Streetscape and Utility Improvements
- Old Historic Pompano Downtown Roadway & Utility Improvements
- Pompano Beach Blvd Streetscape, Utility and Dune Restoration Project
- Harbor Drive Beautification, Roadway and Utility Improvements
- Pompano Beach Sidewalk Construction Program
- Municipal Reclaimed Water Main Phase III Design and Construction
- SE 8th Court Bridge Replacement
- NE 27th Terrace Bridge Replacement
- Municipal Force Main Replacement SE 13th Street Design & Construction
- Pompano Airpark Master Drainage Plan
- Collier City Sanitary Sewer Improvements

BCAD General Engineering Consultant Airport Capital Improvement Program, Broward County, Florida

Ms. Keith-Lazowick served as the Contract Manager for multiple teams providing planning, engineering and construction services. Her ability to properly scope a project, meet schedule requirements and create reasonable budgets has been proven time and again through the multiple assignments under these contracts. Signature projects include: Taxiway C West Reconstruction Project, AGIS Safety Critical Airfield Signage Survey, Northern and Ravenswood Drainage Systems Analysis, Airfield Modification/High-Speed Exits, Obstruction Analysis, HWO Runway Ends 9R/27L, Westside Development Utility Certification Project, and Westside Cavity Study.

Fort Lauderdale/Hollywood

International Airport Expansion Program III (AEP3), Fort Lauderdale, Florida

Contract Manager for this Program providing construction inspection and engineering services as a sub-consultant to the Program Manager. Our construction administration team provided various CEI functions for construction projects under the County's airport expansion program. Projects that our inspectors have overseen include Terminals 2, 3 and 4 Interim Baggage Belt Reconfiguration, Taxiway C / Westside Infrastructure and Interim Roadways, Hibiscus Parking Garage Drainage System, On-Grade Parking Lots, Terminal Access Roadways, Interchange and Entrance Roadways, Terminal 1 Apron, and Taxiway B Extension. Ms Keith-Lazowick continues in her Principal-in-Charge capacity for our existing Construction Management contract for the \$48 million Terminal 4 Expansion Project.

FLL 10R/28L Runway Expansion Lead Design Team, Fort Lauderdale, Florida

As the Principal Contract Manager, responsible for the general oversight and coordination of 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 included 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, all surveying and mapping functions including Utility Coordination and Subsurface Utility Locations and identification. Project scope included both design and construction administration and civil engineering inspections to accept and certify the project.



References



References

HDR is proud of the repeat work on our aviation contracts. Our goal is to exceed all requirements for every project in a way that is responsive, quality and meets client goals. Below are client references, we encourage you to contact them and discuss our performance.

HDR CLIENT REFERENCES	
Project Name:	Fort Lauderdale Executive Airport (FXE) General Engineering Consultant
Contact Name, Email, Phone Number:	Fernando Blanco fblanco@fortlauderdale.gov (954) 828-6536
Scope:	HDR provides General Engineering and Construction Services to support FXE's current development programs via a four year on-call program.
Responsibilities:	HDR is leading a team of seven specialty sub-consultants providing a full range of Engineering, Architecture, Planning and Construction Services.
Cost:	\$2M to \$4M (4 year contract)

Project Name:	FXE Runway Incursion Mitigation (RIM) Program
Contact Name, Email, Phone Number:	Rufus James rjames@fortlauderdale.gov (954) 828-4968
Scope:	Assisted FXE in identifying, prioritizing and developing solutions aimed at mitigating risk in area determined by the FAA to prevent Runway Incursions.
Responsibilities:	HDR provided design services for airfield electrical, geometry, pavement and pavement marking improvements at selected locations.
Cost:	\$1.2M

Project Name:	FLL Terminal 4 Apron Civil Works
Contact Name, Email, Phone Number:	Marcos Souza masouza@broward.org (954) 359-2468
Scope:	The project will modify the existing airport terminal infrastructure as required to facilitate the Terminal 4 Gate Replacement project while expanding the apron to the east for RON parking.
Responsibilities:	HDR provided preliminary and final engineering and design services as well as construction plans and bid documents. HDR is currently providing "hands on" Construction Administration.
Cost:	\$40M

Project Name:	FLL Southwest Airlines Terminal One Modernization Program
Contact Name, Email, Phone Number:	John Murphy john.murphy@corgan.com (214) 757-1736

Scope:	HDR was to provide planning and design services to replace the current single taxiway to a dual one to facilitate simultaneous operations at Concourses B and the new A.
Responsibilities:	HDR was responsible for apron modification and design, taxiway design, drainage, water and sewer, FPL duct banks, roadway modifications and to obtain agency permits.
Cost:	\$100M

Project Name:	Broward County Aviation Department General Engineering Consultant
Contact Name, Email, Phone Number:	Marc Gambrill mgambrill@broward.org (954) 359-2343
Scope:	Range of projects include environmental engineering, 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.
Responsibilities:	The HDR team completed 35 task orders that were very diverse in scope and size, and have included design, studies and investigations on both airside and landside.
Cost:	\$9.3M (5 years)

CRJ AND ASSOCIATES CLIENT REFERENCES

Project Name:	Opa-Locka Executive Airport – Interior Service Road (S019A)
Contact Name, Email, Phone Number:	Robert Lopez robert@generalasphalt.com (305) 592-3480
Scope:	Project parameters were to design a new service road for fueling and with the concept of future development along the south side of OPF.
Responsibilities:	CRJ provided the geometry design, roadway typical section, plans production, stormwater permitting, MDAD Division 1 & Technical Specifications, Bid & Award as well as overseeing all facets of the 400-calendar days of the construction schedule.
Compensation:	\$316,000

Project Name:	Miami International Airport, Tank Farm Utilities Modifications (W016A)
Contact Name, Email, Phone Number:	Jacqueline Powell jpowell@miami-airport.com (305) 876-0424
Scope:	The project involves the first efforts in the conversion of MIA's Tank Farm from Landside to Airside.
Responsibilities:	CRJ was hired for this underground utility coordination effort between MDAD, FPL, AT&T and Allied Aviation Fueling of Miami, Inc. CRJ shall facilitate conceptual design, final design, bid documents, construction management and project close-out.
Compensation:	\$170,000

HILLERS ELECTRICAL ENGINEERING CLIENT REFERENCES	
Project Name:	PBIA Runway 10L-28R Pavement Rehabilitation
Contact Name, Email, Phone Number:	Cynthia Portnoy (561) 471-7411 cportnoy@pbia.org
Scope:	Hillers Electrical Engineering, Inc. provided design services for Runway 10L-28R (10,000 ft.), (22) taxiway connectors electrical & lighting systems, (300) in pavement lighting fixtures, guidance signage, FAA MALSR system, airfield lighting vault electrical and airfield lighting computer control monitoring system modifications, (8) runway guard lighting bar systems and (3) LAHSO systems. Hillers also provided construction administrative services which included shop drawings, RFI responses, and onsite full-time construction services.
Responsibilities:	Electrical Design and Construction Administration
Cost:	\$3M

THE JONES PAYNE GROUP CLIENT REFERENCES	
Project Name:	FLL Noise Mitigation Assistance Program
Contact Name, Email, Phone Number:	Richard Lauricella rlauricella@broward.org (954) 359-2452
Scope / Responsibilities:	Program management, noise mitigation planning, design, construction management, community outreach and information management and GIS services.
Cost:	\$116M (Construction); \$12M (JPG Fee)

Prior Projects Performed for the City of Pompano Beach

HDR has not had the pleasure to work on any projects for your City, however John Neff, PE, our proposed project manager has worked on the following projects for your city prior to joining HDR:

- Anthony Aviation Pump Station
- Reils on 5/23
- Taxiway Lima
- Taxiway M and RW 5 Hold Area
- RW 15/33 Rehabilitation
- Airfield Signage and Lighting Phases 1, 2, 3 and 4
- Runway 15/33 Pavement Study
- CIP and Noise Map Updates
- Suncoast Taxilane for American Flyers
- Naviads and Airfield Circuitry
- Parcel Y-Y Plat
- Parcel B-B Site Plan Review

In addition to John Neff's experience, the following teaming partners have performed on the following projects for your City:

Keith & Associates, Inc.

- Pompano Air Park Maintenance Building Design
- Pompano Air Park Master Drainage Plan
- Harbor Drive Beautification & Roadway Improvements
- Pompano Beach Sidewalk Construction Program
- Municipal Reclaimed Water Main Design
- Force Main Replacement Design
- Pompano Beach Branch Library Renovations
- Municipal Pier Renovations
- SE 8th Court Bridge Replacement
- Reuse Water Main Distribution System
- Municipal Dog Park
- Oceanside Fire Station #11
- Municipal Golf Course Renovations
- NE 4th Street Reuse Water Line Expansion
- Sand & Spurs Park
- Founders Park
- Condition Assessments for Various City Owned Buildings & Facilities
- Pompano Beach Boulevard Water Main Design
- Fire Station 103 Design, Site Plan and Permitting services
- Municipal Chiller Plant
- Pompano Beach HUD Loan Assistance for Old Pompano Area
- South Cypress Road & SE 15th Court Intersection Design Survey
- Municipal Cemetery Survey
- Harbor Drive Beautification Surveys
- Pompano Beach Library Branch Topographic Survey
- Oceanside Fire Station #11 Boundary Survey, Drainage Survey and Plat
- SE 8th Court Bridge Replacement Survey
- SE 13th Street Force Main Design Survey
- SE 10th Street Riverside Drive Drainage Study Data Collection Survey
- Rustic Bridge Park Design Survey
- Municipal Dog Park Topographic Survey
- Palm Aire Park Topographic Survey
- Municipal Generator Installation Design Survey
- Municipal Golf Course Survey

- Utility Casting Federal Highway Design Survey
- SE 9th Avenue Bridge Replacement Design Survey
- NE 4th Street Specific Purpose Survey
- SR A1A Survey and Subsurface Utility Engineering (SUE) services from Hillsboro Blvd to Terra Mar Drive
- Permanent Emergency Generators Design Survey for City Hall and Public Safety Building
- Santa Barbara Reuse Water Line Expansion Topographic Survey
- GIS Mapping Pilot Project
- 12th Avenue Proposed Fire Station Design Survey
- North Riverside Drive Directional Drill Survey & Subsurface Utility Engineering (SUE) services
- Municipal Chiller Plant Survey
- North Ocean Park Topographic Survey
- Hillsboro Bay Foot Bridge Design Survey
- Civic Campus/Old Pompano Topographic Survey and Updated Surveys
- Intracoastal Waterway Sign Surroundings Specific Purpose Survey
- Briny Avenue Survey and Subsurface Utility Engineering Services
- SW 9th Street Right-of-Way Stake Out Survey Services

Tierra South Florida, Inc.

- NE 27th Terrace Bridge Replacement
- Relocation of Taxiway Kilo - Pompano Beach Airpark
- Indian Mound Park Jib Crane Pad
- SW 36th Avenue Pedestrian Bridge and Path
- Lift Station 21



Office Locations

Office Locations

HDR	
Primary Office Location:	3250 W. Commercial Blvd, Suite 100 Fort Lauderdale, Florida 33309
Number of Professional Staff at Primary Office:	30
Number of Administrative Staff at Primary Office:	2
KEITH AND ASSOCIATES	
Primary Office Location:	301 E. Atlantic Blvd Pompano Beach, Florida 33060
Number of Professional Staff at Primary Office:	73
Number of Administrative Staff at Primary Office:	9
CRJ AND ASSOCIATES	
Primary Office Location:	2699 Stirling Road, Suite B-201 Fort Lauderdale, Florida 33312
Number of Professional Staff at Primary Office:	2
Number of Administrative Staff at Primary Office:	1
HILLERS ELECTRICAL ENGINEERING, INC.	
Primary Office Location:	23257 State Road 7, Suite 100 Boca Raton, Florida 33428
Number of Professional Staff at Primary Office:	13
Number of Administrative Staff at Primary Office:	1
TIERRA SOUTH FLORIDA, INC.	
Primary Office Location:	2765 Vista Parkway, Suite 10 West Palm Beach, Florida 33411
Number of Professional Staff at Primary Office:	42
Number of Administrative Staff at Primary Office:	7
THE JONES PAYNE GROUP, INC.	
Primary Office Location:	7040 Seminole Pratt Whitney Road, Suite 25-26 West Palm Beach, Florida 33470
Number of Professional Staff at Primary Office:	2
Number of Administrative Staff at Primary Office:	1



K

Local Businesses

REQUESTED INFORMATION BELOW IS ON LOCAL BUSINESS PROGRAM AND SMALL BUSINESS ENTERPRISE FORM ON THE BID ATTACHMENTS TAB. BIDDERS ARE TO COMPLETE FORM IN ITS ENTIRETY AND INCLUDE COMPLETED FORM IN YOUR PROPOSAL THAT MUST BE UPLOADED TO THE RESPONSE ATTACHMENTS TAB IN THE EBID SYSTEM.

EXHIBIT A
CITY OF POMPANO BEACH, FLORIDA
LOCAL BUSINESS PARTICIPATION FORM

L-54-16 Continuing Contract for Professional Engineering
and Consulting Services for the Municipal Air Park

Prime Contractor's Name: HDR Engineering, Inc.

<u>Name of Firm, Address</u>	<u>Contact Person, Telephone Number</u>	<u>Type of Work to be Performed</u>	<u>Contract Percentage</u>
Keith and Associates, Inc., 30 E. Atlantic Blvd, Pompano Beach, FL 33060	Dodie Keith-Lazowick (954) 788-3400	Survey, SUE, Utilities, Construction Services	29%



EXHIBIT B
LOCAL BUSINESS
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

RLI Number L-54-16

TO: HDR
(Name of Prime or General Bidder)

The undersigned City of Pompano Beach business intends to perform subcontracting work in connection with the above contract as (check below)

☐ an individual

☒ a corporation

☐ a partnership

☐ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Survey, Subsurface Utility Engineering, Utility Coordination, Landscape Architecture, Construction

Administration, Public Involvement

8/2/16

(Date)

Keith and Associates, Inc.

(Name of Local Business Contractor)

301 East Atlantic Boulevard

(address)

Pompano Beach, FL 33060

(address City, State Zip Code)

BY: 

(Name)



**CITY OF POMPANO BEACH
BUSINESS TAX RECEIPT
FISCAL YEAR: 2015-2016**

THIS IS NOT A BILL

Business Tax Receipt Valid from: October 1, 2015 through September 30, 2016

8/19/2015

4441644
GUINAUGH, MICHAEL
301 E ATLANTIC BL

POMPANO BEACH FL 33060

THIS IS YOUR BUSINESS TAX RECEIPT. PLEASE POST IN A CONSPICUOUS PLACE AT THE
BUSINESS LOCATION.

BUSINESS OWNER: KEITH AND ASSOCIATES INC
BUSINESS LOCATION: 301 E ATLANTIC BL POMPANO BEACH FL

REGISTRATION NO:	CLASSIFICATION
16-00065637	PROFESSIONAL-ENGINEER (PROF,CIVIL,ELECT)

NOTICE: A NEW APPLICATION MUST BE FILED IF THE BUSINESS NAME, OWNERSHIP OR ADDRESS IS CHANGED. THE ISSUANCE OF A BUSINESS TAX RECEIPT SHALL NOT BE DEEMED A WAIVER OF ANY PROVISION OF THE CITY CODE NOR SHALL THE ISSUANCE OF A BUSINESS TAX RECEIPT BE CONSTRUED TO BE A JUDGEMENT OF THE CITY AS TO THE COMPETENCE OF THE APPLICANT TO TRANSACT BUSINESS.

BUSINESS TAX RECEIPTS EXPIRE SEPTEMBER 30TH OF EACH YEAR



**CITY OF POMpano BEACH
BUSINESS TAX RECEIPT
FISCAL YEAR: 2015-2016**

THIS IS NOT A BILL

Business Tax Receipt Valid from: October 1, 2015 through September 30, 2016

8/19/2015

4441589
KEITH AND ASSOCIATES INC
301 E ATLANTIC BL

POMpano BEACH FL 33060

THIS IS YOUR BUSINESS TAX RECEIPT. PLEASE POST IN A CONSPICUOUS PLACE AT THE BUSINESS LOCATION.

BUSINESS OWNER: KEITH AND ASSOCIATES INC
BUSINESS LOCATION: 301 E ATLANTIC BL POMpano BEACH FL

REGISTRATION NO: 16-00065569
CLASSIFICATION: PROFESSIONAL OFFICE (SEE REQUIREMENTS)

NOTICE: A NEW APPLICATION MUST BE FILED IF THE BUSINESS NAME, OWNERSHIP OR ADDRESS IS CHANGED. THE ISSUANCE OF A BUSINESS TAX RECEIPT SHALL NOT BE DEEMED A WAIVER OF ANY PROVISION OF THE CITY CODE NOR SHALL THE ISSUANCE OF A BUSINESS TAX RECEIPT BE CONSTRUED TO BE A JUDGEMENT OF THE CITY AS TO THE COMPETENCE OF THE APPLICANT TO TRANSACT BUSINESS.

BUSINESS TAX RECEIPTS EXPIRE SEPTEMBER 30TH OF EACH YEAR



**CITY OF POMPANO BEACH
BUSINESS TAX RECEIPT
FISCAL YEAR: 2015-2016**

THIS IS NOT A BILL

Business Tax Receipt Valid from: October 1, 2015 through September 30, 2016

8/19/2015

4441643
KEITH-LAZOWICK, A DODIE
301 E ATLANTIC BL

POMPANO BEACH FL 33060

THIS IS YOUR BUSINESS TAX RECEIPT. PLEASE POST IN A CONSPICUOUS PLACE AT THE
BUSINESS LOCATION.

BUSINESS OWNER: KEITH AND ASSOCIATES INC
BUSINESS LOCATION: 301 E ATLANTIC BL POMPANO BEACH FL

REGISTRATION NO:	CLASSIFICATION
16-00065636	PROFESSIONAL-SURVEYOR (LAND/MARINE)

NOTICE: A NEW APPLICATION MUST BE FILED IF THE BUSINESS NAME, OWNERSHIP OR ADDRESS IS CHANGED. THE ISSUANCE OF A BUSINESS TAX RECEIPT SHALL NOT BE DEEMED A WAIVER OF ANY PROVISION OF THE CITY CODE NOR SHALL THE ISSUANCE OF A BUSINESS TAX RECEIPT BE CONSTRUED TO BE A JUDGEMENT OF THE CITY AS TO THE COMPETENCE OF THE APPLICANT TO TRANSACT BUSINESS.

BUSINESS TAX RECEIPTS EXPIRE SEPTEMBER 30TH OF EACH YEAR

Not Applicable

EXHIBIT C
LOCAL BUSINESS
UNAVAILABILITY FORM

RLI # _____

I, _____
(Name and Title)

of _____, certify that on the _____ day of

_____, _____, I invited the following LOCAL BUSINESSES to bid work
(Month) (Year)

items to be performed in the City of Pompano Beach.

Business Name, Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Said Local Businesses:

- _____ Did not bid in response to the invitation
- _____ Submitted a bid which was not the low responsible bid
- _____ Other: _____

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

EXHIBIT D
GOOD FAITH EFFORT REPORT
LOCAL BUSINESS PARTICIPATION

RLI # L-54-16

1. What portions of the contract have you identified as Local Business opportunities?

Survey, SUE, Utilities, Construction phase services

2. Did you provide adequate information to identified Local Businesses? Please comment on how you provided this information.

Yes. They were provided a copy of the RLI as well as the scope of services.

3. Did you send written notices to Local Businesses?

 Yes X No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.

4. Did you advertise in local publications?

 Yes X No

If yes, please attach copies of the ads, including name and dates of publication.

5. What type of efforts did you make to assist Local Businesses in contracting with you?

We contacted Keith and Associates, as we have teamed with them on a number of projects

7. List the Local Businesses you will utilize and subcontract percentage of work.

Keith and Associates, Inc.

29%



LOCAL BUSINESS EXHIBIT “D” – Page 2

Local Business

% of Work

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

8. Other comments: _____



Small Business Enterprises



EXHIBIT "E"
CITY OF POMPAÑO BEACH, FLORIDA
SMALL BUSINESS ENTERPRISE PARTICIPATION FORM

L-54-16 Continuing Contract for Professional Engineering and Consulting Services for the Municipal Air Park
RLI Number & Title: _____ Contractor's Name: HDR Engineering, Inc.

Name of Firm, Address	Contact Person, Telephone Number	Type of Work to be Performed	Contract Percentage
CRJ and Associates, Inc., 2699 Stirling Road, Suite B-201 Fort Lauderdale, Florida 33312	Marc Fermanian (954) 239-4330	Construction services	10%
Tierra South Florida, Inc., 2765 Vista Parkway, Suite 10, West Palm Beach, FL 33411	Raj Krishnasamy (561) 687-8536	Geotechnical and Materials Testing	5%

(INCLUDE CERTIFICATES FOR ANY FIRMS LISTED ON THIS PAGE)

FOR CITY USE ONLY

Total SBE Contract Participation _____

Are documents requested submitted accordingly YES NO

EXHIBIT "F"
SMALL BUSINESS ENTERPRISE
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

RLI Number L-54-16

TO: HDR, Inc.
(Name of Prime or General Contractor)

The undersigned intends to perform subcontracting work in connection with the above contract as (check below)

 an individual

☒ a corporation

 a partnership

 a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

8/1/16
(Date)

CRJ & Associates, Inc.
(Name of SBE Contractor)

2699 Stirling Road, Suite B201
(address)

Ft. Lauderdale, FL 33312
(address City State Zip Code)


BY: 
Marc A. Fermanian



EXHIBIT "F"
SMALL BUSINESS ENTERPRISE
LETTER OF INTENT TO PERFORM AS A SUBCONTRACTOR

RLI Number L-54-16

TO: HDR, Inc

(Name of Prime or General Contractor)

The undersigned intends to perform subcontracting work in connection with the above contract as (check below)

☐ an individual

X ☒ a corporation

☐ a partnership

☐ a joint venture

The undersigned is prepared to perform the following work in connection with the above Contract, as hereafter described in detail:

Geotechnical Engineering Services

8/2/2016

(Date)

Tierra South Florida, Inc.

(Name of SBE Contractor)

2765 Vista Parkway, Suite 10

(address)

West Palm Beach, FL 33411

(address City, State Zip Code)

BY: 

(Name)

RAJ KRISHNA SANY, P.E.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

REGISTERED VENDOR NO.: 115348

April 8, 2014

Mr. Raj Krishnasamy, P.E., President
Tierra South Florida, Inc.
2765 Vista Parkway, Suite 10
West Palm Beach, FL 33411

CERTIFICATION EXPIRATION DATE
April 8, 2017

Dear Mr. Krishnasamy:

Congratulations, the South Florida Water Management District (District) has certified your firm as a Small Business Enterprise (SBE). This certification is valid for three (3) years and may only be applied when business is conducted in the following area(s):

Professional Engineering Consulting Services

Your submittal of bids or proposals to supply other products or services outside of the specialty area(s) noted above will not count toward SBE participation. If you require certification in other specialty areas, please contact the Procurement Bureau, SBE Section, for additional information.

Renewal is required every three (3) years and should be requested a minimum of 45 days prior to the above expiration date.

If any changes occur within your company during the certification period such as ownership, affiliate company status, address, telephone number, licensing status, gross revenue, or any information that relates to your SBE Certification status, you must notify this office in writing immediately. It is imperative that we maintain current information on your company at all times. **FAILURE TO REPORT CHANGES MAY RESULT IN DECERTIFICATION.**

Certification is not a guarantee that your firm will receive work, nor an assurance that your firm will remain in the District's vendor database.

We look forward to a mutually beneficial working relationship.

Sincerely,

A handwritten signature in blue ink that reads "Colleen M. Robbs".

Colleen M. Robbs
Sr. Compliance Specialist
Procurement Bureau

/cr

A red rectangular stamp with the letters "EOE" at the top and the date "4/10/14" in the center.

Not Applicable

EXHIBIT "G"
SMALL BUSINESS ENTERPRISE
UNAVAILABILITY FORM

RLI # _____

I, _____
(Name and Title)

of _____, certify that on the _____ day of

_____, I invited the following SBE CONTRACTOR(s) to bid work
(Month) _____ (Year) _____

items to be performed in the City of Pompano Beach.

SBE Contractor Address	Work Items Sought	Form of Bid Sought (i.e., Unit Price, Materials/Labor, Labor Only, etc.)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Said SBE CONTRACTOR(s):

_____ Did not bid in response to the invitation

_____ Submitted a bid that was not the low responsible bid

_____ Other: _____

Name and Title: _____

Date: _____

Note: Attach additional documents as available.

EXHIBIT "H"
SMALL BUSINESS ENTERPRISE
GOOD FAITH EFFORT REPORT

RLI # L-54-16

1. What portions of the contract have you identified as SBE opportunities?
Construction services , geotechnical and materials testing.
2. Did you provide adequate information to identified SBE? Please comment on how you provided this information.
Yes. They were provided a copy of the RLI as well as the scope of services.
3. Did you send written notices to SBEs?

Yes X No

If yes, please include copy of the notice and the list of individuals who were forwarded copies of the notices.
4. Did you advertise in local publications?

Yes X No

If yes, please attach copies of the ads, including name and dates of publication.
5. Did you contact any organizations with large constituents of SBE members for possible sub-contractors? Please attach list of resource organizations used.
6. What type of efforts did you make to assist SBEs in contracting with you?
We contacted Tierra South Florida and CRJ and Associates as we have teamed with them on a
number of projects.
7. List the SBEs you will utilize and subcontract percentage of work.

Tierra South Florida, Inc.	5%
CRJ and Associates, Inc.	10%



SBE EXHIBIT "H" – Page 2

<u>SBE Name</u>	<u>% of Work</u>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

8. Other comments:

-
-
-
-

Note: Please attach the unavailability letters with this report.



M

Litigation

Litigation

In today's legal environment, claims and litigation are a reality for any large participant in the construction industry. When claims do occur, HDR seeks to be proactive and cooperate with our client in reaching a resolution that is fair and reasonable to all. We also value the confidences of our clients as well as our contractual commitments to confidentiality, and do not discuss with third parties the circumstances involving other projects. We would take the same position with information regarding our work on your project. If necessary, we would be willing to meet in person with your selection committee with appropriate confidentiality agreements, to discuss the merits or background of past claims. There are no claims or litigation that would have a material impact on our financials or our ability to perform your project. HDR has maintained professional liability insurance in force continually since 1958 for the protection of us and our clients.



N

**Minority Business
Enterprises**

REQUESTED INFORMATION BELOW IS ON THE MINORITY BUSINESS ENTERPRISE PARTICIPATION FORM ON THE BID ATTACHMENTS TAB. BIDDERS ARE TO COMPLETE FORM IN ITS ENTIRITY AND UPLOAD COMPLETED FORM TO THE EBID SYSTEM

EXHIBIT I

MINORITY BUSINESS ENTERPRISE PARTICIPATION

RLI # L-54-16

List all members of your team that are a certified Minority Business Enterprise (as defined by the State of Florida.) You must include copies of the MBE certificates for each firm listed with your electronic submittal.

Name of Firm	Certificate Included?
Hillers Electrical Engineering, Inc.	Yes
Tierra South Florida, Inc.	Yes

State of Florida

Minority, Women & Florida Veteran Business Certification

Hillers Electrical Engineering Inc

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

11/23/2015 to 11/23/2017




Chad Poppell, Secretary
Florida Department of Management Services



Office of Supplier Diversity • 4050 Esplanade Way, Suite 380 • Tallahassee, FL 32399 • 850-487-0915 • www.osd.dms.state.fl.us

State of Florida

Minority, Women & Florida Veteran Business Certification

Tierra South Florida, Inc.

Is certified under the provisions of
287 and 295.187, Florida Statutes, for a period from:

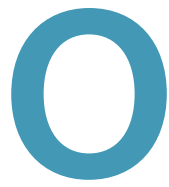
11/30/2015 to 11/30/2017




Chad Poppell, Secretary
Florida Department of Management Services



Office of Supplier Diversity • 4050 Esplanade Way, Suite 380 • Tallahassee, FL 32399 • 850-487-0915 • www.osd.dms.state.fl.us



City Forms

City Forms

All of the required forms can be found in the following locations in our response package:

Project Team Form

Section E - Project Team Form

Exhibit A - Local Participation Form

Section K - Local Businesses

Exhibit B - Local Business Letter of Intent to Perform as a Subcontractor

Section K - Local Businesses

Exhibit C - Local Business Unavailability Form

Section K - Local Businesses

Exhibit D - Good Faith Effort Report Local Business Participation Form

Section K - Local Businesses

Exhibit E - Small Business Enterprise Participation Form

Section L - Small Business Enterprises

Exhibit F - Small Business Enterprise Letter of Intent to Perform as a Subcontractor

Section L - Small Business Enterprises

Exhibit G - Small Business Enterprise Unavailability Form

Section L - Small Business Enterprises

Exhibit H - Small Business Enterprise Good Faith Effort Report

Section L - Small Business Enterprises

Exhibit I - Minority Business Enterprise Participation Form

Section N - Minority Business Enterprises



P

Insurance



CERTIFICATE OF LIABILITY INSURANCE

6/1/2017

DATE (MM/DD/YYYY)
5/25/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000		CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS:															
INSURED 1013472 HDR ENGINEERING, INC. 8404 INDIAN HILLS DRIVE OMAHA, NE 68114-4049		<table border="1"> <thead> <tr> <th>INSURER(S) AFFORDING COVERAGE</th> <th>NAIC #</th> </tr> </thead> <tbody> <tr> <td>INSURER A: Hartford Fire Insurance Company</td> <td>19682</td> </tr> <tr> <td>INSURER B: Travelers Property Casualty Co of America</td> <td>25674</td> </tr> <tr> <td>INSURER C: American Zurich Insurance Company</td> <td>40142</td> </tr> <tr> <td>INSURER D: Lexington Insurance Company</td> <td>19437</td> </tr> <tr> <td>INSURER E:</td> <td></td> </tr> <tr> <td>INSURER F:</td> <td></td> </tr> </tbody> </table>		INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A: Hartford Fire Insurance Company	19682	INSURER B: Travelers Property Casualty Co of America	25674	INSURER C: American Zurich Insurance Company	40142	INSURER D: Lexington Insurance Company	19437	INSURER E:		INSURER F:	
INSURER(S) AFFORDING COVERAGE	NAIC #																
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INSURER C: American Zurich Insurance Company	40142																
INSURER D: Lexington Insurance Company	19437																
INSURER E:																	
INSURER F:																	

COVERAGES IIDRIN01 **CERTIFICATE NUMBER:** 312366 **REVISION NUMBER:** XXXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE		ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS			
A	<input checked="" type="checkbox"/>	COMMERCIAL GENERAL LIABILITY	N	N	37CSEQU0950	6/1/2016	6/1/2017	EACH OCCURRENCE	\$ 1,000,000		
	<input type="checkbox"/>	CLAIMS-MADE						<input checked="" type="checkbox"/>	OCCUR	PREMISES (Ea occurrence)	\$ 1,000,000
	<input checked="" type="checkbox"/>	CONTRACTUAL LIAB INC						MED EXP (Any one person)	\$ 10,000		
								PERSONAL & ADV INJURY	\$ 1,000,000		
	GEN'L AGGREGATE LIMIT APPLIES PER:							GENERAL AGGREGATE	\$ 2,000,000		
	<input type="checkbox"/>	POLICY	<input checked="" type="checkbox"/>	PROJECT	<input checked="" type="checkbox"/>	LOC	PRODUCTS - COM/OP AGG	\$ 2,000,000			
	OTHER:								\$		
A A A	<input checked="" type="checkbox"/>	AUTOMOBILE LIABILITY	N	N	37CSEQU0951 (AOS) 37CSEQU0952 (HI) 37CSEQU1160 (MA)	6/1/2016 6/1/2016 6/1/2016	6/1/2017 6/1/2017 6/1/2017	COMBINED SINGLE LIMIT (Ea accident)	\$ 2,000,000		
	<input checked="" type="checkbox"/>	ANY AUTO						<input type="checkbox"/>	SCHEDULED AUTOS	BODILY INJURY (Per person)	\$ XXXXXXXX
	<input type="checkbox"/>	ALL OWNED AUTOS						<input type="checkbox"/>	NON-OWNED AUTOS	BODILY INJURY (Per accident)	\$ XXXXXXXX
	<input checked="" type="checkbox"/>	HIRED AUTOS						<input checked="" type="checkbox"/>		PROPERTY DAMAGE (Per accident)	\$ XXXXXXXX
										\$ XXXXXXXX	
B B	<input checked="" type="checkbox"/>	UMBRELLA LIAB	N	N	ZUP-10R64084-16-NF (EXCLUDES PROF LIAB)	6/1/2016 6/1/2016	6/1/2017 6/1/2017	EACH OCCURRENCE	\$ 1,000,000		
	<input type="checkbox"/>	EXCESS LIAB						<input type="checkbox"/>	OCCUR CLAIMS-MADE	AGGREGATE	\$ 1,000,000
	<input type="checkbox"/>	DED						<input type="checkbox"/>	RETENTION \$		\$ XXXXXXXX
C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY		Y/N	N/A	0381127	7/1/2016	7/1/2017	<input checked="" type="checkbox"/> PER STATUTE	<input type="checkbox"/> OTHER		
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)										
	If yes, describe under DESCRIPTION OF OPERATIONS below										
	E.L. EACH ACCIDENT	\$ 1,000,000									
D	ARCHS & ENGS PROFESSIONAL LIABILITY		N	N	061853691	6/1/2016	6/1/2017	E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000		
								E.L. DISEASE - POLICY LIMIT	\$ 1,000,000		
								PER CLAIM: \$1,000,000 AGGREGATE: \$1,000,000			

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER 312366 FOR INFORMATION PURPOSES ONLY	CANCELLATION SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE
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