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March 18, 2014

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

RE: RFQ Number: #946-11300
FAA AIP No. 3-12-0024-028-2013
City Project Number: 11916
Fort Lauderdale Executive Airport Sustainability Master Plan

Dear Mr. Archey:

HDR is pleased to submit this Letter of Interest for the above referenced project at the Ft. Lauderdale Executive Airport.

We have assembled an outstanding team that can provide excellent client service and industry-leading technical expertise to help the City of Ft. Lauderdale fulfill its deliverable requirements to the FAA for the Sustainable Management Plan program and help facilitate the City's Sustainability Vision.

Our team offers the following benefits to Fort Lauderdale Executive Airport:

- Industry leadership in Sustainability Vision, Measurement and Implementation.
- Proven, responsive, Ft. Lauderdale-based project management.
- Substantial depth of Aviation Design and Planning expertise.
- South Florida focused Public Involvement experience.
- Technical expertise and support from over 180 HDR offices worldwide.

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

Respectfully Submitted,

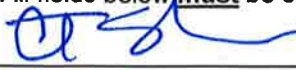
Charles T. Sinclair, PE
Senior Vice President, HDR Engineering, Inc.
chuck.sinclair@hdrinc.com
(954) 647-4542

BID/PROPOSAL SIGNATURE PAGE

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

The below signed hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the CITY and such acceptance covers all terms, conditions, and specifications of this bid/proposal.

Please Note: All fields below must be completed. If the field does not apply to you, please note N/A in that field.

Submitted by:  03/17/2014
(signature) (date)

Name (printed) Charles T. Sinclair Title: Senior Vice President

Company: (Legal Registration) HDR Engineering, Inc.

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

Address: 3250 West Commercial Blvd. Suite 100

City Fort Lauderdale State: FL Zip 33309

Telephone No. 954-647-4542 FAX No. _____ Email: chuck.sinclair@hdrinc.com

Delivery: Calendar days after receipt of Purchase Order (section 1.02 of General Conditions): N/A

Payment Terms (section 1.04): N/A Total Bid Discount (section 1.05): N/A

Does your firm qualify for MBE or WBE status (section 1.09): MBE WBE

ADDENDUM ACKNOWLEDGEMENT - Proposer acknowledges that the following addenda have been received and are included in the proposal:

<u>Addendum No.</u>	<u>Date Issued</u>
No. 1	02/27/2014

VARIANCES: State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. **HAVE YOU STATED ANY VARIANCES OR EXCEPTIONS BELOW? BIDDER MUST CLICK THE EXCEPTION LINK IF ANY VARIATION OR EXCEPTION IS TAKEN TO THE SPECIFICATIONS, TERMS AND CONDITIONS.** If this section does not apply to your bid, simply mark N/A in the section below.

Variences:

revised 11-29-11



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QUALIFICATIONS OF FIRM

HDR is one of the premier engineering and architecture firms in the country. Engineering News Record (ENR) consistently ranks HDR among the top firms in almost every category related to infrastructure and environment. **Engineering News-Record (ENR) has ranked HDR as No. 35 in the top Green Building design firms and No. 11 in the top Domestic Design Firms.** Today, our 8,600 employee-owners offer unique and integrated expertise from more than 185 offices worldwide. HDR has been part of the Florida landscape since opening an office here in 1974. Today, HDR has offices in Miami, Fort Lauderdale, West Palm Beach, Jacksonville, Lake City, Orlando, Panama City, Pensacola, Sarasota and Tampa. More than 350 HDR employees in Florida offer a full range of engineering, architectural, environmental, community planning and construction management consulting services to both public and private sector clients.



History and Size

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

HDR OFFERS WORLD CLASS EXPERTISE DELIVERED THROUGH A STRONG LOCAL PRACTICE

HDR provides a full spectrum of services for our clients. Our staff of professionals represents hundreds of disciplines that partner on blended teams worldwide to provide solutions beyond the scope of traditional A/E/C firms. HDR's operating philosophy is to be an expertise-driven firm that delivers tailored solutions through a strong local presence. HDR's ability to draw upon companywide resources and expertise is a great strength in meeting and exceeding your expectations.

LOCAL DELIVERY

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

AVIATION EXPERTISE

A leading Aviation planning and design firm, HDR employs nearly 50 full-time, aviation engineering professionals, nationally. This includes one of HDR's Regional Aviation Design Centers in our Fort Lauderdale office which consists of 25 full service professionals. HDR's Aviation Practice offers a complete range of vital services, from master planning, terminal and infrastructure design, to economic studies, environmental work and program delivery services.

SUSTAINABILITY EXPERTISE

HDR offers our clients the best possible economic, social and environmental value by delivering integrated sustainable solutions, both in the projects we deliver to clients and in the way we conduct our business.

Our visionary thinking is clearly illustrated in our early adoption of sustainability principles. More than two decades ago, we formally established a Sustainability Program tasked with integrating sustainability into all of our business practices. We employ sustainability specialists in most areas impacting the built and natural environments. These experts are leaders in areas such as climatology, meteorology, economics, natural resources, renewable energy, sustainability rating systems such as LEED and Envision, commissioning, greenhouse gas (GHG) measurement and verification and community planning. Providing clients with high-performance solutions that are good for their businesses, good for their communities and good for the planet are always top priorities.

Economic sustainability is a key component of the triple bottom line—ensuring that projects meet the needs of the environment, community and economy today and into the future. HDR's Decision Economics group has the expertise to develop, test and utilize a variety of economic and environmental models for every conceivable form of a sustainable design project.



HDR'S INTERNAL SUSTAINABLE BUSINESS PRACTICES...HOW WE WALK THE TALK ON SUSTAINABILITY

HDR puts a strong emphasis on sustainability at all levels of the company. We believe it's our professional responsibility to our employees, clients, the industry and the environment to challenge conventional thinking as we create places that are good for our clients, our communities and our planet. HDR's Sustainability Vision guides our decisions related to sustainability. As part of our company's strategic planning process the vision is updated regularly to ensure that the company is at the forefront

of sustainable business practices. HDR began the process of addressing our organization's environmental impacts over 10 years ago. We have focused on understanding our most significant impacts as a service organization, and are aggressively working to reduce our carbon footprint by improving operational efficiencies, engaging staff participation to green our offices, and developing sustainable solutions in the areas where we have the most significant impacts.

Currently, the dominant sustainability metric in our industry is the amount of carbon dioxide emitted to the atmosphere. To that end, we specifically have stated a goal of reducing our own GHG emission levels 20% by 2020 from our 2011 baseline, adjusted for growth.

HDR AREAS OF SPECIALIZATION AND SUSTAINABILITY DIFFERENTIATORS

HDR Environmental Policy Statement

We recognize the value of environmentally responsible practices to our clients, employee owners and to our communities. We are committed to reducing our environmental impact and increasing employee skills to accomplish the evolving environmental expectations of our key stakeholders.

Our actions are guided by the following principles:

- *Create technically credible and positive environmental, social and economic benefits for the communities where clients and employee-owners live, work and play.*
- *Reduce fossil-fuel use, water consumption and waste generation.*
- *Use financial resources efficiently on behalf of employee-owners and clients.*
- *Capture opportunities to support client programs in order to help them meet their sustainability goals.*
- *Provide technical opportunities and resources for our staff to increase sustainability related expertise.*
- *Steadily improve company operations and efficiency.*
- *Track the environmental benefits of our projects.*
- *Make decisions using the evaluation of environmental, economic and social equity whenever possible.*

SUSTAINABILITY PLANNING AND REPORTING EXPERIENCE

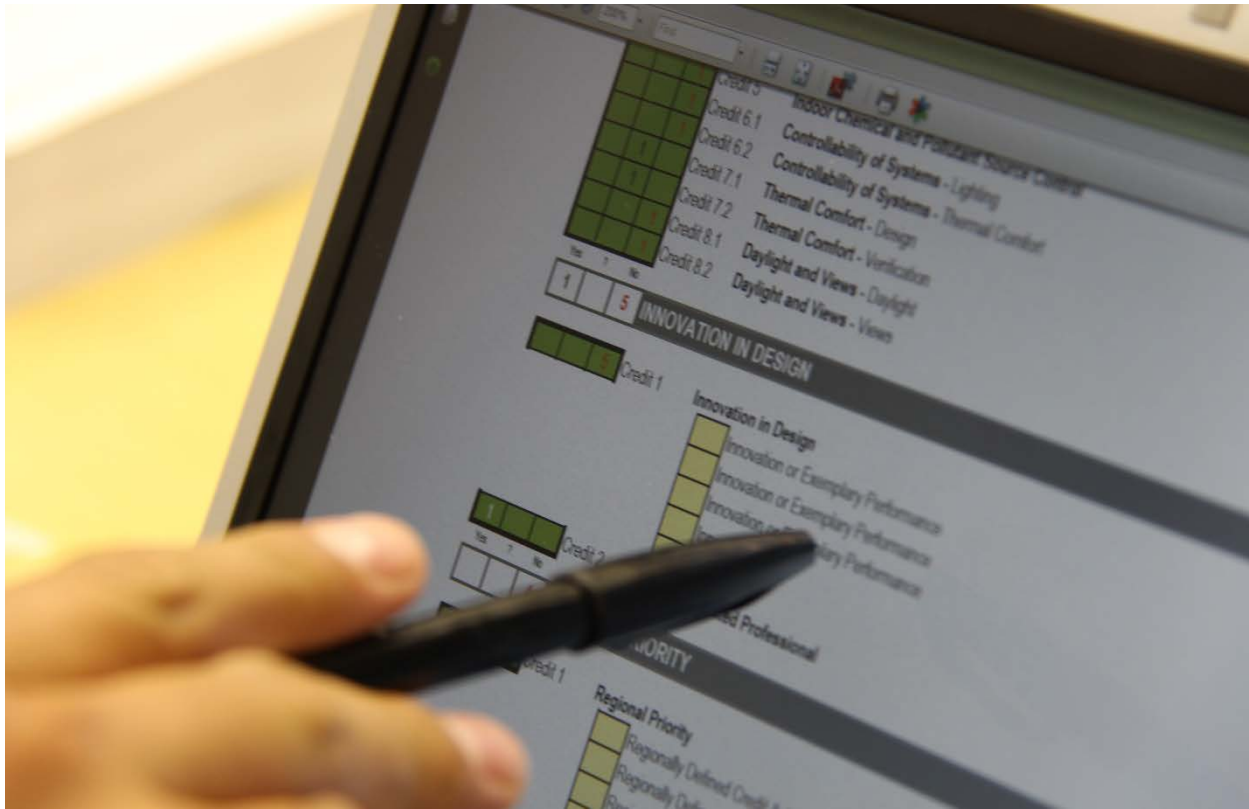
HDR offers comprehensive sustainability planning services for public and private sector clients to meet voluntary goals or regulatory requirements. Our services include sustainability visioning and goal-setting, development of a sustainability baseline, identification of strategies to meet sustainability goals, prioritization of strategies based on sustainable benefits using HDR's Sustainable Return on Investment (SROI) methodology, development of implementation plans, monitoring and reporting progress towards meeting goals, and development of corporate sustainability reports based on the Global Reporting Initiative (GRI) framework. HDR not only has the qualifications to develop a SMP, but also has experience in every aspect of the built and natural environment to design and engineer projects. We have designed an approach to sustainability planning based on best practices and experience, which is then tailored to each client's specific needs, interest and vision. As appropriate, the plan incorporates

the sustainability planning and design experience from HDR engineers, planners, and architects, as well other key capabilities such as GIS, public involvement, decision economics and GHG accounting.

For example:

HDR is working for the City of Phoenix providing on-call services to support sustainability efforts at Sky Harbor Airport. Recently, HDR provided LEED Accredited Professional training for airport and city personnel. HDR conducted a series of workshops and presentations, and approximately 30 employees received on-site training and manuals to LEED requirements, credits and calculations for site development, water, energy, materials and indoor environmental quality. Another task order has HDR assisting City personnel with LEED Existing Buildings Operations and Maintenance certification process.

We also completed a Sustainability Plan for the Volusia County International Speedway Corridor which consisted of identification of renewable energy project opportunities at the Daytona International Airport, determination of commercial recycling, development of 'green' design standards, prioritization of strategies, and identification of public private partnership and federal grant opportunities to implement the plan.



ENVISION™ SUSTAINABLE INFRASTRUCTURE RATING SYSTEM

HDR has continued to be a pioneer in sustainability by being an early adopter of the Envision™ Sustainable Infrastructure Rating System (Envision™). Envision™ was developed to help project teams improve the performance and viability of infrastructure through the application of more sustainable technologies and methodologies. Envision™ is the product of a joint collaboration between the Zofnass Program for Sustainable Infrastructure at the Harvard University Graduate School of Design and the Institute for Sustainable Infrastructure (ISI). In fact, HDR was the first company to register and certify a project with ISI – the William Jack Hernandez Sport Fish Hatchery project – which recently obtained the first Envision Certification in the country – at the Gold Award Level. HDR has over 190 Envision Sustainability Professionals (ENV SPs) and 7 credentialed Envision Verifiers.

HDR's involvement with ISI & Envision™

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

Our airport clients have increasingly expressed interest in learning more about Envision™, and working towards registration of sustainability projects. We encourage FXE to consider using Envision to evaluate their projects moving forward under this SMP.

SUSTAINABLE BUILDING DESIGN

HDR has been at the forefront of the movement to implement an industry standard for green buildings. HDR was the first architecture firm to join the USGBC in 1994. Other HDR accomplishments:

- 603 LEED Accredited Professionals
- 40.7 Million SF of LEED Registered and Certified projects
 - 69 LEED-Certified Projects; 11.9 Million SF
 - 9 Platinum-Rated Projects
 - 27 Gold-Rated Projects
 - 28 Silver-Rated Projects
 - 19 Certified-Rated Projects
- 139 LEED Registered Projects; 25.7 Million SF
 - 112 LEED for New Construction (or BD & C)
 - 15 LEED for Commercial Interiors (or ID& C)
 - 1 LEED for Neighborhood Development Pilot Project
 - 8 LEED Healthcare
 - 2 LEED Core & Shell
 - 1 LEED Retail
- 1.12 Million SF of Building Research Establishment Environmental Assessment Method (BREEAM) projects (UK Green Building Rating System)

Below is a summary of HDR’s LEED Portfolio, which is one of the most comprehensive of any A/E firm nationally.

Summary of LEED Certified Projects and Ratings						
Rating/Product	LEED-NC	LEED-CS	LEED-EB	LEED-CI	LEED-Home	TOTAL
Platinum	4	2	0	1	2	9
Gold	26	0	0	1	0	27
Silver	22	0	2	4	0	28
Certified	17	0	2	0	0	19
TOTAL	69	2	4	6	2	83

GHG ACCOUNTING, MANAGEMENT, AND REPORTING SERVICES

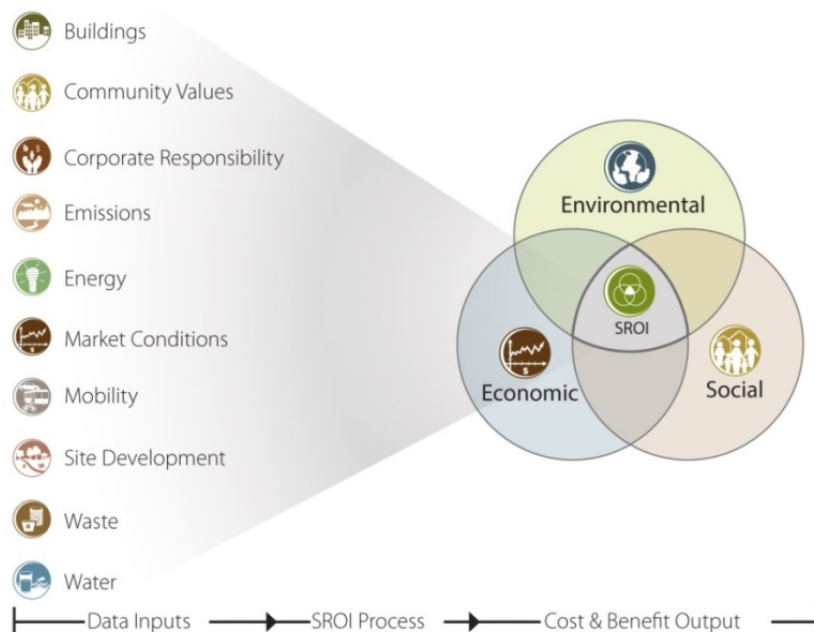


HDR has extensive experience in developing GHG inventories and GHG management plans. We help public and private sector clients prepare for regulatory compliance and take action to meet voluntary emission reduction targets. Our approach to developing a GHG inventory and GHG emissions reduction plan is based on the most reputable international accounting methodologies, databases, and accounting tools. This ensures inventories are as complete and accurate as possible and can be compared over time. HDR also helps clients report their GHG emissions in compliance with the EPA GHG Reporting Rule, Executive Order 13514, or as a voluntary initiative to the Climate Registry or the Carbon Disclosure Project.

HDR uses Mosaic, offered by Renewable Choice Energy (RCE), for development of HDR’s GHG inventory. As a Mosaic Alliance Partner, HDR has an agreement with RCE to use the software with clients for a significantly reduced user fee, and is available to FXE if there is interest in pursuing a different carbon accounting system than ICLEI’s CACP model which was used for the City of Fort Lauderdale. Mosaic is a web-based application that minimizes the chance for error, and allows for updating a carbon footprint on an annual basis in a faster, easier manner. It is also a good decision making tool to identify GHG emission reduction opportunities. Mosaic is more comprehensive than other tools, such as CACP, and covers an unlimited number of emissions sources.

ECONOMIC ANALYSIS TOOLS

SROI METHODOLOGY GUIDES YOUR DECISION MAKING PROCESS



Sustainable Return on Investment (SROI) is a methodology that identifies the initiatives that will best accomplish your project goals; optimize the total value of your project and position your project with the best possible business case for approval or funding. SROI determines the full value of a project by assigning monetary values to all of the costs and benefits--economic, social, and environmental. The process provides decision support to help communicate the full value of your project, by placing a monetary value on the

sustainable initiatives including the direct, indirect/non-cash costs and benefits and the externalities, like GHG emissions and public health and safety. These benefits are generally overlooked in a traditional

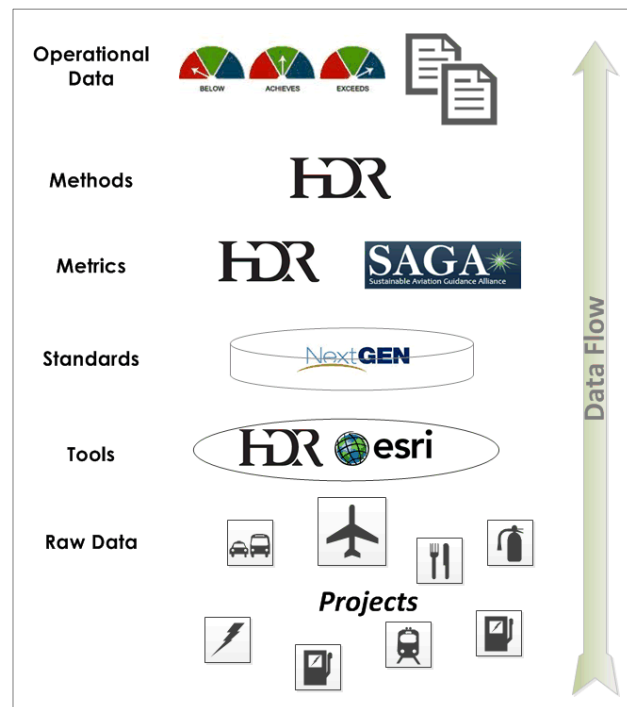


economic assessment and therefore not revealed to stakeholders. SROI provides a means for selecting and prioritizing current and future sustainability initiatives.

GEOGRAPHIC INFORMATION SYSTEMS (GIS)

Integration of the latest GIS technology allows HDR to help clients plan, complete and manage complex projects. Advanced GIS tools lead to sound business decisions and reduced project costs while maintaining quality. The GIS experts at HDR provide our clients with the spatial analysis tools to answer the difficult ‘what if’ questions. HDR was among the first consulting firms to understand the value GIS technology offers to clients. And as an Esri™ Gold Partner, we have access to the Industry’s premier geospatial technologies.

While GIS is involved with almost all HDR projects, its real value is realized when it unifies ‘silo’ed databases and provides timely, important information critical to decision-making on a specific topic. HDR is applying this service orientation to sustainability in one of its initiatives now: developing a dashboard that utilizes airports’ own data to derive and maintain sustainability efforts, repurposing relevant data to improve our clients’ performance.



STRATEGIC COMMUNICATIONS AND PUBLIC INVOLVEMENT

HDR’s approach to strategic communications is designed to lay a solid foundation for project implementation through informed stakeholder research, project identity, messaging and communications planning. Before we engage the broader public, we work to identify the key project influencers and understand their issues. Following this “no surprises” rule helps to determine where to direct project resources for the greatest benefit. Additionally, key messages can be shaped with the specific target audiences in mind. Every step of the way we work proactively to advance public opinion toward consent, project support, and acceptance. In the end, the project benefits from decisions that reflect not only the sound technical requirements of the job, but also an informed partnership with the community.

Once we identify our project audience and develop our key messages, the next step is to determine the tools and techniques to inform and involve stakeholders through a customized Public Involvement (PI) plan. We never use a cookie-cutter approach; HDR’s professional PI teams work collaboratively with our clients to plan and implement targeted activities that educate, inform and proactively engage people through every phase of the project. We focus on blending traditional PI approaches such as open houses and newsletters with newer techniques such as online engagement and social media. This ensures that

the opportunities to learn about and get involved in a project are convenient to all audiences, from those with the most at stake to those who are only casually interested.

HDR uses an **on-line public meeting** to allow stakeholders to review open house information through a video and display board process giving them the convenience to participate in the project when and how it works best for them. This tool has been proven to effectively reach the silent majority. It is used to educate the community on the project, explain the process of participation, and generate a call to action for individuals to participate. The online meeting is updated and promoted throughout the project at appropriate milestones to maintain public interest, engagement, and excitement.



FAA GUIDANCE

HDR is familiar with the FAA Sustainable Management Guidelines, the FAA Sustainable Airport Construction Practices, and other resources that guide sustainability management planning at airports. HDR is also familiar with the Transportation Research Board's holistic airport management process with the four sustainability elements of Economic Viability (E), Operational Excellence (O), Natural Resource Conservation (N) and Social Responsibility (S) (EONS) to guide and implement airport sustainability practices. HDR has used these guidelines to inform and guide project work at various airports, and we can bring that experience and expertise to FXE's Sustainability Management Plan (SMP).

QUALIFICATIONS OF THE PROJECT TEAM



HDR has assembled a carefully chosen team capable of addressing the needs of FXE as it pursues the development of a long-term SMP for FXE. We have selected team members who bring aviation experience, specialty sustainability expertise, technical skills, as well as current professional relationships with and working knowledge of FXE. An organization chart is provided on the next page.

The HDR team includes three Project Managers who will work together to deliver the project:

Our proposed Local project manager, **Melanie Fowler, PE** provides continuity for the delivery team and serves as the point of contact for FXE. She manages the internal and subconsultant partners. She is responsible for all Project Controls administered on behalf of the Project. She facilitates communication and ensures a product delivery compliant with the contract.

Our proposed Sustainability project manager, **Jeannie Renne-Malone, LEED AP, ENV SP**, is a leading industry expert in Sustainability. She is skilled in managing comprehensive teams to evaluate and provide recommendations for all aspects of sustainability planning. She has developed Sustainability Plans and Greenhouse Gas Accounting and Management plans for numerous clients.

Our proposed Aviation project manager, **John Neff, PE** has extensive project experience and has served the aviation community for decades. His wide-ranging experience provides

comprehensive solutions for aviation operational challenges. He will provide sound assessment of the proposed sustainability measures.

ORGANIZATIONAL CHART



The proposed HDR Team will be complemented by a selection of specialty subconsultants to provide a comprehensive and prepared team. The team includes professionals with experience at FXE, who will know the facility, have the relationships to build consensus, and were partners in the development of current methods.

HDR Engineering Inc. will provide overall contract administration, project controls and project management. HDR will also lead each of the discipline-specific task teams. HDR’s strong local staff will provide airport expertise, data collection, public involvement and project controls. Additionally, HDR’s nationally renowned experts will lead the development of the sustainability vision and goal setting for this project.

MGC has a solid reputation for airport planning and consulting services with aviation planners, transportation planners, data collectors, civil engineers, software developers, information solutions developers, cost consultants, computer programmers, GIS analysts, CAD technicians, graphic designers, noise analysts, land use analyst, cost estimators, and technical administrators. MGC provides the experienced airport consulting and planning services required to support an expanding aviation industry.

HMMH is a leading consultant in the evaluation of the potential for renewable energy to provide alternative revenue and cost savings through existing projects. Their review solar project opportunities and the emerging trends for solar in Florida will allow the project team to evaluate alternative energy options. HMMH is also a FXE’s trusted consultant for noise assessment and mitigation strategies. Their knowledge of the current impacts and active programs will allow the project team to efficiently address the applicability of potential sustainability initiatives.

Hanson will provide FXE will historical knowledge of the facility, as well as best management practices of similar sized facilities. Hanson also brings a team of commissioning professionals. Their knowledge of industry practice will help guide the visioning, goals, and initiatives developed in the SMP.

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



PROJECT MANAGERS' EXPERIENCE



Melanie Fowler, PE brings 18 years of engineering experience with more than a decade of project management experience. She has successfully managed a wide range of projects of all levels of complexity. She routinely provides client interface, subconsultant management, project controls, and quality assurance. She coordinates the progress reporting, invoicing, contract compliance and deliverable quality. Ms. Fowler has served as engineer of record for numerous site development projects for both public and private clients. She has served on solid waste planning projects to establish benchmarks and best practices. As a young engineer, she developed and executed air emission inventories for federal clients as part of the Title V program. Ms. Fowler's breadth of experience provides her the unique insight to assemble a comprehensive team and deliver excellence.

- 18 years experience
- 11 years PM experience
- Skilled in communication and problem solving with all levels of staff

Jeannie Renne-Malone, LEED AP, ENV SP, brings 15 years of sustainability planning experience. Ms. Malone is Director of HDR's Greenhouse Gas (GHG) Management Program, is a member of HDR's Office of Sustainability, and HDR's Sustainability Leadership Team. She has extensive experience in sustainability planning, sustainability visioning, GHG accounting and management, climate change policy and renewable energy program development and direction. Her project focus is on development of GHG inventories and sustainability baselines, GHG management plans and sustainability plans for public and private sector clients; includes advising clients on policies, projects and technologies that reduce GHG emissions and meet other sustainability goals, and identifying alternative financing to implement projects. She is actively involved in the American Solar Energy Society, Greenhouse Gas Management Institute, Association of Climate Change Officers, and U.S. Green Building Council.



Ms. Malone is Director of HDR's Greenhouse Gas (GHG) Management Program, is a member of HDR's Office of Sustainability, and HDR's Sustainability Leadership Team. She has extensive experience in sustainability planning, sustainability visioning, GHG accounting and management, climate change policy and renewable energy program development and direction. Her project focus is on development of GHG inventories and sustainability baselines, GHG management plans and sustainability plans for public and private sector clients; includes advising clients on policies, projects and technologies that reduce GHG emissions and meet other sustainability goals, and identifying alternative financing to implement projects. She is actively involved in the American Solar Energy Society, Greenhouse Gas Management Institute, Association of Climate Change Officers, and U.S. Green Building Council.

- 15 years experience
- Certificate in GHG Accounting from the GHG Management Institute
- Certificate of Training from the Global Reporting Initiative (GRI)
- Certificate in Decision Making in Climate Change



John F. Neff, PE brings 40 years of national and international project management experience. He has successfully managed over 80 aviation projects in South Florida many of which were located in Broward County. John has past experience at FXE on pavement and airfield lighting projects as well as owl and turtle studies. He has called Broward County home since 1989 when he was the Chief Engineer for Design/Build of the Broward County Resource Recovery Facilities. He has experience in the City and has

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

worked with the Federal/State/County Agencies that oversee airports. John was a key member of the team that designed Broward County’s Greenways and has over 40 miles of bike path experience. He is active in FAC, ASCE, AWWA and FPE and is a member of the Broward County Advisory Board for Individuals with Disabilities.

Below is a sample list of projects that highlight our Project Managers’ extensive experience.

	Sustainability Plan Development	Community Outreach	Climate Action Planning (CAP)	Greenhouse Gas Inventory, Strategy, Reduction	Sustainability Return On Investment (SROI)	Energy Efficiency	LEED Certification/Sustainable Building Design	Grant Application & Funding Assistance	Envision Sustainability Rating System Assessment/Certification	Aviation Planning	Airfield Pavement Design	Airfield Lighting and Signage
Sky Harbor International Airport – On-Call Sustainability Consultant	●	●		●	●	●	●	●	●			
City of Hayward – Climate Action Plan		●	●	●		●	●					
Fort Hood – Greenhouse Gas Management Plan			●	●		●	●					
City of Corpus Christi – Energy Efficiency / Conservative Strategy and Sustainability Plan	●	●		●	●	●	●	●				
Volusia County International Speedway Corridor – Sustainability Plan	●	●			●	●	●	●				
BCAD General Engineering Consultant										●	●	●
Continuing Civil Engineering, Orlando International Airport										●	●	●
Master Planning for Alaska Airports										●	●	●

UNDERSTANDING OF THE PROJECT/APPROACH TO SCOPE OF WORK

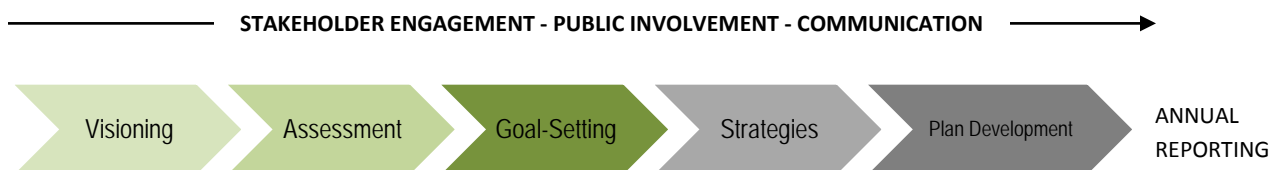
HDR recognizes the dedication and commitment of South Florida communities to sustainable practices. Through the Southeast Regional Climate Action Plan, Broward County Climate Action Plan, the City of Ft. Lauderdale Vision Plan 2035 and Sustainability Action Plan, the common theme is to provide livability today while being mindful of the needs of tomorrow. The City’s commitment was confirmed earlier this year when awarded the Gold Certification as a Florida Green Local Government from the Florida Green Building Coalition. It is no surprise that, as part of the City of Ft. Lauderdale, FXE is committed to sustainable best practices. HDR is excited for the opportunity to be a partner to help define and develop the sustainability vision and Sustainable Management Plan for FXE.

In September 2013, FXE was awarded participation in FAA’s Sustainable Master Plan Pilot Program. FXE sought funding for a Sustainable Management Plan, the stand-alone planning document focused on sustainability. The project has been funded for \$315,000 under FAA Grant Number 3-12-0024-028-2013 with a \$35,000 match from the Executive Airport Fund Balance.

FXE has an up to date and well prepared Airport Master Plan. The primary focus of this plan, however, is strategic business development for sustained financial prosperity. In addition to being a fiscally sound facility, FXE and City of Ft. Lauderdale are progressive in their approach to sustainable practices. The SMP will be a perfect complement to this document by integrating initiatives that account for sustained environmental stewardship.

There are many active and recent sustainability efforts in the region. HDR will work collaboratively with these organizations to provide the most value for the project fee. For example, the South Florida Climate Change Vulnerability & Adaptation Pilot Project is scheduled to occur simultaneously with the SMP timeframe. One category they will evaluate is the resiliency of the County’s roadway network to sea level rise and flooding. HDR has been invited to attend the Technical Advisory Committee meetings. Although their scope does not include the airport, we can find efficiencies in our evaluation by capitalizing on the developed methodology.

HDR proposes the 6-step process outlined below for the development of the SMP, drawing on the sustainability expertise of engineers, planners, architects, and specialists in areas such as GIS, water resources, public involvement, energy efficiency, economics and greenhouse accounting. Throughout the process, Stakeholder Engagement, Public Involvement and Communication will be crucial to a successful project outcome. HDR will draw on best practices and successful strategies from other airports to the extent feasible as well as build upon FXE’s own successful strategies and projects



VISIONING

TASK 1: DEVELOP SUSTAINABILITY VISION AND MISSION STATEMENT

Based on a process refined on multiple other projects, HDR will lead the effort to develop a sustainability vision and mission statement for the SMP in collaboration with FXE and key stakeholders. As part of this effort, HDR will organize an interactive visioning session to facilitate the development of a sustainability vision. The purpose of the session is to identify sustainability priorities, to coordinate with FAA program goals of “Community, Economy, Environment, Operations,” and discuss high-level sustainability goals and objectives.

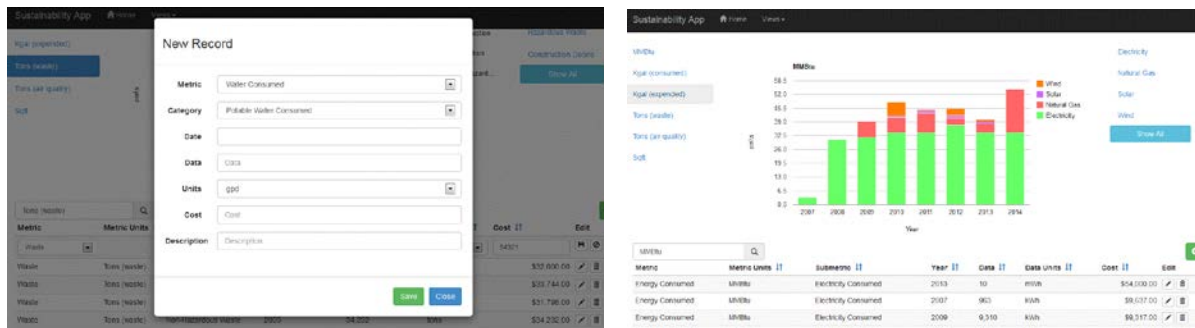


This process will build on City of Ft. Lauderdale’s existing Sustainability Action Plan. The result will be a Sustainability Mission Statement to distribute, post online, and display prominently in the airport. The Mission Statement will guide the overall vision in the development of the Sustainability Management Plan.

ASSESSMENT

TASK 2: DETERMINE SUSTAINABILITY CATEGORIES AND DEVELOP BASELINE ASSESSMENT

HDR will lead a process to define sustainability categories and a comprehensive baseline assessment, including a Greenhouse Gas (GHG) inventory and an optional GIS-based data management tool to monitor and report progress. HDR can create a customized web-based application with a dashboard from which to enter and view progress towards sustainability goals, and is accessible on smartphones and tablets.



The sustainability categories will determine the focus areas of the sustainability master planning process. They are used to determine the information to be included in the baseline assessment, to establish performance goals associated with each category, and to identify strategies to meet

performance goals. HDR will coordinate with FXE and the framers of the existing sustainability guidance to assess local, regional and specific airport priorities; local environmental conditions, and stakeholder input to finalize the list of sustainability categories.

At a minimum, sustainability categories may include:

- Asset Management
 - Greater utilization of assets;
 - Reduced life cycle costs;
 - Reduced operating costs;
- Planned development
 - Green Building facility management;
 - Construction methods
 - Airport connectivity
- Energy consumption and reduction
 - Reduced energy consumption;
 - Reduce kilowatt-hours (kWh) and Greenhouse gas (GHG) emissions
- Natural resource management
 - Improved water quality/conservation
 - Improved Air quality
 - Noise Abatement
- Waste Management
 - Reduced/Minimized waste
 - Increased recycling;
 - Reduced emissions/pollution;
- Human Element
 - Healthier work environment for employees;
 - Positive community relationships;
 - Resiliency and preparedness

Once the sustainability categories have been defined, HDR will coordinate with the City of Ft. Lauderdale to determine the baseline year, and the boundaries of the baseline assessment. HDR will then develop a comprehensive baseline assessment, building on previous efforts undertaken at the airport (such as the recently completed EIS, sea level rise analysis and other climate-related studies) and within the community, and taking into consideration all airport functions and departments. As part of the data gathering, HDR will coordinate with members of the FXE Staff to integrate the applicable sustainable solutions, and to gather information and coordinate as appropriate.

The baseline assessment will include quantitative data as well as an assessment of practices and procedures throughout the airport related to air quality, noise, waste management, energy management, materials management, building and facilities design and management, and

socioeconomics. Given that this is a multi-disciplinary effort, HDR will utilize technical resources from the HDR Team for development of the baseline assessment.

Development of the GHG Inventory

GHG Inventories have been previously developed for Broward County. Within those inventories, an airport classification was assessed. HDR will utilize the information provided in the Broward County Community-wide GHG Emissions Inventory. Using the established methodology and the Federal Aviation Administration's (FAA) Emissions and Dispersion Modeling System (EDMS), HDR will update the aircraft classes, usages and operation class counts. As noted in the report, some categories required surrogates to determine the emissions from some smaller airplanes. HDR will review the application of these surrogates and determine if another application may be more appropriate. Once all the emissions source data has been collected and assessed for completeness and accuracy, HDR will upload the data into the tool or software as determined by FXE. As noted earlier, FXE may decide to use ICLEI's CACP model used previously by the City of Fort Lauderdale. HDR uses a carbon accounting software, Mosaic, offered by Renewable Choice Energy (RCE) to develop HDR's annual GHG inventory. HDR has an agreement with RCE to use the software with clients for a significantly reduced user fee. HDR will provide a demonstration and overview of Mosaic to assist FXE in making the decision.

Additionally, the GHG data collection efforts to date have been community-wide. Because this SMP is focused solely on FXE, there may be opportunities to refine the emissions inventory. For example, this effort can also include an Employee Commute Survey. The resulting GHG emissions data can be entered into the GIS-based dashboard described below. The development of a GIS-based dashboard would allow FXE to track all quantitative data from the baseline assessment.

Development of a Customized GIS Dashboard Toolkit

Given that airports are encouraged to develop and submit their improvement data to the FAA, HDR can develop a customized GIS dashboard tool to track and monitor all the data compiled in the baseline assessment. The dashboard also incorporates all information from the baseline assessment, performance goals and strategies, and tracks progress towards meeting performance goals once strategies have been implemented. Customized to task, the dashboard is configured or calibrated to meet the specifications of the sustainability strategy and measured against its baseline. The dashboard will not only include the GHG emissions data generated through Mosaic, but all of the data gathered through the course of the baseline assessment. The dashboard will be a critical tool in communicating the SMP to the City of Ft. Lauderdale, the FAA, key community stakeholders and the general public.



GOAL-SETTING

TASK 3: SET SUSTAINABILITY GOALS AND PERFORMANCE TARGETS

HDR will facilitate an interactive meeting to discuss and determine sustainability goals and performance targets related to all of the identified sustainability categories. Prior to the meeting, HDR will develop background information on the goals set by other airports in the U.S. and around the world to help formulate a basis for setting goals. This information will come from such sources as the ACI-NA Environmental Committee and airport sustainability and environmental master plans. The meeting will also solicit input on the possibility of voluntary reporting of GHG emissions inventory through organizations such as The Climate Registry or Carbon Disclosure Project.

HDR will coordinate the identification and selection of metrics and indicators to measure progress over time. Examples include:

- Reduce energy consumption by 10% by 2015
- Reduce GHG emissions 15% by 2020 from baseline
- Increase the diversion of compostable and organic material from the waste stream by 50%

These goals will be developed in collaboration with the many on-going sustainability efforts of the region. For example, the seven50 Prosperity Plan was recently released. The priorities listed in the “Climate and Energy Resilience” category provide a starting point to develop a tailored set of goals for FXE.

STRATEGIES

TASK 4: IDENTIFY AND PRIORITIZE SUSTAINABILITY STRATEGIES USING SUSTAINABLE RETURN ON INVESTMENT (SROI)

Based on project experience and expertise across all sectors in the built environment, HDR will identify sustainability strategies for FXE’s goals. These strategies may include review of contracts, policies and procedures and will focus on: reductions in energy, water, and waste; transportation; increased use of renewable energy; LEED project certification; and other strategies. As part of this task, HDR will provide a presentation and recommendations for considering certifying a select project(s) using the Envision™ Sustainable Infrastructure Rating System. Our airport clients have increasingly expressed interest in learning more about Envision, and working towards registration and certification of sustainable infrastructure projects.

HDR will prioritize up to 10 strategies using HDR’s Sustainable Return on Investment (SROI) analysis. SROI determines the full value of a project by assigning monetary values to key economic, social and environmental costs and benefits. The analyses include data from both the best available research metrics and local perspectives on the impact and value of social and environmental improvements (e.g., greenhouse gas emissions, air pollution, public health and safety). The modeling approach accounts for uncertainties in impacts and values to ensure that a complete perspective on the total value is revealed. Results are tailored to each client to help them communicate the value of the project. In most cases, the financial and monetary value of sustainability improvements are presented side-by-side. With this information, our clients have directly seen the value of incurring greater capital or operations / maintenance costs to achieve better outcomes for the public and the environment.

PLAN DEVELOPMENT

TASK 5: DEVELOP SUSTAINABILITY MANAGEMENT PLAN



Based on previous projects, HDR will develop an implementation, monitoring and reporting plan that will outline the means to implement strategies, including high-level cost estimates, a list of potential funding mechanisms (e.g., third-party investors in renewable energy projects), identification of partners (e.g., airline clubs that may invest in LEED for Commercial Interiors), and a plan for monitoring progress using the GIS-based dashboard.

HDR will compile information from all tasks into a draft and final SMP that will be made available to the public. It will include the Sustainability Vision, the results of the baseline assessment, goals and performance metrics, the list of sustainability strategies, and the results of the prioritization analysis using SROI. It will also describe the implementation, monitoring and reporting plan utilizing the GIS dashboard tool to track and report progress towards meeting performance goals. The SMP will provide not only a planning process to reduce FXE's environmental footprint, but also a framework to incorporate sustainability into all operations and projects and to track sustainability progress over time.

To ensure the continued success of the sustainability strategies, HDR will assist FXE in developing Sustainable Design Criteria Manual. This manual will incorporate the principals and initiatives developed throughout the visioning process. The criteria will establish best practices for low impact development. These criteria may include Stormwater runoff treatment trains, rain barrels, or other means for the reduced impact of capital development. By establishing design criteria, FXE will have the ability to communicate, control and monitor the planned developments of their tenants.

TASK 6: ANNUAL REPORTING

Annual reporting helps the FAA track progress from airports across the country involved in the Airport Sustainable Master Plan Pilot Program. An Annual Sustainability Report would include an overview of the FXE’s sustainability efforts, and would summarize actions and activities carried out in the previous year, and highlight annual progress made towards meeting goals set forth in the SMP. The GIS dashboard will provide the framework of this



reporting effort and allow FXE to monitor progress towards meeting performance targets across all sustainability categories.

HDR will coordinate these efforts with the City of Ft. Lauderdale’s Vision Scorecard (ClearPoint system) and will support the sustainability scorecard metrics. HDR recommends that FXE compliment this information with an Annual Sustainability Report using the Global Reporting Initiative (GRI) Framework. This format describes progress made in implementing the SMP. HDR will also monitor the activities of the FL²STAT meetings. These meetings may provide trend information for city-wide initiatives and provide insight into key indicators.

ONGOING THROUGHOUT THE PROJECT: PUBLIC INVOLVEMENT AND COMMUNICATIONS

Throughout the process, Stakeholder Engagement, Public Involvement and Communication will be crucial to a successful project outcome. The HDR Team will employ a wide variety of comprehensive communication strategies throughout the process to solicit input from key stakeholders, as well as to inform and educate the public. HDR’s approach to strategic communications is designed to lay a solid foundation for project implementation through informed stakeholder research, project identity, messaging and communications planning. Before we engage the broader public, we work to identify the key project influencers and understand their issues. Following this “no surprises” rule helps to determine where to direct project resources for the greatest benefit. Additionally, key messages can be shaped with the specific target audiences in mind. Every step of the way we work proactively to advance public opinion toward consent, project support, and acceptance. In the end, the project benefits from decisions that reflect not only the sound technical requirements of the job, but also an informed partnership with the community.



Reference: National Civic League

Once we identify our project audience and develop our key messages, the next step is to determine the tools and techniques to inform and involve stakeholders through a customized Public Involvement (PI) plan. We never use a cookie-cutter approach; HDR’s professional PI teams work collaboratively with our

clients to plan and implement targeted activities that educate, inform and proactively engage people through every phase of the project. HDR recognizes the City's commitment to inclusion and diversity and congratulates the City on their recent National Civic League's All-America City Diversity and Inclusiveness Award. HDR will integrate the tenants of innovation, inclusiveness, civic engagement, and cross sector collaboration. We focus on blending traditional approaches such as open houses and newsletters with newer techniques such as online engagement and social media. This ensures that the opportunities to learn about and get involved in a project are convenient to all audiences, from those with the most at stake to those who are only casually interested.

FINAL PRODUCT: THE FXE SUSTAINABILITY MANAGEMENT PLAN

HDR is familiar with the U.S. Federal Aviation Administration (FAA) Sustainable Management Guidelines, the FAA Sustainable Airport Construction Practices, and other resources that guide sustainability master planning at airports. The SMP will not only provide a planning process to reduce FXE's environmental footprint, but also develop a framework to incorporate sustainability into all operations. It will also track sustainability progress over time. This process will support the FXE's dedication to minimize its impacts on the environment while increasing its operational efficiency, economic viability, and social responsibility.

PROJECT CONTROLS

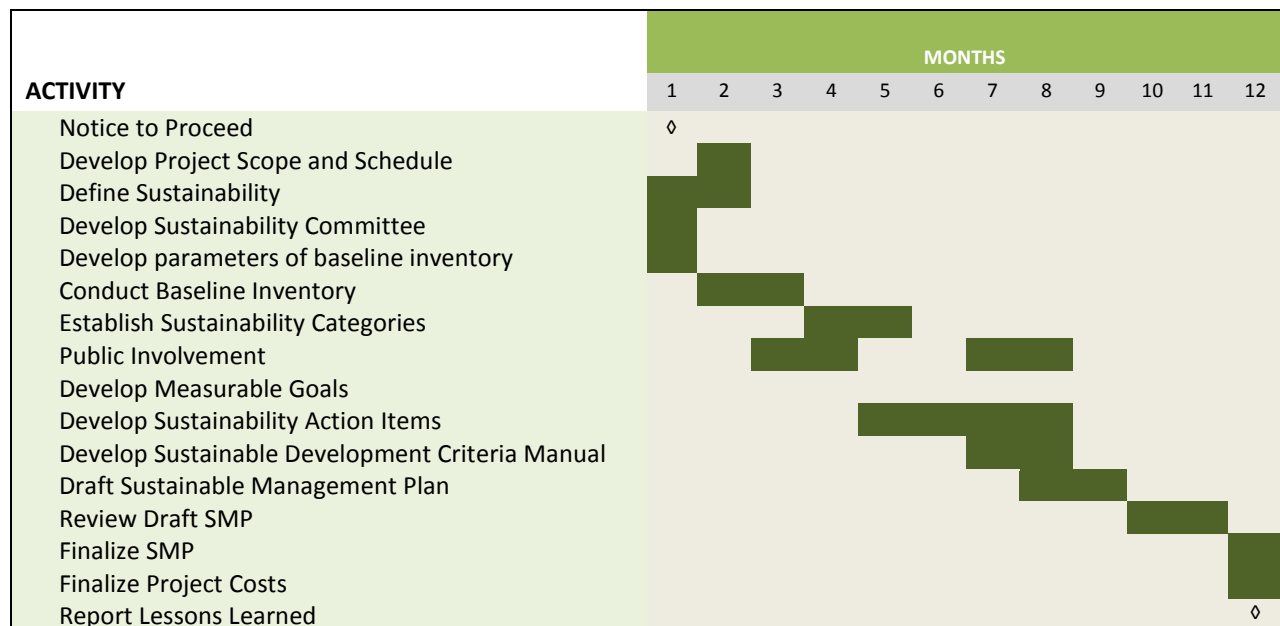
HDR understands the need to develop and closely monitor the project schedule. This project is particularly time-sensitive in that the FAA guidance stipulates two constraints:

- Recommendation that program participants complete the SMP in a 12 month time frame; and,
- Requirement that program participants complete the SMP within 24 months from grant award.

Grant approval was awarded September 2013. With a required project completion of September 2015, the project will need to commence by September 2014. The project is currently slated to receive Board approval July 2014. This tight timeframe will require the collective efforts of FXE, City of Ft. Lauderdale Procurement Services Division and the successful bidder. HDR is committed to working diligently with all department/divisions to manage the project schedule to achieve the required milestones.

HDR’s Project Managers are continuously trained to monitor the project vs. the approved scope, budget, and project schedule and to actively guard against slippage. A Work Breakdown Structure (WBS) is developed to manage budget and schedule, identifying individual tasks, each of which is tracked by the Project Manager working directly with the task manager to insure timely and on-time budget completion of individual project parts. Task leaders monitor the progress of Team members on a regular basis including daily updates on hours charged and weekly updates on overall project cost. Completion is tracked and compared to the baseline schedule; and corrective actions are taken to manage the schedule requirements, when the need arises.

Microsoft Project or Primavera software is used to establish the master project schedule in accordance with the WBS so that cost, schedule, and responsibility can be integrated into each work element for budgeting and monitoring purposes. Below is a proposed project schedule which we will develop in more detail when we meet with FXE personnel and stakeholders to identify and prioritize activities.



CURRENT WORKLOAD

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

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

Under the direction of the Project Manager, we typically assign Task Leaders to manage discipline-specific work efforts. These Task Leaders are assigned based on their ability to manage the technical aspects and become the HDR primary manager for the project. The Task Leaders have the support of the Project Manager and are assigned resources necessary to efficiently and responsibly advance the project. In the event we need additional technical support from within HDR engineering, we have a large network of available resources that are able to contribute immediately. ***Being a large firm allows us to allocate the necessary resources to complete concurrent project(s) in a timely manner while maintaining of high level of quality and customer service that our clients expect.***

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

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

REFERENCES

VOULSIA COUNTY INTERNATIONAL SPEEDWAY CORRIDOR

Sustainability Plan
Ms. Michelle Leigh
Volusia County OSEM Manager
386.736.5927
mleigh@co.volusia.fl.us
123 West Indiana Ave
Room 202
DeLand, Florida 32720

CITY OF CORPUS CHRISTI

Greenhouse Gas Inventory / Sustainability Plan
Oscar Martinez
Assistant City Manager
1201 Leopard St.
Corpus Christi, TX 78401
Phone: 361.826.3189
OscarM@cctexas.com

FORT HOOD

Greenhouse Gas Management Plan
Mr. Robert Kennedy
Air Quality Program Manager
Directorate of Public Works
4612 Engineer Drive
Fort Hood, TX 76544-5028
Phone: 254.287.8714
E-mail: robert.l.kennedy112.civ@mail.mi



SKY HARBOR

cynthia.parker@phoenix.gov
Cynthia Parker
Environmental Coordinator
City of Phoenix Aviation Department
602-273-2730

DISADVANTAGED BUSINESS ENTERPRISES (DBE) PARTICIPATION

HDR is committed to achieving the DBE procurement goals established for this project. HDR has engaged a capable partner, Montgomery Consulting Group. MCG is registered as a Disadvantaged Business Enterprise (DBE) through Florida Department of Transportation (FDOT) under Florida's Unified Certification Program (UCP) in accordance with 49 Code of Federal Regulation Part 26. We have the upmost respect and confidence in their ability to deliver their task.

SAMPLE INSURANCE CERTIFICATE

		CERTIFICATE OF LIABILITY INSURANCE			DATE (MM/DD/YYYY) 6/1/2014 5/24/2013		
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(les) 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, LLC-1 Kansas City 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: INSURER(S) AFFORDING COVERAGE NAIC #			
INSURED 1013472 HDR ENGINEERING, INC. 8404 INDIAN HILLS DRIVE OMAHA, NE 68114-4049				INSURER A : Hartford Fire Insurance Company 19682 INSURER B : St. Paul Fire and Marine Insurance Company 24767 INSURER C : Sentinel Insurance Company, Ltd. 11000 INSURER D : Zurich American Insurance Company 16535 INSURER E : INSURER F :			
COVERAGES HDRIN01		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 INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> Contractual Liab. GEN'L AGGREGATE LIMIT APPLIES PER: POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC	N	N	37CSEQU0950	6/1/2013	6/1/2014	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMPI/OP AGG \$ 2,000,000
A A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	N	N	37CSEQU0951 (AOS) 37CSEQU0952 (HI) 37MCPQU1160 (MA)	6/1/2013 6/1/2013 6/1/2013	6/1/2014 6/1/2014 6/1/2014	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX
B	<input checked="" type="checkbox"/> UMBRELLA LIAB EXCESS LIAB <input checked="" type="checkbox"/> OCCUR CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 0	N	N	ZUP-10R64084-13-NF (EXCLUDES PROF. LIAB)	6/1/2013	6/1/2014	EACH OCCURRENCE \$ 1,000,000 AGGREGATE \$ 1,000,000 \$ XXXXXXXX
C C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	N/A	N	91WEOH1000 (AOS) 91WBOH1760 (HI)	7/1/2013 7/1/2013	7/1/2014 7/1/2014	<input checked="" type="checkbox"/> WC STATU-TORY LIMITS OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
D	ARCHS & ENGS PROFESSIONAL LIABILITY	N	N	EOC9260026-06	6/1/2013	6/1/2014	PER CLAIM: \$1,000,000. AGG: \$1,000,000.
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, 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 			
ACORD 25 (2010/05) The ACORD name and logo are registered marks of ACORD ©1988-2010 ACORD CORPORATION. All rights reserved							



JOINT VENTURES

Not Applicable to this response



SUBCONSULTANTS

Subconsultant partners have been identified in the “Qualifications of the Project Team”.



NON-COLLUSION STATEMENT

Attached

ARCHITECT – ENGINEER QUALIFICATIONS

PART I – CONTRACT SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

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

HDR Engineering, Inc. *(Ft. Lauderdale, Florida)*

2. PUBLIC NOTICE DATE

02/20/14

3. SOLICITATION OR PROJECT NUMBER

946-11300

B. ARCHITECT – ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Charles T. Sinclair, PE

5. NAME OF FIRM

HDR Engineering, Inc.

6. TELEPHONE NUMBER

(954) 647-4542

7. FAX NUMBER

N/A

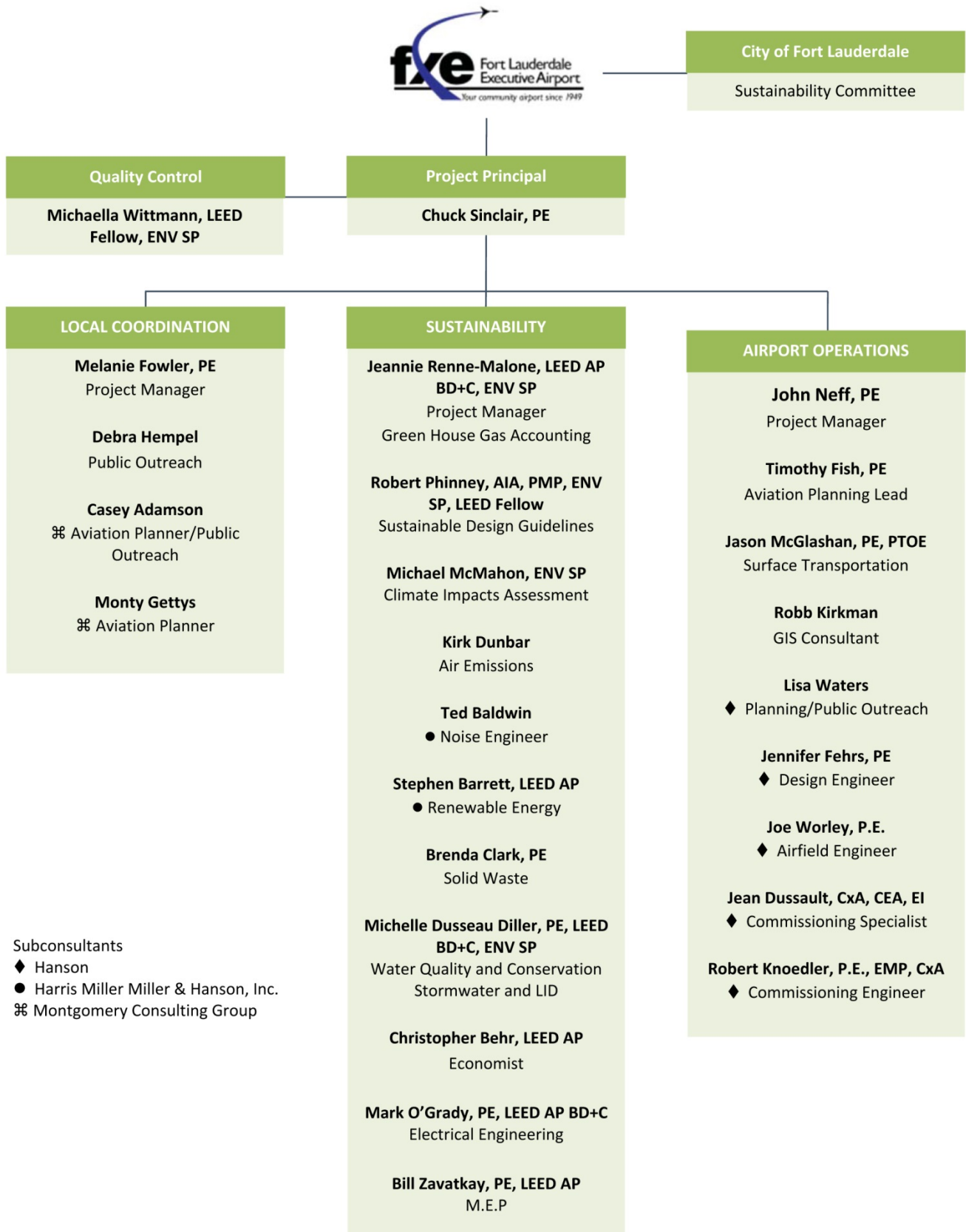
8. E-MAIL ADDRESS

chuck.sinclair@hdrinc.com

C. PROPOSED TEAM

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

	(Check)			9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
	PRIME	J-V PARTNER	SUBCON-TRACTOR			
a.	<input checked="" type="checkbox"/>			HDR Engineering, Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	3250 West Commercial Blvd, Suite 100 Ft. Lauderdale, FL 33309	Prime Consultant
b.			<input checked="" type="checkbox"/>	Harris Miller Miller & Hanson Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	77 South Bedford Street Burlington, MA 01803	
c.			<input checked="" type="checkbox"/>	Montgomery Consulting Group, Inc. <input type="checkbox"/> CHECK IF BRANCH OFFICE	501 S. New York Avenue, Suite 210 Winter Park, FL 32789	
d.			<input checked="" type="checkbox"/>	Hanson Professional Services Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	9015 Town Center Parkway, Suite 105 Lakewood Ranch, FL 34202	
e.			<input checked="" type="checkbox"/>	Hanson Professional Services Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	1601 Belvedere Road, Suite 303 South West Palm Beach, FL 33406	
f.			<input checked="" type="checkbox"/>	Hanson Professional Services Inc. <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE	720 N. Maitland Ave., Suite 102 Maitland (Orlando), FL 32751	



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Chuck Sinclair, PE	Project Principal	A. TOTAL	B. WITH CURRENT FIRM
		22	22
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
HDR Engineering, Inc. <i>(Miami Lakes, FL)</i>			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
BS, Civil Engineering		Professional Engineer, Florida, Civil	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			
<p>Chuck is a Senior Vice President with HDR and serves as the Managing Principal for the firm's South Florida practice. He is responsible for management, profitability and direction of the South Florida offices including implementation and monitoring of operating plans and budgets, development and implementation of the strategic plans, managing the staff, establishing and monitoring procedures and processes, adherence to corporate and company policies, project contractual terms and quality control procedures. Chuck also frequently serves as a Project Principal or Project Director for large or significant projects in Southern Florida and is responsible for assuring that HDR is offering the appropriate technical resources to provide delivery of quality service and products to our clients on time and within budget.</p>			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Broward County Aviation Department - General Engineering Consulting Services, Broward County, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Project Manager. Mr. Sinclair is serving as the program manager for an open-ended engineering consulting services contract for the Broward County Aviation Department in Broward County, Florida. HDR is leading a team of specialty subconsultants in support of BCAD's current development programs via a five-year, \$9.3 million task order contract. The range of projects performed by the HDR Team includes environmental engineering services; airside infrastructure studies and improvements; safety, security and communication projects; tenant improvements; airport facility refurbishments and improvements; terminal development improvements; landside infrastructure studies; airport development; and airport capital project support. As program manager, Mr. Sinclair is responsible for all administrative, financial, and staffing needs of the projects, as well as planning and scheduling future projects as needed by the Department. In addition, Mr. Sinclair is acting as the project manager for several assignments in the program.</p>		
b.	Capital Region Airport Commission, ARFF Concrete Vault Remediation, Richmond, VA	1993	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Oversight. Provided technical oversight and subcontractor coordination for remediation of a concrete vault used for treatment of floor drain discharge at the Airport Rescue and Firefighting Facility at the Richmond International Airport, Richmond, Virginia. The project included removal of contaminated liquid, and preparing an assessment report of the findings with a recommendation of how to return the unit to service.</p>		
c.	Charlotte/Douglas International Airport, Stormwater Projects, Charlotte, NC	1996	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Engineer. Mr. Sinclair evaluated alternative locations for a 40-acre in-stream stormwater detention pond at the Charlotte-Douglas International Airport. Activities included on-site study and computation of area and volume of proposed pond sites and the environmental impacts of each site. Mr. Sinclair assisted with final design of the 130 acre-foot in-stream stormwater detention pond at the Charlotte Douglas International Airport. The HEC-1 model was used to size the facility to comply with local city stormwater ordinances and provide optimum credit towards the airports stormwater fee.</p>		
d.	Charlotte-Douglas International Airport, Design of Stormwater Detention Pond, Charlotte, NC	1996	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	<p>Engineer. Evaluated alternative locations for a 40-acre in-stream stormwater detention pond at the Charlotte-Douglas International Airport. Activities included on-site study and computation of area and volume of proposed pond sites and the environmental impacts of each site. Mr. Sinclair assisted with final design of the 130 acre-foot in-stream stormwater detention pond at the Charlotte Douglas International Airport. The HEC-1 model was used to size the facility to comply with local city stormwater ordinances and provide optimum credit towards the airport's stormwater fee.</p>		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
John Neff, PE		Project Manager - Airport Operations		A. TOTAL	B. WITH CURRENT FIRM
				23	3
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
HDR Engineering, Inc. <i>(Miami Lakes, FL)</i>					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
Bachelor of Science, Civil/Structural Florida Atlantic University, 2008			Professional Engineer, Florida, Civil		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
Over 38 years of hands on experience in civil and mechanical engineering, 18 years of which focused on a wide range of airside and landside airport projects including parking, terminals, airfield surfaces, NAVAIDs, drainage, markings, signage and electrical modifications. Management of the General Engineering Services agreement for BCAD that covered a wide range of diverse airport projects.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Rehabilitation of the North Runway and EMAS at Fort Lauderdale-Hollywood International Airport, Ft. Lauderdale, FL			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2004	2004
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager. Served in a number of roles from design, planning, construction administration, and final analysis of the completed project for certification and Final Acceptance. The project was completed with minimal Change Orders and was within the original budget. Created a significant inventory of lessons learned by dissecting all phases of design and construction to evaluate where procedures or directives impacted quality. Oversaw installation of one of the original EMAS systems used at a commercial airport. Helped to minimize impacts to the air carriers throughout the duration of the construction effort in the midst of an operational movement area. Was the key staff position that provided continuity from planning through Final Acceptance.					
b.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Terminal 4 Apron Design at Fort Lauderdale-Hollywood International Airport, Ft. Lauderdale, FL			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2014	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager. Transitioned into the Project Manager role for designing new airside surfaces supporting the new terminal work for FLL. The project sits between two extensive ongoing reconstruction projects (Terminal 4 and the new South Runway) requiring close coordination and flexibility. The project involves precise planning and phasing to allow reconstruction while maintaining operational gates for air carriers. Many years of airport experience at BCAD facilitated understanding the scope and immediately assuming a leadership role with no impact to the schedule.					
c.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Airfield Electrical Improvements, Ft. Lauderdale International Airport, Ft. Lauderdale International Airport, Ft. Lauderdale, FL			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2007	2007
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Engineer. Fort Lauderdale-Hollywood International Airport - Resident Project Engineer for replacement of aged airfield lighting circuitry. Work valued over \$1,000,000 and included recircuitry for 2 of the 3 runways at the airport and 6 taxiways, contractor installed new circuits, conduit and light fixtures. Responsible for coordination with BCAD operations regarding closing airside areas.					
d.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Taxilane Tango and Apron Rehabilitation, Ft. Lauderdale International Airport, Ft. Lauderdale, FL			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2007	2007
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Engineer. Fort Lauderdale-Hollywood International Airport - 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.					
e.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Task 1 West Side Redevelopment, Fort Lauderdale-Hollywood International Airport, Ft. Lauderdale, FL			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2007	2007
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Engineer. Developed final civil plans and obtained permits for the west side redevelopment of the airport including roads, drainage, water, sewer, FAA, power and communication duct banks. Assumed leadership role and redesigned the U/G utilities to more effectively align with the new roadway. Provided post design services throughout construction. The project included FAA work beneath the western EMAS on 9L.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Melanie Fowler, PE	Project Manager - Local Coordination	A. TOTAL	B. WITH CURRENT FIRM
		18	6
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
HDR Engineering, Inc. <i>(Ft. Lauderdale, FL)</i>			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
Bachelor of Engineering, Environmental Engineering, University of Central Florida, 1995		Professional Engineer, Florida, Civil	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			
Melanie has over 15 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 has completed numerous water resources, solid waste and site development projects for a variety of private, local, and state clients in Florida. Melanie is a registered professional engineer in Florida and she is an involved member of the professional association community.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Broward County Aviation Department, General Engineering Consultant, Ft. Lauderdale, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Engineer. 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. Melanie also serves as the Project Control specialist. She is responsible for all administrative and financial needs of the projects.		
b.	Ft. Lauderdale - Hollywood International Airport, Terminal 4 Apron Civil Works, Ft. Lauderdale, FL	2013	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Engineer. BCAD is implementing an Airport Expansion Program (AEP) which includes the Expansion of Runway 9R/27L, Terminal 4 Gate Replacement, and Enabling Projects. The T-4 Apron Civil Works project will modify the existing airport terminal civil works and underground utility infrastructure, including apron and airside infrastructure and impacted landside utilities, and relocate security fencing and a guardhouse needed to enable the Terminal 4 Gate Replacement Project. The project will also replace the Terminal 4 Apron and expand the apron to the east. All proposed work will be completed while maintaining operations to the existing Terminal and Concourse. HDR provided preliminary engineering and final design services and is developing construction bid documents for the project. In addition, HDR is providing planning and design services for environmental restoration of contaminated sites in Project construction footprint. Services include existing infrastructure evaluations, design, construction cost estimating, construction phasing and sequencing, permitting services, and design coordination. In addition, HDR is overseeing multiple subconsultants who are performing specialized services such as Environmental restoration, Pavement analysis and design, and Stormwater and Drainage Design.		
c.	Engineering Services for Solid Waste Northwest Transfer Station, Orlando, FL	2010	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Task Manager. Ms. Fowler serves as a Task Manager for site selection of a new solid waste transfer station in Orange County, Florida. She has assisted with the development of selection criteria including federal, state and local regulations. Additionally, criteria were developed for other elements including proximity to residential and school uses. Ms. Fowler is also helping to develop a public participation program to involve the stakeholders.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Jeannie Renne-Malone, LEED AP BD+C, ENV SP	Project Manager -Sustainability	A. TOTAL	B. WITH CURRENT FIRM
		15	6

15. FIRM NAME AND LOCATION *(City and State)*
 HDR Engineering, Inc. *(Denver, CO)*

16. EDUCATION <i>(Degree and Specialization)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
Master of Arts, International Development & Finance Bachelor of Arts, Spanish Language & Literature	LEED Accredited Professional, Building Design + Construction Envision Sustainability Professional (ENV SP)

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Ms. Malone is Director of HDR’s Greenhouse Gas (GHG) Management Program, is a member of HDR’s Office of Sustainability, and HDR’s Sustainability Leadership Team. Extensive experience in sustainability planning, sustainability visioning, GHG accounting and management, climate change policy and renewable energy program development and direction. Project focus on development of GHG inventories and sustainability baselines, GHG management plans and sustainability plans for public and private sector clients; includes advising clients on policies, projects and technologies that reduce GHG emissions and meet other sustainability goals, and identifying alternative financing to implement projects. Organizations: American Solar Energy Society, Greenhouse Gas Management Institute, Association of Climate Change Officers, U.S. Green Building Council. Training includes: Certificate in GHG Accounting from the GHG Management Institute; Certificate in Decision Making in Climate Change, University of Washington; Certificate of Training from the Global Reporting Initiative (GRI); HDR Training:Quality Assurance/Quality Control, NEPA Leadership, Emergency Action Plan, Project Management Planning & Monitoring. HDR Pathfinder Awards: Corpus Christi Energy Efficiency and Conservation Block Grant Program. Fluent in Spanish.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	US Department of Transportation (DOT) FY 2012 & FY2013 GHG Inventories	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	HDR Project Manager and GHG Technical Lead. In partnership with Helios Resources Ltd, provided technical support to the USDOT and the ten Operating Administrations to develop comprehensive GHG Inventories for FY2012 and FY2013 in compliance with EO 13514.		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
b.	City of Corpus Christi, Texas Community Sustainability Planning, GHG Inventory and Climate Adaptation Strategy, Corpus Christi, TX	2012	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	GHG Baseline and Climate Adaptation Lead. Member of HDR team that worked with the City to identify and prioritize energy efficiency and conservation strategies, develop a GHG baseline, conceptualize an approach to climate adaptation, and develop a sustainability vision and long-term sustainability plan as part of the EECBG program.		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
c.	Sustainable Installation Strategy, Marine Corp Air Station (MCAS) Iwakuni, Japan	2010	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	GHG Technical Lead. Member of HDR Team that worked with the MCAS Iwakuni Command to craft the development of a Sustainable Installation Strategy. The plan included a sustainability baseline assessment of buildings, transportation, energy, GHG emissions, water, solid waste, health and quality of life and assessed progress towards meeting US Federal Energy Mandates and EO 13514.		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
d.	International Speedway Boulevard Green Development Plan & Assessment of Renewable Energy Opportunities at Daytona International Airport, FL	2011	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Sustainability Technical Lead. Provided professional consulting services for the International Speedway Green Development Plan for Volusia County, Florida. The plan consisted of identification of renewable energy project opportunities at the Daytona International Airport, determination of commercial recycling, development of ‘green’ design standards, prioritization of strategies, and identification of public private partnership and federal grant opportunities to implement the plan.		
	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
e.	Sky Harbor International Airport Sustainability Plan, AR	2015	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Sustainability Planning and GHG Inventory Technical Lead. HDR Team Member to develop GHG Baseline and Sustainability Plan for Sky Harbor Airport, including sustainability visioning and goal-setting, development of sustainability baseline, identification of strategies and performance measures and development of implementation and monitoring plan. Start date June 2014.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Michaella Wittmann, LEED Fellow, ENV SP	Quality Control	A. TOTAL	B. WITH CURRENT FIRM
		21	20

15. FIRM NAME AND LOCATION *(City and State)*

HDR Engineering, Inc. *(Omaha, NE)*

16. EDUCATION *(Degree and Specialization)*

Bachelor Science/Bach of Art, Electrical Engineering, University of San Diego, 1992

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

ISI Envision Sustainability Professional, United States National Registration
LEED AP Building Design + Construction, United States National Registration
LEED Fellow, United States National Registration

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

As the founder and director of HDR's Sustainability program, Ms. Wittmann has been a leader in the sustainability and green building industry for more than seventeen years. A strong proponent of matching sustainable strategies to the goals and characteristics of each project, she has worked closely with a multitude of clients to balance environmental, economic, and social equity goals. Her aptitude for leadership, innovation, and integration have led clients in all industry sectors to the successful completion of projects that have benefits such as reduced environmental impact, increased productivity, improved quality, stakeholder support and reduced operations and maintenance expenditures.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	City of McKinney Sustainable Community Visioning & EECBG Program Management, McKinney, TX	2007	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Sustainable Design Consultant. A preliminary study culminating in a community-wide visioning session that identified city-wide goals and objectives related to making the City a more sustainable community. HDR was retained by the City of McKinney to be an advisor for the EECBG program and to assist in the development of the City's EECBG Application.		
b.	Marine Corps Air Station Sustainability Strategy, Iwakuni, Japan	2009	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Sustainable Design Consultant. The team worked with the MCAS Iwakuni Command to craft the development of a Sustainable Installation Strategy. The plan includes an assessment of buildings, transportation, energy, GHG emissions, water, solid waste, health and quality of life and assesses progress towards meeting US Federal Energy Mandates and EO 13514.		
c.	Air Force Center for Engineering & the Environment, Multiple Locations	2009	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Sustainable Rating System Development & Training. Workshops designed to train Air Force personnel on the requirements of the Air Force Sustainable Design and Development Policy Memorandum, and all other Federal, Department of Defense, and Air Force policies and mandates pertinent to Sustainable Development. The workshops also provided a detailed review of the USGBC's LEED-NC Rating System, sustainable internet tools and resources, and activities and sample exams that helped workshop attendees prepare for the LEED AP examination.		
d.	City of Corpus Christi, Texas Community Sustainability Planning, GHG Inventory, & Climate Adaption Strategy, Corpus Christi, TX	2010	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Strategic Advisor. The team worked with the City to identify and prioritize energy efficiency and conservation strategies, develop a GHG baseline, conceptualize an approach to climate adaptation, and develop a sustainability vision and long-term sustainability plan as part of the EECBG program		
D.	Oregon Department of Transportation, Oregon Bridge Delivery Program, OR	2010	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Sustainable Design Consulting. A \$1.3 billion program for the replacement or repair of approximately 365 bridges on Oregon state highways using a Context Sensitive and Sustainable Solutions (CS3) process.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Robert Phinney, AIA, PMP, ENV SP, LEED Fellow	Sustainable Design Guidelines	A. TOTAL	B. WITH CURRENT FIRM
		19	3

15. FIRM NAME AND LOCATION *(City and State)*
 HDR Architecture, Inc. *(Alexandria, VA)*

16. EDUCATION <i>(Degree and Specialization)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
Master of Architecture, North Carolina State University, 2002 Bachelor of Science, Architecture, University of Virginia, 1994	LEED Fellow, United States National Registration Project Management Professional, United States National Registration ISI Envision Sustainability Professional, United States National Registered Architect: Virginia

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Robert is the Director, Sustainable Design Services and an architect with a focus on sustainable design and efficient operations solutions. He leads the diverse team of HDR’s Eastern Sustainable Design Professionals who manage the LEED process for a range of S+T, Healthcare, Governmental, and University projects. He is very active in the green building community including local and national USGBC initiatives, the City of Alexandria Green Building Advisory Board, the Maryland Clean Energy Council and as an ambassador for the Living Building Challenge. He brings deep experience in implementing sustainable strategies in federal, civic, and healthcare projects as well as policy development assistance to many regional municipalities and organizations.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Department of Veterans Affairs, East Region IDIQ-Sustainability Team, Nationwide	2013	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Sustainable Design Project Manager. HDR was tasked under an existing VA AE IDIQ to revise their SFO language to account for changes in federal policy and mandates as well as applicability under the LEED system. As a direct contractor to the VA, we advised them on pending DOE policy changes to better understand how such changes would impact current and future construction projects as well as participated in ongoing energy policy planning meetings. As a result of the SFO updates and understanding of pending policy changes, HDR was asked to provide suggested updates and language to their Sustainable Design and Energy Reduction Manual, which was to be updated by internal staff based on our recommendations. Client: Department of Veterans Affairs		
b.	NASA Goddard Space Flight Center, Building 026 Renovation, Greenbelt, MD	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Sustainable Design Manager. Developed sustainability practices. HDR was awarded a task order under an Indefinite Delivery/Indefinite Quantity (IDIQ) contract to provide full architecture and engineering services for the renovation of Building 026 on NASA’s Goddard Space Flight Center campus in Greenbelt, Maryland. Building 026 is more than 40 years old and is due for a major renovation. The 54,000 GSF building will house approximately 130 personnel from the Management Operations Directorate in a general office environment. Client: NASA, Project Cost: \$12 million		
c.	Fort Belvoir Community Hospital, Fort Belvoir, VA	2011	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Sustainable Design Project Manager. This 1,270,000 SF, \$747 million budgeted project includes an 128 -bed replacement inpatient/outpatient hospital, medical office building, ambulance shelter, helipad and parking garages. A Sustainable Return on Investment (SROI) analysis was also conducted for the hospital, which provided a full accounting of relevant social, economic and environmental impacts. Results demonstrated a clear distribution of benefits associated with project solutions such as economic value of water saved, air pollutants savings, greenhouse gases savings, water bill savings, and energy bill savings. This is LEED Silver register.		
d.	Fort Bliss Army Medical Center, Fort Worth, TX	2013	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Sustainable Designer. Replacement campus for the U.S. Army. Includes new hospital, two clinics, administration building, research building, central utility plant and two parking garages. The medical center will serve two states, three military installations and serve as a trauma center for the surrounding community. Extensive modeling of the impact of daylighting including the potential implementation of skylights, verifying occupant comfort, and daylight level analysis in patient rooms. The design modeling for mechanical and electrical/lighting resulted in SROI justification for exterior shading system at six floors of clinical waiting space spread across two building and the expansive lobby connecting the various functions of the hospital buildings. The project is tracking for Silver LEED Certification with Gold LEED as the goal of the project. Client: USACE Project Cost: \$950 million (est.)		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Christopher Behr, LEED AP		Economist		A. TOTAL	B. WITH CURRENT FIRM
				19	7
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
HDR Engineering, Inc. <i>(Silver Spring, MD)</i>					
16. EDUCATION <i>(Degree and Specialization)</i>				17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
Master of Science, Civil Engineering, Cornell University, 2001 Master of Science, Natural Resource, Economics, University of WI Madison, 1994 Bachelor of Arts, Economics/Finance, University of Vermont, 1990				LEED Accredited Professional, United States National Registration	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
Christopher Behr is an economist and engineer who specialize in evaluating system risk and reliability, and economic consequences, to improve client decision making. His diverse set of analytical skills (involving financial, cost-benefit, cost-risk analyses, environmental valuation, and statistics) have been applied on a wide range of infrastructure including transportation (seaports, railroads, highway), water / wastewater, energy (production and transport), and buildings in the U.S. and overseas. Often his projects include workshops in which he facilitates discussions on topics such as technical engineering solutions and economic forecasts.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Financial Analysis of Green Design Options, Ft. Belvoir, VA			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2009	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager / Lead Economist. Led financial analysis of a number of green design features at two military facilities in Ft. Belvoir, VA. The facilities include a dental clinic and administrative building. Analysis produced results consistent with government guidelines from Department of Energy 10 CFR Sec 436, including life cycle costs (LCC), net savings, savings-to-investment ratio (SIR), and adjusted internal rate of return (AIRR). In each facility, the analysis compared baseline designs (without energy savings) with three alternatives.					
b.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Financial Analysis of Green Design Options. Veterans Administration Building, Tampa Bay, FL			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2009	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager / Lead Economist. Led financial analysis of over a dozen specific green design features at a Veterans Administration Hospital Building in FL. Analysis produced lifecycle cost effectiveness results consistent with government guidelines from Department of Energy 10 CFR Sec 436. The analysis compared the benefits of individual improvements against the baseline and determined which ones could improve the overall building scale lifecycle cost effectiveness.					
c.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Sustainable Return on Investment Analysis of Green Design, Marine Installation, Iwakuni, Japan			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2010	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Lead Economist. Performed a sustainable return on investment for several types of improvements at Iwakuni that relate to transportation, energy, water and waste management. Results were incorporated into the strategic planning process for the installation.					
d.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Life Cycle Cost Analysis - Stormwater Management, New York City Economic Development Corporation, New York City, NY			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2008	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Lead Economist. Led the analysis of life-cycle costs of green infrastructure systems (such as green roofs and porous pavement). Data on design options and costs was formed into a database. Risk analysis was employed to characterize cost uncertainty. Results contributed to the City's guidelines on green infrastructure for reducing runoff.					
e.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	SROI Model, Water Reuse Commission, King County, WA			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2007	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Lead Economist. Developed cost-benefit and triple-bottom-line analytical models for evaluating alternative drinking water supply sources. The cost-benefit model computes the total net present value of projects and the distribution of costs and benefits among stakeholders. The triple-bottom-line assesses the alternatives under multiple criteria for each of the bottom lines: financial, environmental and social.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Michael McMahon, ENV SP	Climate Impacts Assessment	A. TOTAL	B. WITH CURRENT FIRM
		28	6

15. FIRM NAME AND LOCATION *(City and State)*
 HDR Engineering, Inc. *(Denver, CO)*

16. EDUCATION <i>(Degree and Specialization)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
Bachelor of Science, Meteorology, San Jose State University, 1985	ISI Envision Sustainability Professional, Nebraska, United States

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Mike has more than 20 years experience applying science and technology solutions in his expertise as a meteorologist/atmospheric scientist. He has specialized scientific expertise in forecasting micro/mesoscale weather and atmospheric events for use by government, energy, aviation and aerospace industries, among others. Besides his global forecast modeling specialization, he has supported IT applications as well as the installation and troubleshooting of computer and atmospheric monitoring hardware. He has been an invited speaker and given presentations on meteorological and atmospheric topics at industry forums and educational institutions. Mike has been a frequent award winner for professional services provided to his employers. These awards have resulted from innovative approaches and commitments that have led to increased customer satisfaction and better efficiencies and cost savings in operations.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Boeing Corporation, Operational Aviation Meteorology, San Jose, CA	2006	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input type="checkbox"/> Check if project performed with current firm	
	Senior Meteorologist. Coordinated operations and maintained all database and data allocation systems in a 7/24/365 time critical and data perishable environment. Daily analysis and forecasting utilizing the MM5, RUC, WRF, and GFS global atmospheric modeling data, as well as GIS, GPS, and satellite imagery in support of operations. Management of technical aviation/meteorological data ingest, analysis, derivation, and allocation for a worldwide customer base, which included NASA, USAF 89th Air Wing (AF1), Boeing, Netjets, UT, Gulfstream, and Microsoft.		
b.	Department of Water Resources, Bay-Delta EIS/EIR-Climate Change, CA	2009	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Senior Meteorologist. The Bay-Delta Conservation Plan (BDCP) EIS/EIR project addresses any and all environmental issues that could impact the Bay-Delta region of California as a result of any significant changes in water flow through this ecosystem. This portion of the project focuses on the impact of climate change on the project from either man-made interaction or natural variability. This included the analysis of current Global Climate Model output with statistical or dynamic downscaling, and the analysis of multi-decadal variability due to changes in the global energy budget (hydro-climate indices).		
c.	Environmental Protection Agency, EPA R8 Nelson Tunnel NPL Site, Creede, CO	2011	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Senior Meteorologist. Responsible for assessing impacts from a historical mining district to the Willow Creek Watershed and the Rio Grande. A feasibility study was performed to develop a range of remedial alternatives at reducing metals loads. Remedial alternatives were evaluated to determine the degree of improvement that may be achieved in Willow Creek surface water as well as the probability that the Rio Grande will be in compliance with the calculated Total TMDL and Table Value Standards.		
d.	Folsom Reservoir Cold Water Pool Modeling - El Dorado Irrigation District, Placerville, CA	2011	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Senior Meteorologist. Investigated whether cold water pool management may be more effectively achieved through improvements to the Bureau of Reclamation's Folsom Dam outlets and shutter facility in lieu of the district's diversion facility. Modeling was performed using the Bureau of Reclamation's Coldwater Pool Management Model (ICPMM) to quantify the volume of cold water pool that was currently lost due to the limitations associated with the existing structures and the volume of water that could be accessed through improvements to the existing El Dorado Irrigation District and/or Reclamation structures. Completed a comparative assessment of cold water pool benefits, specifically the change in volume of the cold water pool and the ability to access this water (60 degree water). Prepared a summary report documenting the results of the modeling effort, as well as the opportunities and benefits that may be achieved through certain improvements to the dam's outlets, shutter facilities, and temperature control devices. The project also included coordination with the Bureau of Reclamation, National Marine Fisheries Service (NMFS), and U.S. Army Corps of Engineers.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Steven Tozer, AIA, LEED AP BD+C	Architecture Task Manager	A. TOTAL	B. WITH CURRENT FIRM
		29	6
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
HDR Architecture, Inc. <i>(Tampa, FL)</i>			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
Master of Architecture, University of Pennsylvania, 1992 Bach of Design in Architecture, Architecture, University of Florida, 1986		Registered Architect, Florida, Georgia LEED Accredited Professional, Building Design + Construction	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			
Steve is an experienced project Manager with over 23 years' work on institutional, government and commercial projects. He has been responsible for a broad spectrum of building types including aviation, environmental, scientific / research facilities, hospitals, courthouses, sports & recreation, schools and commercial projects.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Broward County Aviation Department - General Engineering Consulting Services, Soffit Replacement and Terminal 4 Curbside Canopy, Broward County, FL	2011	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. The HDR Team developed the design documents for two separate projects procured under one bid for repair and improvements at the passenger terminals at FLL. The soffits at Terminals 2, 3 and 4 had all been damaged by recent hurricanes and were funded for repair from a FEMA grant. BCAD also needed to extend the canopy at Terminal 4 to provide passenger cover at the departure level. Under a fast-track schedule, HDR developed Construction Documents (plans and specifications) including full architectural, structural, mechanical and civil site plans. A key component of the project included a comprehensive Maintenance of Traffic (MOT) Plan to manage pedestrian and vehicle access and flow during nighttime construction activities. HDR's scope included procurement assistance, construction contract administration, and resident project representation on the owner's behalf. The lowest responsive bid was well within the engineer's estimate and the project is scheduled to finish on time and within budget.		
b.	Broward County Aviation Department - General Engineering Consulting Services, Pedestrian Bridge Rehabilitation, Broward County, FL	Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. A Task Order from HDR's FLL General Engineering Contract, HDR is developing design documents for the rehabilitation of four existing pedestrian bridges at FLL which link Terminals 2, 3 and 4 with the central parking garages. The first phase is the Demolition and Cleaning of the bridge structure to remove rust damage and lead-based paint. The second phase will be the Repair and Redesign of the bridges. Structural damage to the steel truss frame will be repaired and the bridges' architectural treatment will be redesigned in accord with BCAD's Public Arts program. HDR is working with BCAD's Artist to implement their design intent and serve as Design Professional of Record. Services will include Construction Contract Administration and onsite Resident Project Representation during construction. Demolition and Cleaning construction contract award is planned for November, 2012, with award of the Repair and Redesign planned for Spring 2013.		
c.	Fort Belvoir Community Hospital, Ft. Belvoir, VA	2010	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. This DOD project is 1,100,000 gsf, with a \$650m budgeted construction cost. The project includes a 128 -bed replacement hospital (to house inpatient and outpatient services), central utility plant, medical office building, ambulance shelter, helipad and vehicle parking garages. HDR is providing full A/E services including consulting, equipment planning, AT FP security planning and design, and full environmental services (including storm water retention, environmental impact analysis, site improvements and landscape design).		
d.	Fort Bliss Hospital Replacement, Administration & Education Building, El Paso, TX	2010	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. 1.2 million SF replacement hospital campus at Ft. Bliss, Texas comprised of Critical Care Hospital, Outpatient Clinic Buildings, Administration & Education Building, Research Building and Central Utility Plant.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Timothy Fish, PE	Aviation Planning Lead	A. TOTAL	B. WITH CURRENT FIRM
		11	3
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
HDR Engineering, Inc. <i>(Fort Lauderdale, FL)</i>			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
BS, Civil / Environmental Engineering		Professional Engineer, Florida	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			
Tim has over 9 years 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, Tim has been responsible for contract management, sub-consultant/contractor oversight, project scheduling, regulatory compliance and permitting, surface water modeling, and design-build-operation management.			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Broward County Aviation Department (BCAD), Fort Lauderdale/Hollywood International Airport Terminal 4 Apron Civil Works, Broward County, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		ongoing	NA
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Engineer. Mr. Fish served as 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			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	I-10 Emergency Bridge Repair, Pensacola, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2004	2004
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Field Engineer. Due to the wrath of Hurricane Ivan on September 16, 2004, nearly a quarter mile of the two-lane double span I-10 concrete bridge spanning Escambia Bay was torn apart. The destruction halted the bridge's nearly 42,000 daily vehicles, and forced truck traffic to take an inconvenient detour north of I-10. Mr. Fish served as a field engineer on a team which quickly responded to the \$33.7 million design-build reconstruction effort by reopening the westbound span to two-way traffic in just 17 days – 7 days ahead of schedule. Exceeding expectations, the project team reopened the eastbound span 26 days ahead of the original 90-day completion schedule. The 2.5-mi.-long spans suffered extensive damage amid one of Florida's hardest hit areas. Forty-six eastbound concrete sections were knocked out or misplaced by the 10-ft.-high storm surge, and approximately 28 westbound sections were damaged or misaligned. To get traffic moving again, crews repaired the less-damaged westbound span using eastbound sections. Crews either used barge-mounted cranes to lift the 235-ton sections into position, or employed barges with hydraulic jack trailers to lift up sections and then float them into place. The majority of eastbound reconstruction comprised more than 3,400 lineal ft. of temporary steel bridge sections.			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Washington Dulles International Airport AeroTrain System, Chantilly, VA	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2004	2005 - 2007
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Engineer. Mr. Fish served as project engineer on a team responsible for cost estimating, construction phasing, review and analysis of geotechnical investigation data, project scheduling utilizing Primavera P3 software, and plan review for the construction of a future Underground AeroTrain System at Dulles International Airport. Responsibilities included coordination of Tunnel Boring Machines (TBM's), selecting open cut locations, and scheduling project while keeping day to day airport activities functioning. Team analyzed many different phasing options to determine which would be most cost efficient and provide for shortest total schedule length while having no adverse effects on airport activities.			
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Miami International Airport H-J Apron, Miami, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2006	2006 - 2007
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Field Engineer. Mr. Fish served as field engineer on a team responsible for construction of the \$47 million H-J Apron and Utilities project at Miami International Airport which was part of the Miami Dade Aviation Department's South Terminal Expansion Program. The project was divided into 12 phases and included construction of an 80,000-square-yard Portland Cement Concrete apron around the proposed Concourse J, as well as a remote concrete aircraft parking apron and new asphalt pavement for the adjacent taxi lanes throughout the South Terminal program area.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Kirk Dunbar	Air Emissions	A. TOTAL	B. WITH CURRENT FIRM
		24	18
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
HDR Engineering, Inc. <i>(Minneapolis, MN)</i>			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
Bachelor of Science, Aerospace Engineering, Iowa State University, 1989		Air and Waste Management Association, Member	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			
Kirk is an environmental engineer specializing in air quality modeling and permitting of various energy and industrial facilities. His experience includes preparing PSD, state construction, and Title V permit applications, conducting emission rate reviews, writing pollution prevention plan reports, planning and executing air dispersion modeling projects, negotiating permits with state and federal regulatory agencies, and reviewing stack testing plans and reports. Kirk has reviewed numerous state and federal regulations and evaluated their applicability and impacts.			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Boise International Airport, Terminal Redevelopment and Roadway Improvement Project, Boise, ID	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2011	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Environmental Engineer. Kirk developed general conformity air quality analysis, as required under federal air quality rules and NEPA, for the Boise International Airport. Project tasks included running the FAA required Emissions & Dispersion Modeling System, EDMS, and general conformity air quality analysis, as required under federal air quality rules and NEPA.			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Pinellas County Resource Recovery Facility, Clearwater, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2004	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Environmental Engineer. Kirk prepared a Prevention of Significant Deterioration (PSD) air quality permit application to permit use of portable diesel engines to support process operations. Project tasks included management responsibility as well as preparation of the applicability, BACT, air quality, and additional impacts analyses; completion of permit application forms; review of an associated environmental review document (EAW); and negotiations with the state regulatory agency. Kirk conducted a review of refinery process flow diagrams and determination of total number of valves, pumps, and compressors in hazardous air pollutant service. He also prepared a major permit amendment application for the installation of a thermal oxidizer on the facility's wastewater treatment plant. The project included a review of the requirements of NSPS Subpart J and modeling of facility SO2 emissions.			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Marathon Petroleum Company, St. Paul Park Refinery, St. Paul Park, MN	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2012	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Environmental Engineer. Kirk prepared a Prevention of Significant Deterioration (PSD) air quality permit application to permit use of portable diesel engines to support process operations. Project tasks included management responsibility as well as preparation of the applicability, BACT, air quality, and additional impacts analyses; completion of permit application forms; review of an associated environmental review document (EAW); and negotiations with the state regulatory agency. He conducted a review of refinery process flow diagrams and determination of total number of valves, pumps, and compressors in hazardous air pollutant service. He also prepared a major permit amendment application for the installation of a thermal oxidizer on the facility's wastewater treatment plant. The project included a review of the requirements of NSPS Subpart J and modeling of facility SO2 emissions. The modeling included the use of both the ISC3 and the CTSCREEN models. In addition, Kirk was responsible for preparation of a startup, shutdown, and malfunction plan (SS&MP) and a flow chart summarizing MACT modification requirements for various process units as required by the applicable NESHAP and MACT standards. He also prepared a major permit amendment application for the installation of a new sulfur recovery unit, including synthetic minor limits to avoid PSD. The project included preparation of emission calculations, completion of permit application forms, and modeling of facility SO2 emissions. Kirk also prepared Title V required modeling protocol and analysis for facility PM-10 emissions, and was responsible for preparation of administrative, minor, moderate, and major amendment applications for various projects initiated by the facility. This work also included preparation of Title V permit renewal application. The project tasks included correction of emissions information provided by the MPCA, completion of MPCA renewal forms, and preparation of a discussion regarding the applicability of CAM to the facility's emissions units. Since completion of the diesel engine project, Kirk has continued to provide a variety of modeling, permitting, and compliance-related activities for Marathon.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Jason McGlashan, PE		Surface Transportation		A. TOTAL	B. WITH CURRENT FIRM
				20	20
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
HDR Engineering, Inc. <i>(Orlando, FL)</i>					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
Master of Civil Engineering, University of Central Florida			Professional Traffic Operations Engineer - United States Professional Engineer		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
As a consultant since 1993, Jason McGlashan has practiced transportation planning and traffic engineering in a wide variety of public and private assignments building upon a strong technical foundation to bring innovation, creativity and exceptional client service to each project. Jason has served as project manager and/or project engineer on Multi-Modal Regional Transportation Plans, Campus Master Plans, Airport Master Plans, City and County Comprehensive Policy Plans, Corridor and Access Management Studies, Design Traffic Reports, Congestion Management and Travel Demand Management Plans as well as a variety of traffic impact studies for both minor and regionally significant developments.					
19. RELEVANT PROJECTS					
c.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	City of Phoenix, Sky Harbor International Airport - West Area Expansion, Program Management, Phoenix, AZ			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2007	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Engineer Staff. HDR partnered with DMJM Aviation, Inc. to provide the City of Phoenix with the program management expertise they needed, serving in essence as an extension of the Aviation Department. HDR provided the Deputy Project Manager, the Project Controls Manager and engineering support in the areas of roadway, traffic control, utilities and drainage. The HDR/DMJM team was responsible for the establishment of programming guidelines and will furthermore provide design and cost estimates, assist with RFP development and participate in the design selection process.					
a.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	West Florida Regional Planning Council General Planning Consultant Services, FL			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2005	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
General Engineering Consultant. As the General Engineering Consultant for the West Florida Regional Planning Council, Mr. McGlashan is also managing the LRTP for the Panama City MPO covering Bay County. This plan update includes two-digit conversion of the travel demand model as part of the regional validation and includes the same project elements as the Pensacola MPO LRTP. This project is being completed concurrently with the Pensacola MPO LRTP, demonstrating Mr. McGlashan's strong project management and multi-tasking capabilities					
b.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Metroplan Orlando, 2025 Long Range Transportation Plan, Orlando, FL			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2003	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager General. Mr. McGlashan was the technical production manager for the METROPLAN ORLANDO 2025 LRTP Update. In this role, he was responsible for developing the multi-modal forecasting model and supporting analysis that led to the creation of the 2025 Cost Feasible transportation plan. He was also responsible for developing land use strategies, ITS integration, and preparation of the Congestion Management Plan for the three county region. Over the course of the project he worked extensively with numerous stakeholders, advisory groups and the public.					
d.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Southern, Orlando International Airport South Terminal Complex DRI/ADA, Orlando, Florida			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2004	2004
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Engineer. Jason was the Project Engineer in charge of completing the Question 21 requirements of the development application. The 20 year design horizon required a regional impact analysis of adding 40 million annual passengers to the surrounding ground transportation systems consisting of light rail, high speed rail, express transit, and traditional auto modes.					

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Timothy Casey, QEP	Noise Evaluation	A. TOTAL	B. WITH CURRENT FIRM
		27	24

15. FIRM NAME AND LOCATION *(City and State)*

HDR Engineering, Inc. *(Minneapolis, MN)*

16. EDUCATION *(Degree and Specialization)*

Bachelor of Science, Biological/Life Sciences, Saint Xavier University, 1988
Associate of Science, Science, Valley Community College, 1986

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

Qualified Environmental Professional - United States

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Tim is HDR's National Environmental Acoustics Program Manager and has nearly 20 years of experience addressing noise and vibration on projects throughout the United States. He has extensive experience performing noise and vibration analyses for projects involving stationary and mobile sources including combustion turbines, wind farms, and other noise sources associated with power & energy industries. Tim's experience includes presentations at public meetings, before city councils, and expert witness testimony for projects in locations throughout the United States and Puerto Rico.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Block E Sound Transmission Class Evaluation, Minneapolis, MN	Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Acoustic Engineer. Block E is a relatively new retail/entertainment/luxury hotel complex in the heart of downtown Minneapolis. HDR evaluated the sound transmission characteristics of walls between guest rooms in the hotel, to determine if the acoustical performance of the walls complied with local building codes.		
b.	Burlington Northern Sante Fe Railway	2009	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Acoustic Engineer. HDR performed an analysis of noise emissions associated with a proposed intermodal facility. The analysis included 24-hour measurements of existing noise levels at numerous locations in the project area, and measurements of noise from activities at an existing BNSF intermodal facility. HDR used the Cadna-A model in this analysis. Mr. Casey managed this analysis.		
c.	Calaveras County Water District, Copper Cove Water System Zone C Pumping Station and Transmission Main Improvements, San Andreas, CA	2010	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Acoustic Engineer. Mr. Casey provided preliminary design and final design of a new 2,000 gpm (4,500 gpm buildout) water pumping station and approximately 10,000 linear feet (LF) of 20-inch-diameter water transmission main. Mr. Casey conducted a noise study during design of a new 2,000 gpm (4,500 gpm buildout) water pumping station and approximately 10,000 linear feet (LF) of 20-inch-diameter water transmission main.		
d.	Chanhasen Alternative Urban Areawide Review (AUAR), Kimley-Horn and Associates, Inc., Chanhasen, MN	2009	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. HDR provided noise analysis services for this AUAR, which is essentially an areawide environmental assessment worksheet (EAW). The project involved developing a 600 acre parcel into residential, commercial, recreational and other land uses. Mr. Casey managed the project and made a presentation to the Chanhasen Planning Commission.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Michelle Dusseau Diller, PE, LEED BD+C, ENV SP	Water Quality and Conservation Stormwater and LID	A. TOTAL	B. WITH CURRENT FIRM
		19	6

15. FIRM NAME AND LOCATION *(City and State)*
 HDR Architecture, Inc. *(Alexandria, VA)*

16. EDUCATION <i>(Degree and Specialization)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
Master of Environmental Science (Water Resources), Indiana University Bloomington, 1996 Master of Public Affairs, Indiana University Bloomington, 1996 Bachelor of Science, Materials Science and Engineering, University of Michigan, 1990	ISI Envision Sustainability Professional, United States National Registration Project Management Professional, United States National Registration LEED AP Building Design + Construction, United States National Registration Professional Engineer - Environmental, Florida Stormwater Inspector, Florida

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Michelle is a civil/environmental engineer with extensive experience in stormwater management system design and environmental regulation. Her technical background also includes wastewater, erosion control best management practices (BMPs), materials selection and quality control. Michelle previously served as the Drainage Section Manager in HDR's Pensacola, FL Engineering office and is currently a member of HDR's Alexandria Sustainable Design Services team, providing direction and leadership to the design team regarding sustainable strategies and compliance with LEED requirements. She continues her professional development through organizations such as the American Society of Civil Engineers and the U.S. Green Building Council.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	NAVFAC Southeast, NOSC Track and Improvements Jacksonville Naval Air Station, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
LEED AP Project Administrator. Project includes design, construction specifications, and permitting for complete fence upgrades with automatic gates with card readers, investigation of traffic patterns, expansion of the current parking lot, exterior lighting, removal of vegetation, and addition of perimeter rubber jogging track.			

b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	USACE Huntsville A-E IDIQ Contract W912DY-09-D-0067, Worldwide	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	Check if project performed with current firm	
Geotechnical Engineer. As part of the Huntsville 5 year IDIQ contract with the US Army Corps of Engineers, HDR is providing full A/E services for the new Fort Bliss Community Replacement Hospital. The approximately \$1 Billion medical center will be a Department of Defense World-Class medical facility replacing the current William Beaumont Army Medical Center in El Paso, Texas. The 1,132,460 GSF complex incorporates state-of-the-art planning and design ideas including the latest research in Evidence-Based Design, sustainability, and innovations promoting family and patient-centred care. Additionally, HDR, in partnership with German A/E partner TMK, performed an Independent Technical Review (ITR) of the S2 Submission for the Kaiserslautern Medical Center, which will replace the Landstuhl Regional Medical Center. In a parallel work effort, the HDR/TMK team Value Engineering Study provided alternatives that could represent \$140 Million in savings for the project.			

c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	USACE Ft Bliss Hospital, El Paso, TX	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	Check if project performed with current firm	
LEED AP Project Administrator. The Medical Center will be a 1,132,460 SF, \$950M top-notch medical facility replacing the current William Beaumont Army Medical Center (WBAMC) in El Paso, Texas. Team objectives included the following: Develop a 'State-of-the-Art' World Class Military Medical Center. Provide a sustainable, adaptable and flexible facility supporting the required healthcare delivery to military personnel and their families. 'Silver' LEED Certification with 'Gold' LEED as the goal of the project. Incorporate Evidence Based Design (EBD) and Patient/Family Centered Care concepts and design elements. Design an aesthetically pleasing facility within its environmental context in harmony with the Fort Bliss and El Paso communities. 137 bed nursing tower and a helipad on site			

d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Renovate A School Barracks, NAS Pensacola, Corry Station, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2011	2014
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	Check if project performed with current firm	
LEED AP Project Administrator. HDR designed the complete interior and exterior renovation of two 3-story barracks and one 2-story barracks that were originally built in 1975. The estimated construction cost is \$12.1M. These buildings house "A" School students training at the Center for Information Dominance. The facility is designed to comply with LEED Gold, DoD ATFP, ABA, EPACT 2005, LID, and Navy and Marine Corps Bachelor Housing criteria, UFC 4-721-10.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Brenda Clark	Solid Waste	A. TOTAL	B. WITH CURRENT FIRM
		31	6
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
HDR Engineering, Inc. <i>(Fort Lauderdale, FL)</i>			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
BS, Civil / Environmental Engineering		Professional Engineer, Florida	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

Based out of our Ft. Lauderdale office, Ms. Clark is a professional engineer with over 20 years experience in the solid waste and environmental industry. Ms. Clark has experience in the planning of solid waste management systems, design and permitting of solid waste management facilities, including site/facility assessments, public outreach, waste generation studies, site plan approval, geotechnical and hydrogeological investigations, liner and leachate management systems, landfill closure, gas management systems, financial assurance, material specifications, and operation plans. Ms. Clark has also been responsible for performing and managing environmental site assessments, regulatory interaction, development of remedial action plans, regulatory compliance monitoring, and reporting for contaminated sites.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Solid Waste Master Plan, Department of Solid Waste Management, Miami-Dade County, FL	active	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager. Ms. Clark has served as the Project Manager for the development of a Solid Waste Master Plan. The two phase project includes: Phase I an assessment of the existing solid waste management system, including a public outreach program, waste composition study, assessment of existing programs and facilities (collection, recycling, transfer stations, landfills, waste-to-energy, trash and recycling facilities, and Home Chemical Collection Centers), the regulatory requirements at the federal, state, and local level that impact the system, waste generation rates, and the financial health of the system. These activities have allowed the HDR Team to identify the needs of the system for the planning period (50 years). Once the needs were identified, the HDR Team worked with the County and the community to identify those options that would address their needs.		
b.	Material Recovery Facility Permitting, Sun Recycling, LLC, South FL	active	active
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager and Project Engineer – providing professional services for the issues associated with the design, permitting, and operation of 11 C&D material recovery facilities (MRFs) located in Miami-Dade, Broward, and Palm Beach Counties, including local site plan approval, renewal of operating permits for the MRFs, modification of operating permits, operational issues associated with the generation and testing of the recovered screened material (RSM), and compliance monitoring, design and permitting of surface water management systems (ERP) and surface water recertification, air permitting, permitting of a hurricane debris staging area on top of an old closed landfill. Ms. Clark has also performed the required ground water compliance monitoring for the MRFs.		
c.	Fort Lauderdale-Hollywood International Airport, Broward County, FL.	active	active
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager and Project Engineer – multiple environmental projects including: (i) performed an evaluation of an old debris field to characterize the existing materials to develop a management plan for the handling of the materials; (ii) performed a site assessment of an old rental car facility to evaluate the impact to the subsurface soils, obtained regulatory approval of the site assessment, prepared and obtained regulatory approval for the soils management plan; (iii) performed a site assessment of fuel spills at multiple sites, obtained regulatory approval of the site assessment, coordinated with airport staff on the development of a remedial strategy, prepared and obtained approval of a remedial action plan; (iv) managed a source removal for contaminated soil; and (v) implemented a remedial action plan for the cleanup of a fuel impacted site, performed post active remediation monitoring.		
d.	Dade Recycling & Disposal, Peerless Waste Industries, Miami-Dade County, FL	2010	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Project Manager and Project Engineer – responsible for the design of lined Class III landfill, assisting the owner with technical issues during the zoning process, permitting a ground water monitoring plan with the local regulatory agency, installing the ground water monitoring wells, preparing and obtaining regulatory approval for a contamination assessment plan, implementing and reporting the results of the contamination assessment plan, and working with the client and the regulatory agency to accept a monitoring only plan. Ms. Clark was also responsible for the design and permitting of the closure plan for approximately 400-acres of C&D landfill.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Matthew Beckingham	Commissioning	A. TOTAL	B. WITH CURRENT FIRM
		34	6
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
HDR Architecture, Inc. <i>(Tacoma, WA)</i>			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
Ft. Steilacoom College, 1977 Tacoma Community College, 1994			
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			
Matt Beckingham has over 30 years experience in facility operations and construction. His management of construction and building operations demonstrates his hands-on approach to resolve challenges and successfully direct complex commissioning projects and staff. Matt's expertise also includes integration of commissioning, systems troubleshooting and balancing services for campuses, specialty facilities laboratories, central utility plants, advanced fan and mechanical systems, airports, governmental, commercial and institutional facilities.			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Cleveland Clinic Inpatient Tower LEED Commissioning, Abu Dhabi, UAE	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2009	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Commissioning Executive. Commissioning for the design review for the 360 bed 4.5M square foot acute care inpatient tower; major outpatient clinic; conference center and associated services and functions. The facility is comprised of four major components: Comprehensive commissioning services for mechanical, electrical, and sustainable systems include: air handlers, boilers, terminal units, fan coil units, exhaust fans, smoke evacuation fans, medical gas system, medical vacuum system, DDC control system, fire pumps, emergency generators, elevators, laboratory instrument compressors, gray water system, domestic water booster pumps, nurse call and transparent glass "Smart Glass" system.			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Veterans Administration, Hospital, Administration Bldg, Outpatient Clinic, San Juan, Puerto Rico	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2009	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Commissioning Executive. LEED Commissioning of this \$154 million, 540,000 SF medical center. The outpatient space will be moved to the 3rd floor to allow for the renovation project to proceed while keeping the hospital functional.			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	USACE, Ft. Bliss Replacement Hospital, El Paso, TX	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Commissioning. The Medical Center will be a 1,132,460 SF, \$950M top-notch medical facility replacing the current William Beaumont Army Medical Center (WBAMC) in El Paso, Texas. Team objectives included the following: Develop a 'State-of-the-Art' World Class Military Medical Center. Provide a sustainable, adaptable and flexible facility supporting the required healthcare delivery to military personnel and their families. 'Silver' LEED Certification with 'Gold' LEED as the goal of the project. Incorporate Evidence Based Design (EBD) and Patient/Family Centered Care concepts and design elements. Design an aesthetically pleasing facility within its environmental context in harmony with the Fort Bliss and El Paso communities. 137 bed nursing tower and a helipad on site			
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	USACE Huntsville, VISN16 Green Globes Assessment – Commissioning	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2009	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Commissioning. HDR performed site assessments for three facilities totally 3.1 million SF and assisted with assembly of documentation required for Green Globes certification. The Assessment Report identified and documented the maximum potential points under the Green Globes. It also suggested long-term improvements for water conservation, energy efficiency, management of resources, the quality of interior environment and control of emissions			
e.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	US Army Corps of Engineers, Ambulatory Care Center Lackland Air Force Base, Fort Worth, TX	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2009	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Commissioning Principal. HDR's Commissioning & Facility Services group has teamed with an independent 3rd party consultant to provide whole building commissioning services for the MEP systems and critical elements of the building envelope. HDR has teamed. LEED Fundamental and Enhanced Commissioning requirements are included in HDR's scope of work.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Debra Hempel	Public Outreach	A. TOTAL	B. WITH CURRENT FIRM
		28	8

15. FIRM NAME AND LOCATION *(City and State)*
HDR Engineering, Inc.(Tampa, FL)

16. EDUCATION <i>(Degree and Specialization)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
Bachelor of Arts, Geography, University of South Florida, 1980	American Institute of Certified Planners, United States National Registration

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Debra provides management, planning, communications, and public engagement services on complex urban design, town planning, and transportation projects across the country. Prior to joining HDR, she worked with Duany Plater-Zyberk & Associates (DPZ), one of the pre-eminent town planning firms in America. With DPZ, Debra served as project coordinator on more than 100 community-planning projects throughout the US and internationally. She is a certified Charrette Planner through the National Charrette Institute (NCI) and currently serves as co-instructor for NCI charrette training to both public and private sector clients. Her diverse professional experience includes six years as a cartographer, eight years as marketing manager and permit coordinator for a mid-sized environmental, planning, and engineering firm, and 10 years as a community planner.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Florida Department of Transportation, US 19 PD&E, Pasco County, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2008	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Public Involvement. Responsibilities include attending public meetings, newsletters production, advertising, summary reports and coordination with FDOT on public involvement issues. HDR's services for this 19.7-mile project include data collection, roadway and intersection analyses and alternatives, turn-lane improvements, a safety analysis, access management evaluation along the corridor, and public involvement.			

b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	City of Treasure Island, Downtown Redevelopment Plan, Treasure Island, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2006	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Charrette Coordinator. HDR's planning and design team was responsible for developing a Downtown Redevelopment Master Plan for the Treasure Island community. The plan provides urban design recommendations, parking solutions, development regulation alternatives, assessment of infrastructure, market analysis and an implementable strategic plan.			

c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Hillsborough County, Lithia Pinecrest Road PD&E Study, Brandon, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2007	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Public Involvement. Public involvement for this 10.95-mile project. Responsibilities include attending public meetings, production of newsletters and handouts, advertising, and coordination with Hillsborough County on public involvement issues.			

d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Monroe County, Key Largo Livable CommuniKeys Master Plan Key Largo, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2007	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Urban Planner. The project included analysis and recommendations relating to redevelopment trends, protection of natural resources, housing alternatives, and the development of design guidelines. An extensive community participation program was also created that included newsletters, community survey, and a community design charrette.			

e.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Orange County Govt., Northwest Transfer Station Orange County, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2012	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Public Involvement. HDR was selected by Orange County for the site selection, permitting, engineering, and design of the proposed transfer station facility. Efforts included the development of screening criteria, researching property availability, application of screening criteria, site selection recommendation, population data review, waste generation rate, and material quantity analysis.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Robb Kirkman	GIS Consultant	A. TOTAL	B. WITH CURRENT FIRM
		22	9

15. FIRM NAME AND LOCATION *(City and State)*
 HDR Engineering, Inc. *(Salem, OR)*

16. EDUCATION <i>(Degree and Specialization)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
Master of Science, Management of Science & Technology, Oregon Health Sciences University, 2006 Bachelor of Arts, Geological & Related Sciences, University of Kansas, 1991 Bachelor of Arts, Environmental Sciences/Studies, 1991	Esri ArcGIS Desktop Professional, United States National Registration Certified GIS Professional, Oregon

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*
 Robb is the HDR Northwest Regional GIS Coordinator, and a technical manager with years of experience in spatial sciences, specifically in GIS and remote sensing. His background includes spatial analysis, modeling, visualization, and communications, and has worked extensively in the fields of transportation and urban planning, natural resources, and decision sciences. Robb has specialized in GIS project management, notably environmental inventories and the rapid design, implementation and operation of enterprise-level GIS for large, multi-disciplinary projects.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	City of Galveston, Galveston Planning & Development Regulation, Galveston, TX	2013	2013
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	GIS Coordinator. The City of Galveston, Texas has engaged HDR to assist in an ambitious planning program and complete an overhaul of the community's land development regulations. Through an intensive, collaborative process the HDR team is helping the City update its Comprehensive Plan; complete specialized plans addressing such topics as coastal management, resilience, sustainability and preservation and rewriting zoning and land use.		
b.	Oregon Water Resources Department, Statewide Demand Forecast, Salem, OR	2008	2008
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	GIS Coordinator. The project involved developing a database and demand forecasting tool that allows OWRD to assess water demand scenarios at the county or basin level. The main tasks of the project include stakeholder outreach and water use data collection, database development, and analysis of water use data and integrating the information in a demand forecasting model for major water use sectors. Water use sectors include municipal, domestic, industrial, agricultural, instream, and hydropower		
c.	Washington State Association of Counties, Integrated Project Review and Mitigation Tool (IPRMT), Olympia, WA	2009	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	GIS Coordinator. This project intends to build a web-based tool to allow local governments, permittees, developers, and others to quickly identify and evaluate potential mitigation sites for development projects. The web tool contains information needed to assess whether or not a site has potential to meet permitting objectives as well as watershed plan objectives.		
d.	Association of Washington Cities, Clark County One Stop Website Phase 2, WA	2007	2007
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	GIS Coordinator. Using legislative funds appropriated in 2006, AWC, WSAC, Clark County, the City of Vancouver, and HDR commenced work to build a data-driven decision support tool for three local critical area permits in Clark County. The decision support tool is a desktop application that aids permit writers to identify measures to avoid, minimize and mitigate impacts using project specific information		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Mark O’Grady, PE, LEED AP BD+C	Electrical Engineering	A. TOTAL	B. WITH CURRENT FIRM
		27	5

15. FIRM NAME AND LOCATION *(City and State)*

HDR Architecture, Inc. *(Atlanta, GA)*

16. EDUCATION *(Degree and Specialization)*

Bachelor of Science, Electrical Engineering, University of Illinois, 1987

17. CURRENT PROFESSIONAL REGISTRATION *(State and Discipline)*

LEED Accredited Professional
Professional Engineer

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Mark O’Grady is responsible for the overall management of electrical engineering projects. He manages the day-to-day electrical engineering design of these projects, and is responsible for quality control and standardization of engineering concepts. He maintains full responsibility for all design, production of contract documents, contract administration and engineering discipline communication. With more than 20 years of experience in engineering and designing electrical power distribution and control systems, Mark’s responsibilities have included supervising CAD personnel and other design staff, reviewing vendor and shop drawings, scheduling, man-hour and capital cost estimates, bid evaluations, and communication and coordination with the client and utility company.

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Georgia Institute of Technology Carbon-Neutral Energy Solutions (C-NES) Laboratory, Atlanta, GA	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2012	2012

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm

Senior Electrical Engineer. The mission for CNES laboratory is simple: carbon-neutral net-zero site energy use expressed simply, directly and honestly. The 42,000 SF/ 3,900 m2 lab is intended to set a new standard for sustainable design for buildings of its type by optimizing passive energy technologies, reducing electricity loads, and maximizing the use of renewable energy. It houses energy research programs requiring high-bay and mid-bay fabrication spaces. The project is Platinum LEED certified.

b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	University of Florida Pathogen Research Facility, Gainesville, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2008	2009

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm

Senior Electrical Engineer. This \$40M Pathogen Research Facility (PRF), home of the Emerging Pathogens Institute, integrates disciplines from the College of Medicine, CLAS, Veterinary Medicine and IFAS programs to attack problems of emerging and re-emerging diseases, including human, plant, and animal pathogens. The 110,000 SG multi-disciplinary environment promotes the sharing of knowledge between these normally disparate groups, expediting work to reduce the impact these pathogens have on public health and the economy in Florida, the United States, and the world. The project achieved LEED Gold Certification, exceeding the University’s goal of Silver.

c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	U.S. Army Corps of Engineers, Wilford Hall Ambulatory Surgical Center at Lackland Air Force Base, Lackland Air Force Base, TX	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm

Senior Electrical Engineer. The Ambulatory Care Center (ACC) is a \$457M "Super Clinic" focusing on outpatient care, and functionally operates as a hospital without beds. The 644,000 SF/ 59,830 m2 program includes urgent care, primary care, women’s health, orthopedics, physical medicine and rehab, medicine clinics, surgical subspecialties, mental health and full ancillary services, including radiology, surgery, lab and pharmacy, as well as logistics.

d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	University of Cincinnati Medical Sciences Building Phased Infrastructure Renovation, Cincinnati, OH	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2014	2014

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm

Senior Electrical Engineer. A \$124M LEED certified project, this phased 800,000 SF infrastructure renovation includes upgrading existing HVAC, plumbing, fire protection and electrical systems to improve laboratory airflow, energy efficiency and fire protection.

e.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	NASA Johnson Space Center, Space Life Sciences Laboratory, Building 21, Houston, TX	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2016	2016

(3) BRIEF DESCRIPTION *(Brief scope, size, cost, etc.)* AND SPECIFIC ROLE Check if project performed with current firm

Senior Electrical Engineer. The 114,000 SF facility will consolidate the Space Life Sciences Directorate biomedical labs along with their support personnel, research professionals, and management offices. It will be a state of the art biomedical research facility used to study the effects, capabilities, and limitations of humans living and working in space.

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME		13. ROLE IN THIS CONTRACT		14. YEARS EXPERIENCE	
Bill Zavatkay, PE, LEED AP		M.E.P		A. TOTAL	B. WITH CURRENT FIRM
				28	13
15. FIRM NAME AND LOCATION <i>(City and State)</i>					
HDR Engineering, Inc. <i>(Atlanta, GA)</i>					
16. EDUCATION <i>(Degree and Specialization)</i>			17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
BS, Mechanical Engineering, 1990			Professional Engineer, Florida, Civil		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>					
Bill has more than 20 years experience in Engineering Design, HVAC, Contractor, and Operations and Maintenance Engineering. He is responsible for the overall management of HVAC engineering projects. He manages the day-to-day HVAC engineering design of these projects, and is responsible for quality control and standardization of engineering concepts. He maintains full responsibility for all design, production of contract documents, contract administration and engineering discipline communication.					
19. RELEVANT PROJECTS					
a.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	The Cleveland Clinic Foundation, Biological Resources Building, Cleveland, OH			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2004	2004
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Senior Mechanical Engineer. HDR provided full architect/engineering design services for the Biological Resources Building, a 67,235 SF vivarium and lab building expansion. Vivarium includes animal holding areas for a variety of species, cage wash, procedure rooms, and surgical suite. Critical systems are provided with redundancy and failure modes of operation in compliance with Owner guidelines. A 67,000 SF building expansion that has 40,000 SF of vivarium space which includes animal holding areas for a variety of species, cage wash, procedure rooms, and a surgical suite. The Biological Resources Building is a three-story addition on top of an existing three-story research</p>					
b.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Georgia State University Parker H. Petit Science Center, Atlanta, GA			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Senior Mechanical Engineer. A ten-story 306,000 SF tower, the Center is designed for multidisciplinary science teaching and research and contains laboratories, a 100-seat auditorium as well as offices and classrooms. The facility houses one of only a few university-based Biosafety Level 4 labs as well as a "visualization wall" a large array of computer screens used to view vast amounts of data.</p>					
c.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	NAVFAC Southeast, Shaw Air Force Base, Medical Clinic Replacement, Sumter, South Carolina			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Senior Mechanical Engineer. The replacement 115,581 SF Outpatient Medical Clinic includes a 2,227 SF Ambulance Shelter as well as provides medical, ancillary, administrative and support functions.</p>					
d.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	Tulane Regional Biocontainment Laboratory, Covington, LA			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2009	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Senior Mechanical Engineer. A 40,000 SF biocontainment laboratory funded by the NIH and focused on developing treatments, vaccines and diagnostics for emerging infectious diseases with BSL-3 non-human primate and small animal holding spaces; surgical and necropsy suites; dedicated procedure rooms; BSL-3 laboratory space; office and administration spaces; conference and training rooms; and, a cage processing facility.</p>					
e.	(1) TITLE AND LOCATION <i>(City and State)</i>			(2) YEAR COMPLETED	
	State of Maryland, Maryland New Public Health Laboratory, Baltimore, MD			PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
				2011	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE			<input checked="" type="checkbox"/> Check if project performed with current firm	
<p>Senior Mechanical Engineer. This 200,000 SF laboratory building uses public health as a major catalyst for urban revitalization, bringing jobs to East Baltimore while providing state-of-the-art laboratories for testing, consulting, and regulatory support of infectious disease, epidemiology, environmental, and regulatory public health support.</p>					

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 01
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21. TITLE AND LOCATION <i>(City and State)</i> Broward County Aviation Department, General Engineering Consultant, Ft. Lauderdale, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> Varies by assignment

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Broward County Aviation Department	b. POINT OF CONTACT NAME Marc Gambrill, PE	c. POINT OF CONTACT TELEPHONE NUMBER (954) 259-2343
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

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

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

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

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

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

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

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

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

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	HDR	Ft. Lauderdale, FL	Prime

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 02
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21. TITLE AND LOCATION <i>(City and State)</i> Ft. Lauderdale - Hollywood International Airport, Terminal 4 Apron Civil Works, Ft. Lauderdale, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2011

23. PROJECT OWNER'S INFORMATION

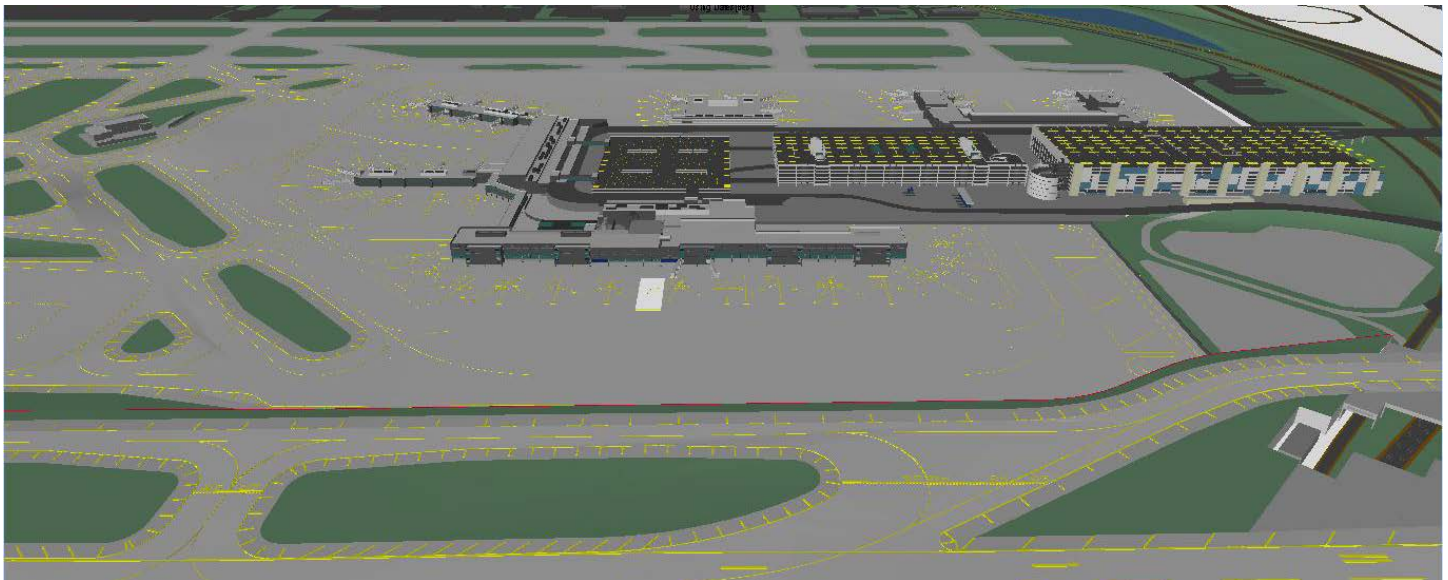
a. PROJECT OWNER Broward County Aviation Department	b. POINT OF CONTACT NAME Marc Gambrell, PE	c. POINT OF CONTACT TELEPHONE NUMBER (954) 259-2343
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The Terminal 4 (T-4) Apron Civil Works project is part of the overall Airport Expansion Program (AEP) currently underway at the Fort Lauderdale-Hollywood International Airport. This project will modify the existing airport terminal utility infrastructure and required to facilitate the Terminal 4 Gate Replacement Project. The project will require the rehabilitation of existing 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. HDR also utilized 4D Visualization to provide a real life look at the project impacts and as a tool to refine the overall construction phasing plans with all affected stake holders.

HDR provided preliminary engineering and final design services and is currently developing construction bid documents for the project. In addition, HDR is providing planning and design services for environmental restoration of contaminated sites in Project construction footprint. HDR was responsible for the design of the stormwater management system and obtaining both and Environmental 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.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name HDR	(2) FIRM LOCATION <i>(City and State)</i> Ft. Lauderdale, FL	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 03
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21. TITLE AND LOCATION <i>(City and State)</i> Ft. Lauderdale - Hollywood International Airport, Curbside Canopy & Soffit Replacement, Ft. Lauderdale, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2011

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Broward County Aviation Department	b. POINT OF CONTACT NAME Marc Gambrell, PE	c. POINT OF CONTACT TELEPHONE NUMBER (954) 259-2343
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

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



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name HDR	(2) FIRM LOCATION <i>(City and State)</i> Ft. Lauderdale, FL	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 04
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21. TITLE AND LOCATION <i>(City and State)</i> Sky Harbor Airport, On-Call Sustainability Consultant, Phoenix, Arizona	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Phoenix Aviation Department	b. POINT OF CONTACT NAME Cynthia Parker	c. POINT OF CONTACT TELEPHONE NUMBER (602) 273-2730
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

HDR is working for the City of Phoenix providing on-call services to support sustainability efforts at Sky Harbor Airport. Recently, HDR provided LEED AP training for airport and city personnel. HDR conducted a series of workshops and presentations, and approximately 30 employees received on-site training and manuals relating to LEED requirements, credits and calculations for site development, water, energy, materials and indoor environmental quality. Another task order has HDR assisting City personnel with the LEED Existing Buildings Operations and Maintenance certification process.

HDR will provide services to prepare the GHG baseline Inventory and prepare the airport sustainability plan. Services will be provided to develop a sustainability vision statement and a Greenhouse Gas Inventory utilizing the carbon accounting software, Mosaic to account for all direct and indirect emissions sources, including employee commute survey data. HDR will facilitate collaborative meetings to determine reduction targets and other goals related to energy, waste, noise air quality and water. Tasks include establishing sustainability strategies and prioritizing the strategies based on return on investment analyses.

Strategies are focused on reductions in energy, water and waste, increased use of renewable energy and LEED certification. These strategies will be prioritized using a carbon abatement cost curve or a sustainable return on investment, that uses the full value of a project and assigns monetary values to economic, social and environmental costs and benefit. HDR will develop an implementation, monitoring and reporting plan that includes stakeholder and partner (tenant and airlines) involvement, budgets and funding sources. HDR will package all information into a final Sustainability Plan.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name HDR	(2) FIRM LOCATION <i>(City and State)</i> Phoenix, AR	(3) ROLE Sustainable Consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 05
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21. TITLE AND LOCATION <i>(City and State)</i> City of Hayward, Climate Action Plan, Hayward, California	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Hayward	b. POINT OF CONTACT NAME Mr. Erik Pearson, AICP, Senior Planner	c. POINT OF CONTACT TELEPHONE NUMBER (510) 583-4210

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

The City of Hayward and its citizens recognized that climate change poses a potential threat to the community and to the larger environment. The City and its citizens also recognized that activities taking place within the City result in the release of the heat-trapping global warming gasses that contribute to climate change. Hayward wanted to take a stance against climate change by reducing the amount of greenhouse gas (GHG) emissions from activities taking place within the City.

Hayward made this intention clear in 2005, when the Mayor of Hayward signed the U.S. Conference of Mayors Climate Protection Agreement and, in June 2006, the City joined ten other local governments in Alameda County participating in the Alameda County Climate Protection Project (ACPP). By joining ACCPP, Hayward embarked on an ongoing coordinated effort to reduce the emission of gasses that cause global warming. ACCPP was launched by the Alameda County Waste Management Authority & Recycling Board (StopWaste.Org) in partnership with the Alameda County Conference of Mayors and ICLEI Local Governments for Sustainability (ICLEI).

Hayward's Climate Action Plan (CAP) was adopted by the City Council on July 28, 2009. The purpose of the CAP is to make Hayward a more environmentally and socially sustainable community by:

- Reducing Greenhouse Gas emissions - the primary contributor to global warming
- Decreasing the community's dependence on non-renewable resources
- Increasing Hayward's potential for "green" economic development
- Enhancing the health of all who live and work in Hayward

The Climate Action Plan (CAP) provides a roadmap for achieving a measurable reduction in GHG emissions; so adopting the CAP will be a discernible step towards emissions reductions. The CAP recommends GHG emissions targets that will align Hayward's reduction targets with those of the State of California and presents a number of strategies that will make it possible for the City to meet the recommended targets. The CAP also suggests best practices for implementing the Plan and makes recommendations for measuring progress.

The City aims to reduce GHG emissions by 12.5% below 2005 levels by 2020. If Hayward meets this target, the City will have prevented 154,642 metric tons of CO₂e from being emitted into the atmosphere.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a	(1) Firm Name HDR	(2) FIRM LOCATION <i>(City and State)</i> Sacramento, CA	(3) ROLE Sustainable Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 06
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21. TITLE AND LOCATION <i>(City and State)</i> City of Corpus Christi, Energy Efficiency / Conservation Strategy and Sustainability Plan, Corpus Christi, Texas	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Corpus	b. POINT OF CONTACT NAME Oscar Martinez	c. POINT OF CONTACT TELEPHONE NUMBER 361-826-3189

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

In 2009, Corpus Christi, Texas selected HDR to develop a citywide Integrated Community Sustainability Plan. This plan builds on HDR's Integrated Community Planning approach, which holds that the key to community-wide sustainability lies as much in the efficient integration of multiple factors as in the optimization of any one factor. Towards this end, HDR has defined thirteen constituent elements as the basis for any community: 1) Energy 2) Water 3) Air 4) Food 5) Natural Resources 6) Waste 7) Buildings & Facilities 8) Mobility 9) Economy 10) Human Services 11) Knowledge 12) Culture 13) Land Use

For each element, HDR developed a list of potential metrics; these were refined to between five and twenty metrics per element, with baseline conditions for at least one year between 2007 and 2009. Where available, data for the metrics for the period 1990 - 2010 were also tracked. The HDR team included staff from seven offices, with each element assigned to an expert technical advisor. Throughout the project, the team would meet for multi-day working sessions, designed to encourage discussion, cross fertilization of ideas, and a full understanding of the project by all participants.

Baselines were developed for comparable communities selected for geographic, demographic, climatic or political similarity to Corpus Christi. Working with a Steering Committee of community leaders and stakeholders, the HDR team is using the baselines and comparisons to develop goals for each metric, and strategies for their accomplishment, with particular focus on those strategies that accomplish goals across multiple elements. The City's GIS is being used as a basis upon which to spatially overlay multiple goals and strategies.

Final outcomes of the project will include a two-dimensional Sustainability Plan for the City. Key areas will be depicted in greater detail as three-dimensional designs. Modifications to the City's land development regulations will be recommended to define the "genetic" changes necessary to achieve the recommendations. Finally, the team will develop an Implementation Matrix detailing specific policies, programs, plans and projects necessary to achieve the desired outcomes.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) Firm Name HDR	(2) FIRM LOCATION <i>(City and State)</i> Texas	(3) ROLE Sustainable Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 07
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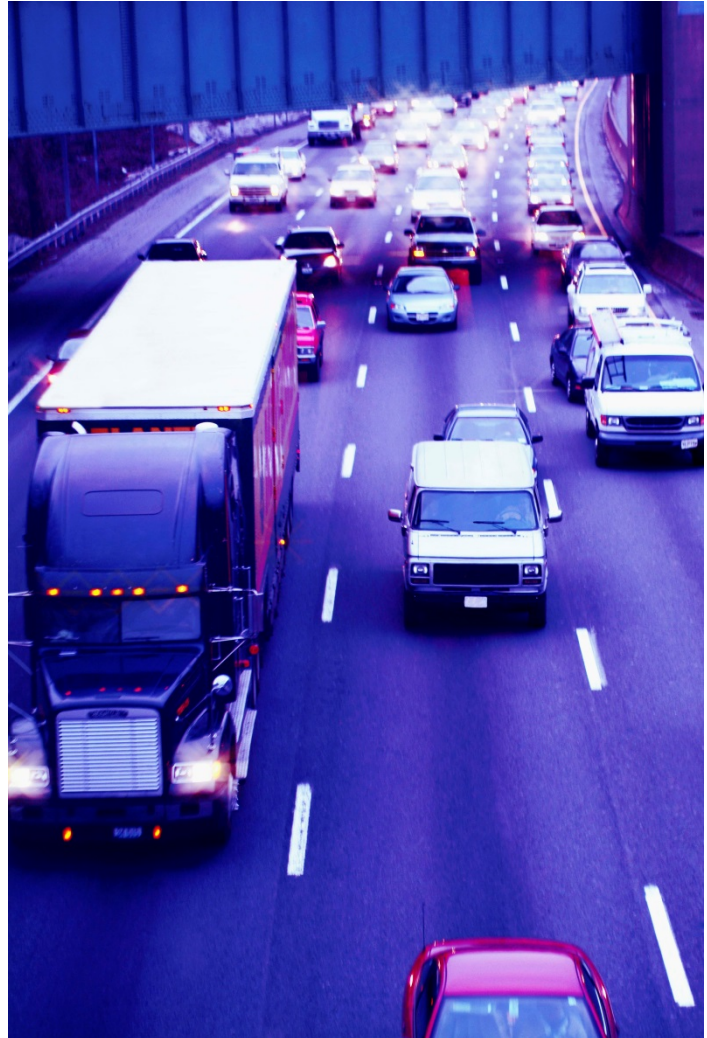
21. TITLE AND LOCATION <i>(City and State)</i> Volusia County International, Speedway Corridor Sustainability Plan, Volusia County, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Office of Sustainability and Energy Management	b. POINT OF CONTACT NAME Michelle Leigh, Sustainability Manager	c. POINT OF CONTACT TELEPHONE NUMBER (386) 717-6265
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The International Speedway Boulevard is the main east-west corridor leading into the City of Daytona Beach, Florida and provides access to the Daytona International Airport, Embry Riddle Aeronautical University and the Daytona Speedway which hosts the NASCAR Daytona 500. The HDR team was selected to provide professional consulting services for the International Speedway Green Development Plan for Volusia County, Florida. The plan consists of identification of renewable energy project opportunities at the Daytona International Airport, determination of commercial recycling, development of 'green' design standards, sustainable transportation options, prioritization of strategies, and identification of public private partnership and federal grant opportunities to implement the plan. In addition, the plan identified multi-modal station criteria and provided preliminary site location evaluation for a planned multi-modal hub to serve as the interface between future commuter rail and bus rapid transit that will serve the transportation needs of the corridor.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	HDR	Orlando, FL	Sustainable Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 08
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21. TITLE AND LOCATION <i>(City and State)</i> Air Force Center for Engineering and the Environment (AFCEE), Sustainable Design Training, Nationwide	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2009	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER AFCEE	b. POINT OF CONTACT NAME Paula Shaw	c. POINT OF CONTACT TELEPHONE NUMBER 210-845-3398
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

HDR Sustainable Design Solutions was selected by the Air Force Center for Engineering and the Environment to develop and deliver sustainable design/LEED training workshops. HDR had conducted 16 workshops and trained 950 Air Force, Air National Guard, Army, Navy, and Corps of Engineers personnel, as well as numerous private contractors.

These workshops were designed to train Air Force personnel on the requirements of the Air Force sustainable Design and Development (SDD) Policy Memorandum, and all other Federal, DoD, and Air Force policies and mandates pertinent to Sustainable Development.

The workshops also provided a detailed review of the USGBC's LEED for New Construction Rating System, sustainable internet tools and resources, and activities and sample exams that helped workshop attendees prepare for the LEED AP examination. The 2.5 day workshop included the following topics and activities:

- Overview of Sustainability and the USGBC
- Review of AF Policy and Federal Requirements
- Review of LEED for New Construction Prerequisites and Credits
- Banner Bank Building LEED Platinum
- Documentary Video
- Tour and 'Lessons Learned' Discussion of a Local LEED Certified Building
- Team activity using an HDR LEED Certified Project Example
- Review of Air Force and Sustainable Design Web Resources
- Review of LEED AP Exam Study Resources
- Completion of Several Sample Exams



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name HDR	(2) FIRM LOCATION <i>(City and State)</i> Omaha	(3) ROLE Sustainable Consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 09
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21. TITLE AND LOCATION <i>(City and State)</i> Greater Orlando Aviation Authority, Transportation Planning Consulting Services, Orlando, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2016	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Greater Orlando Aviation Authority	b. POINT OF CONTACT NAME Brad Friel, AICP	c. POINT OF CONTACT TELEPHONE NUMBER (407) 825-3139
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

- | |
|---|
| <p>Services Provided</p> <ul style="list-style-type: none"> • Annual Traffic Counts • Bear Road Conceptual Alignment Alternatives • Development Review • Model Update and White Paper • Cargo Road/ Hangar Blvd. Traffic Study • Return Ramp Closure • Cargo Road/ Hangar Blvd. Signal Warrant Analysis • Cargo Road/ Casa Verde Rd. Signal Design • OIA Sub-area Model • OIA Intermodal Development • Public Agency Technical Support • Rental Car Planning Book • Pre-DRI Issues • South Terminal Traffic Analysis • Roadway Planning Book • Airport Route Signage • EmployeeTDM Survey • North & South Terminal Re-evaluation |
|---|

HDR has served the GOAA since 1995 as the primary Transportation Planning Consultant. During the past Thirteen (13) years and two (2) General Services contracts, HDR has served as an extension of staff, addressing on-site and off-site transportation issues, working with other GOAA consultants, and providing coordination among the numerous local governments and agencies that participate in their decision-making process. Specific projects include:



Return Ramp Closure. Develop engineering plans for temporary closures of Terminals A and B return ramps.

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

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

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

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

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name HDR Engineering, Inc.	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, FL	(3) ROLE Prime
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 10
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21. TITLE AND LOCATION <i>(City and State)</i> Master Planning for Alaska Airports, Alaska	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Alaska Department of Transportation and Public Facilities	b. POINT OF CONTACT NAME Judy Chapman, Transportation Planner	c. POINT OF CONTACT TELEPHONE NUMBER (907) 269-0519
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

In rugged areas of Alaska, airports are lifelines to the rest of the world. Thirty percent of Alaska's citizens have no access to the road system and rely on air as their primary transportation. We provide master planning and design services for many of the 264 airports owned by the Alaska Department of Transportation and Public Facilities.

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



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name HDR Engineering, Inc.	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, FL	(3) ROLE Prime
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G. KEY PERSONNEL PARTICIPATION IN EXAMPLE PROJECTS

26. NAMES OF KEY PERSONNEL (From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)	28. EXAMPLE PROJECTS LISTED IN SECTION F (Fill in "Example Projects Key" section below before completing table. Place "X" under project key number for participation in same or similar role.)									
		1	2	3	4	5	6	7	8	9	10
Chuck Sinclair	Project Principal	X	X	X							
John Neff	PM - Airport Operations	X	X	X							
Melanie Fowle	PM - Local Coordination	X	X	X							
Jeannie Renne-Malone	PM - Sustainability				X	X	X	X	X		X
Michaela Wittmann	Quality Control						X		X		
Robert Phinney	Sustainable Design Guidelines										
Christopher Behr	Economist										
Michael McMahon	Climate Impacts Assessment										
Steven Tozer	Architecture Task Manager	X	X	X							
Timothy Fish	Aviation Planning Lead	X	X	X						X	
Kirk Dunbar	Air Emissions										
Jason McGlashan	Surface Transportation										
Timothy Casey	Noise Evaluation				X						
Michelle Diller	Water Quality & Conservation Stormwater										
Brenda Clark	Solid Waste	X									
Matthew Beckingham	Commissioning										
Debra Hempel	Public Outreach										
Robb Kirkman	GIS Consultant										
Mark O'Grady	Electrical Engineering										
Bill Zavatkay	M.E.P										

29. EXAMPLE PROJECTS KEY

No	Title of Example Project (from Section F)	No	Title of Example Project (from Section F)
1	Broward County Aviation Department, General Engineering Consultant, Ft. Lauderdale, Florida	6	City of Corpus Christi, Energy Efficiency / Conservation Strategy and Sustainability Plan, Corpus Christi, Texas
2	Ft. Lauderdale - Hollywood International Airport, Terminal 4 Apron Civil Works, Ft. Lauderdale, Florida	7	Volusia County International, Speedway Corridor Sustainability Plan, Volusia County, Florida
3	Ft. Lauderdale - Hollywood International Airport, Curbside Canopy & Soffit Replacement, Ft. Lauderdale, Florida	8	Air Force Center for Engineering and the Environment, Sustainable Design Training, Nationwide
4	Sky Harbor Airport, On-Call Sustainability Consultant, Phoenix, Arizona	9	Greater Orlando Aviation Authority, Transportation Planning Consulting Services, Orlando, Florida
5	City of Hayward, Climate Action Plan, Hayward, California	10	Master Planning for Alaska Airports, Alaska

H. ADDITIONAL INFORMATION

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

See qualifications listed in Tab 2.

I. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

31. SIGNATURE



32. DATE

03/18/2014

33. NAME AND TITLE

Charles T. Sinclair, PE, Senior Vice President

ARCHITECT-ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

946-11333

PART II – GENERAL QUALIFICATIONS

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


2a. FIRM (or branch office) NAME HDR Engineering, Inc.			3. YEAR ESTABLISHED 2009	4. DUNS NUMBER Pending
2b. STREET 3250 West Commercial Blvd, Suite 100			5. OWNERSHIP a. TYPE Private Corporation	
2c. CITY Ft. Lauderdale	2d. STATE FL	2e. ZIP CODE 33309	b. SMALL BUSINESS STATUS Large Business	
6a. POINT OF CONTACT NAME AND TITLE Chuck Sinclair, Area Manager			6b. TELEPHONE NUMBER 305.728.7400	
6c. E-MAIL ADDRESS Chuck.Sinclair@hdrinc.com			HDR, Inc.	
8a. FORMER FIRM NAME(S) (if any) Henningson, Durham & Richardson, Inc. 1951 Henningson Engineering Company, Inc. 1930 Henningson Engineering Company 1917			8b. YR. ESTABLISHED 1985	8c. DUNS NUMBER 06-866-8805

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function code	b. Discipline	c. No. of employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
02	Administrative	820	4	A04	Air Pollution Control	3
08	CADD Technician	571	3	A06	Airports; Terminals & Hangers; Freight Handling	7
12	Civil Engineer	676	5	B02	Bridges	10
15	Construction Inspector	238	8	C15	Construction Management	10
16	Construction Manager	216	3	D01	Dams; (Concrete; Arch)	5
39	Landscape Architect	38	1	D02	Dams; (Earth; Rock); Dikes; Levees	8
44	Oceanographer	2	1	E09	Enviro. Impact Studies, Assessments, or Statements	10
47	Planner: Urban/Regional	221	1	E12	Environmental Remediation	10
57	Structural Engineer	254	1	H07	Highways: Streets; Airfield Paving; Parking Lots	10
58	Technician/Analyst	1,156	8	I01	Industrial Buildings; Manufacturing Plants	5
60	Transportation Engineer	745	15	P06	Planning (Site, Installation, and Project)	8
62	Water Resources Engineer	240	1	P12	Power Generation, Transmission, Distribution	10
99	Public Relations	450	1	R03	Railroad: Rapid Transit	10
				R11	Rivers: Canals; Waterways; Flood Control	7
				S04	Sewage Collection; Treatment and Disposal	10
				S07	Solid Wastes; Incineration; Landfill	9
				S10	Surveying; Platting; Mapping; Flood Plain Studies	6
				S13	Storm Water Handling & Facilities	7
				T02	Testing & Inspection Services	7
				T03	Traffic & Transportation Engineering	10
				W02	Water Resources; Hydrology; Ground Water	9
				W03	Water Supply; Treatment and Distribution	10
	Other Employees	2951				
	Total	8578	52			

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

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	b. DATE 02/12/2014
c. NAME AND TITLE Charles T. Sinclair, PE, Senior Vice President	

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Ted Baldwin	Project Advisor	A. TOTAL	B. WITH CURRENT FIRM
		37	30
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
Harris Miller Miller & Hanson, Inc. <i>(Burlington, MA)</i>			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
MCRP, Harvard University, 1977 BS, Engineering, Cornell University, 1975		N/A	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			
Mr. Baldwin specializes in airport noise analysis and abatement planning. Over the past 30 years, he has assisted more than 80 airports across the U.S. and overseas on Part 150 noise compatibility studies, Part 161 use restriction studies, state and federal environmental impact assessments, noise elements of airport master plan studies, the design and use of permanent noise monitoring systems, noise measurement and modeling, expert testimony, and other specialized noise studies.			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Fort Lauderdale Executive Airport (FXE) Comprehensive Noise Consulting Services, Fort Lauderdale, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
HMMH has provided comprehensive noise consulting services to the City of Fort Lauderdale since 1984, including: The airport's original 1986 Part 150 Study and 1996 and 2002 Updates; noise elements of the 1986 and 1996 Master Plan Updates; 2005 contour updates and use restriction analysis, monitoring system design, installation, and support; EAs for initial establishment of the "I95" departure procedure and extension of the hours of the I-95 turn; and compatible land use planning. Cost: \$750,000+. Project Manager.			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Comprehensive Acoustical Consulting at Fort Lauderdale Airport, Fort Lauderdale, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
HMMH provides comprehensive airport noise-related consulting services to the Broward County Aviation Department (BCAD), primarily related to Fort Lauderdale – Hollywood International Airport (FLL). The BCAD has retained HMMH to provide these services in an uninterrupted fashion, since 1990. HMMH assistance to the BCAD has covered the full spectrum of noise-related projects that an airport may incorporate in a noise compatibility program, and into airport planning, design, and development efforts. Cost: \$1.8M. Project Manager.			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Naples Municipal Airport (APF) Part 150 Updates, Comprehensive Acoustical Consulting, Naples, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
HMMH has provided a comprehensive range of noise consulting services for APF since 1995, including three Part 150 studies; a Part 161 study leading to the first and only FAA approval of an airport use restriction under the program (for a ban on Stage 2 aircraft operations); noise contour updates; and noise abatement departure procedure design and implementation. Cost: \$1 million+. Principal-In-Charge.			
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Palm Beach International Airport (PBI) Comprehensive Noise Consulting Services, Palm Beach, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
HMMH has provided comprehensive airport noise-related consulting services to Palm Beach County since 1991, including: 1992/3 and 2002 Part 150 Updates; noise elements of an Airport Master Plan Update; noise elements of a Florida Development of Regional Impact Study and EIS for a runway extension; design, specification, and installation of a comprehensive monitoring system; residential sound insulation program design and management; noise office staff training; preparation of annual noise contours; expert support for litigation; nationally recognized noise abatement departure profile analyses. Cost: \$1 million+. Project Manager.			
e.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Nashville International Airport Part 150 Noise Exposure Map Update, Nashville, TN	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
The HMMH study had three primary purposes: (1) to prepare updated NEMs for existing and five-year forecast conditions, (2) to review the implementation and effectiveness of the presently approved NCP, and (3) to use the updated NEMs and the results of the NCP review to assess the potential need to revise the NCP. Cost: \$345,000. Project Manager.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Stephen Barrett, LEED AP	Renewable Energy Lead	A. TOTAL	B. WITH CURRENT FIRM
		19	5
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
Harris Miller Miller & Hanson, Inc. <i>(Burlington, MA)</i>			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
MA, Environmental Science and Policy, University of Virginia, Charlottesville, VA 1995		LEED Accredited Professional	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			
Mr. Stephen Barrett has over 20 years of professional experience in environmental and regulatory consulting and project management. Over the past 10 years, Mr. Barrett has been active in renewable energy and sustainable development initiatives, including in the siting, design and financial analyses of wind and solar projects, sustainability planning and LEED analysis, and the permitting of energy, infrastructure, and real estate projects.			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Federal Aviation Administration National Solar Guidance for Airports, Washington, D.C.	2010	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	HMMH was responsible for writing and producing the solar guide for the FAA to meet the regulatory and information needs of FAA personnel and airport sponsors in evaluating airport solar projects. It addresses a wide range of topics including solar technology, electric grid infrastructure, FAA safety regulations, and financing incentives. Our staff met with airports, toured their facilities and discussed the projects to understand the technical and financial considerations for each project. Cost: \$177,000. Project Manager and Co-author.		
b.	2012 Hanscom Field Environmental Status and Planning Report Bedford, MA	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	HMMH is the prime contractor for Massport's 2012 Hanscom Field Environmental Status and Planning Report (ESPR), conducted in compliance with the Massachusetts Environmental Policy Act (MEPA). Two of the most important environmental issues addressed in the ESPR are noise and air quality. Cost: \$220,000. Project Manager		
c.	Solar Siting and Feasibility Study, Palm Beach International Airport, FL	2010	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	HMMH assisted the County with completing a solar siting and feasibility study. The purpose of the study was to provide the DOA with a comprehensive assessment of the technical and financial opportunities of constructing a solar photovoltaic system on Airport property. The feasibility study consisted of three parts: siting, technical, and financial. Preliminary design and cost estimates were prepared for three locations identified during the siting study. Cost: \$30,500. Project Manager.		
d.	ACRP Project Report "Renewable Energy as an Airport Revenue Source," Transportation Research Board, Washington DC	2014	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	HMMH is leading a team of consultants to evaluate the potential for renewable energy to provide alternative revenue and cost savings through the experience of existing projects. The study is looking at solar, wind, geothermal, biomass, waste-to-energy, fuel cells, and hydrokinetics. An evaluation tool will be developed to help airports of all sizes consider if renewable energy might be an opportunity worth exploring based on location, size, and available airport property. Cost: \$274,000. Project Manager.		
e.	Solar Glare and Radar Interference Study, Indianapolis, IN	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Assisted the Authority with siting and impact assessment of locating two large solar projects on airport land. Prepared a technical memorandum that reviewed solar PV technology and its potential for impacts including a review of the experiences of other airports where solar PV is presently operating. Conducted a detailed analysis of the potential for impact from the proposed solar PV project based on the project's location, its proximity to sensitive airport receptors and existing and future infrastructure, the seasonal track of the sun and potential for solar exposure, and air traffic patterns. The first 10 MW project was commissioned in the fall of 2013. Cost: \$25,000. Project Manager.		

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 01
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21. TITLE AND LOCATION <i>(City and State)</i> ACRP Report "Renewable Energy as an Airport Revenue Sources," Washington DC	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2013	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Transportation Research Board, Airport Cooperative Research Program	b. POINT OF CONTACT NAME Joseph Navarrete	c. POINT OF CONTACT TELEPHONE NUMBER (202) 334-1649
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Many airports lack sufficient and reliable revenues to fulfill their expansion and modernization plans. While delivery of aviation services is the basic and essential focus of airports, the potential is growing for supplemental airport revenues from renewable energy systems.

Experience shows that renewable energy projects on airport land can be successful and provide a net financial benefit to the airport as well as the energy company. Where successful partnerships have been established, it has usually resulted from two entrepreneurs recognizing the mutual benefits and persevering to blaze an unconventional path. In order to realize the possibility of more widespread partnerships, the airport community needs unbiased information about the economic benefits and risks associated with airport renewable energy projects. The proposed development of a Guidebook and Evaluation Tool for use by airports will systematically distill the experience of existing airport renewable energy projects and explore potential opportunities for investment.

HMMH is leading a team of consultants to evaluate the potential for renewable energy to provide alternative revenue and cost savings through the experience of existing projects. The study will look at solar, wind, geothermal, biomass, waste-to-energy, fuel cells, and hydrokinetics. We will produce a Guidebook which summarizes the findings and reports the financial benefits from specific projects through case summaries. HMMH will also produce an evaluation tool to help airports of all sizes consider if renewable energy might be an opportunity worth exploring based on location, size, and available airport property.

Project cost: \$400,000



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name Harris Miller Miller & Hanson Inc.	(2) FIRM LOCATION <i>(City and State)</i> Burlington, MA	(3) ROLE Prime Consultant
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 02
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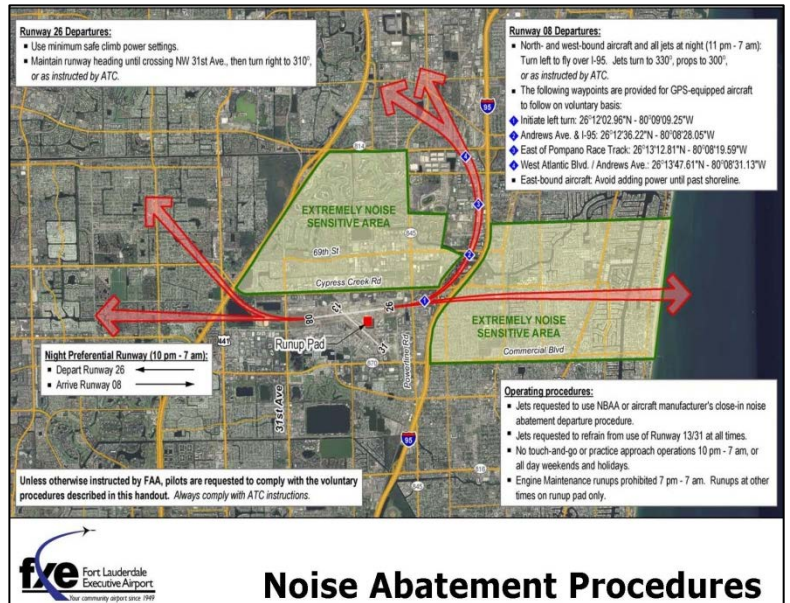
21. TITLE AND LOCATION <i>(City and State)</i> On-Call Aviation Noise Consulting, Fort Lauderdale Executive Airport, Fort Lauderdale, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER City of Fort Lauderdale	b. POINT OF CONTACT NAME Mark Cervasio	c. POINT OF CONTACT TELEPHONE NUMBER (954) 828-4975

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

HMMH has provided noise consulting services to the City of Fort Lauderdale, for Executive Airport (FXE) since 1984, including the following principal assignments:

- Noise elements of original 1986 Part 150 Study
- Noise elements of the 1986 Master Plan Update
- 1996 Part 150 and Master Plan Updates
- 2002 Part 150 and Master Plan Updates
- 2005 noise contour updates and use restriction analysis
- Comprehensive review of the noise program implementation (2008)
- Recommendation and development of improved communication, monitoring, and reporting mechanisms (2009)
- Environmental Assessment for extending the hours of a noise abatement flight track, and establishing a Standard Instrument Departure (2009)
- Noise monitoring system design, installation, and support services, including specification of new monitor installation in 2012
- Development of new pilot outreach mechanisms (2011-13)



The City of Fort Lauderdale considers airport noise abatement to be a continuous, high-priority process. The airport commits a high percentage of staff and financial resources to the process. As an example of this commitment, the City has reimbursed FAA for night air traffic control tower staffing, to permit 24-hour implementation of noise abatement procedures.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) Firm Name Harris Miller Miller & Hanson Inc.	(2) FIRM LOCATION <i>(City and State)</i> Burlington, MA	(3) ROLE Prime Consultant

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 03
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21. TITLE AND LOCATION <i>(City and State)</i> 2012 Hanscom Field Environmental Status and Planning Report Bedford, Massachusetts	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2014	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Massachusetts Port Authority	b. POINT OF CONTACT NAME Tom Ennis	c. POINT OF CONTACT TELEPHONE NUMBER (617) 568-3546
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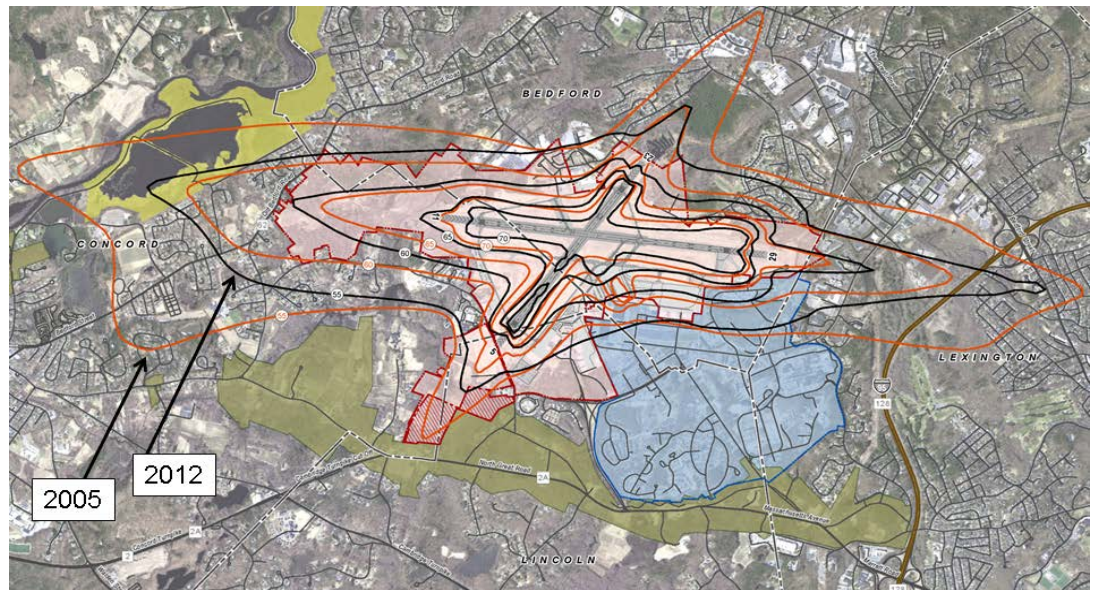
24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

HMMH is the prime contractor for Massport's 2012 Hanscom Field Environmental Status and Planning Report (ESPR), conducted in compliance with the Massachusetts Environmental Policy Act (MEPA).

The 2012 ESPR compares current environmental conditions at Hanscom Field with historical data from the 2000 and 2005 ESPRs. Additionally, the 2012 ESPR presents future scenarios for evaluating potential cumulative environmental effects based on forecast conditions of airport activity levels for 2020 and 2030. The information presented in the ESPR provides a planning tool for assessing and reviewing changes at Hanscom Field and its environs over time.

Two of the most important environmental issues addressed in the ESPR are noise and air quality. For both topics, HMMH worked with Hanscom to collect baseline aircraft operations data for 2012 and forecasted operations for the planning years of 2020 and 2030. HMMH then modeled noise (using INM 7.0c) and air quality (using EDMS v5.1.4.1) to generate noise contours for the 65 and 55 DNL and generate emissions levels for criteria air pollutants. These data could then be compared to past levels (e.g., 2000 and 2005) to show trends in actual emissions as well as to compare past and future levels. The air quality study also used MOBILE6.2 to evaluate emissions from ground traffic.

The results showed that noise levels from aircraft have decreased in 2012 compared with 2005 primarily due to a decrease in operations and technological advances toward quieter aircraft. It was also demonstrated that changes in touch-and-go patterns have decreased noise over Minute Man National Park by 22% since 2009. Air quality has also improved due to more stringent regulations on a variety of emission sources.



Project Cost: \$220,000

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name Harris Miller Miller & Hanson Inc.	(2) FIRM LOCATION <i>(City and State)</i> Burlington, MA	(3) ROLE Prime Contractor
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 04
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21. TITLE AND LOCATION <i>(City and State)</i> Solar Siting and Feasibility Study, Palm Beach International Airport, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Palm Beach County Department of Airports	b. POINT OF CONTACT NAME Gary Sypek	c. POINT OF CONTACT TELEPHONE NUMBER (561) 471-7474

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

HMMH has provided comprehensive airport noise-related consulting services to the Palm Beach County Department of Airports (DOA) since 1991. Most recently, HMMH assisted the County with completing a solar siting and feasibility study. The purpose of the study was to provide the DOA with a comprehensive assessment of the technical and financial opportunities of constructing a solar photovoltaic system on Airport property.

The feasibility study consisted of three parts: siting, technical, and financial. Preliminary design and cost estimates were prepared for three locations identified during the siting study. The design included an evaluation of two solar panel manufacturers (Kyocera and SunPower), engineering considerations necessary to meet the Florida Building Code for 150 mph winds, design of inverter units, and utility interconnection specifications. The financial analysis looked at different ownership scenarios (Airport-owned vs. lease to private entity) and financial incentives (Florida Clean Energy Grant funds, tax incentives available to private companies) to improve the project economics. The study recommends that the Airport pursue cost-effective solar electricity from a nameplate 500 kW system at the main terminal either coupled with a successful grant application under the Florida Clean Energy Grant Program or through a partnership with Florida Power and Light and a long-term power purchase agreement.



Project cost: \$30,500

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) Firm Name Harris Miller Miller & Hanson Inc.	(2) FIRM LOCATION <i>(City and State)</i> Burlington, MA	(3) ROLE Subcontractor

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 05
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21. TITLE AND LOCATION <i>(City and State)</i> National Solar Guidance for Airports Federal Aviation Administration	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Federal Aviation Administration	b. POINT OF CONTACT NAME Ralph Thompson	c. POINT OF CONTACT TELEPHONE NUMBER (202) 267-8772
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Airport interest in solar energy is growing rapidly as a way to reduce airport operating costs and to demonstrate commitment to sustainable airport development. In response, the Federal Aviation Administration (FAA) has prepared "Technical Guidance for Evaluating Selected Solar Technologies on Airports" also referred to as the Solar Guide, to meet the regulatory and information needs of FAA personnel and airport sponsors in evaluating airport solar projects.

The guide is the reference for FAA technical staff who review airport solar projects, and airport sponsors that may be considering a project.

It addresses a wide range of topics including solar technology, electric grid infrastructure, FAA safety regulations, and financing incentives.

The guidance also discusses new and unforeseen issues associated with solar projects including reflectivity and communications systems interference.

It includes case studies of operating solar projects at Denver International, Fresno Yosemite International, Bakersfield's Meadows Field, and Albuquerque International Sunport.

HMMH was responsible for writing and producing the solar guide for the FAA. Our staff met with airports, toured their facilities and discussed the projects to understand the technical and financial considerations for each project. That experience provides real-world experience to the industry.



Project Cost: \$177,000

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name Harris Miller Miller & Hanson Inc.	(2) FIRM LOCATION <i>(City and State)</i> Burlington, MA	(3) ROLE Prime Contractor
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ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (If any)

PART II – GENERAL QUALIFICATIONS

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

2a. FIRM (OR BRANCH OFFICE) NAME Harris Miller Miller & Hanson Inc.			3. YEAR ESTABLISHED 1981	4. DUNS NUMBER 01-835-2641
2b. STREET 77 South Bedford Street			5. OWNERSHIP	
			a. TYPE Corporation	
2c. CITY Burlington	2d. STATE MA	2e. ZIP CODE 01803	b. SMALL BUSINESS STATUS NAICS 541330/541620 - small	
6a. POINT OF CONTACT NAME AND TITLE Mary Ellen Eagan, President			7. NAME OF FIRM (If block 2a is a branch office) N/A	
6b. TELEPHONE NUMBER (781) 229-0707		6c. E-MAIL ADDRESS megan@hmmh.com		
8a. FORMER FIRM NAME(S) (If any) Harris Miller Miller Inc.			8b. YR ESTABLISHED 1981	8c. DUNS NUMBER 01-835-2641

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
01	Acoustical Engineer	22		A01	Acoustics/Noise Abatement	6
02	Administrative	10		A04	Air Pollution Control	1
14	Computer Programmer	3		C13	Computer Facilities/Computer Services	2
29	GIS Specialist	1		E07	Energy Conversation; New Energy Sources	2
	Airport/Airspace Planning	5		E09	Environmental Impact Studies, Assessments, and Statements	6
24	Environmental Scientist	1			Program Management	1
	Air Quality Specialist	2				
	Other Employees					
	Total	44				

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

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Casey Adamson	Aviation Planner/Public Outreach	A. TOTAL	B. WITH CURRENT FIRM
		5	2

15. FIRM NAME AND LOCATION *(City and State)*
 Montgomery Consulting Group, Inc. *(Winter Park, FL)*

16. EDUCATION <i>(Degree and Specialization)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
B.S. – Geological Engineering, University of Alaska Fairbanks – College of Engineering & Mines B.S. – Geology, University of Alaska Fairbanks – College of Natural Science & Mathematics	EIT

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Ms. Adamson is an Aviation Planner with over five (5) years of experience. With extensive problem solving skills, Ms. Adamson is adept at researching, field investigating and data collection using Geographical Information System (GIS) software and integrating CAD plans.

She has experience supporting federally-funded capital development projects, and has coordinated civil and environmental projects with the Federal Aviation Administration (FAA) and the Federal Highway Administration (FHWA). She has been responsible for preparing and presenting exhibits, maps and technical documentation for Alaska’s Department of Transportation (DOT) on roadway and airport projects. She was responsible for overseeing the work of consulting firms and coordinating public outreach with various governmental agencies. Ms. Adamson is experienced in presentations and participated in public meetings as a representative of Alaska DOT on numerous projects.

Ms. Adamson has designed concepts using applied engineering principles in the field of transportation for aviation, highways/roadways, and rail infrastructure development. She currently provides technical and field support including data collection, planning and technical writing.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	DBE Support Services – Key West and Marathon Airports		
	Key West, FL	2012-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Ms. Adamson performs research, calculation and reports for DBE goals and provides outreach support.		
b.	GIS/CAD Support for Greater Orlando Aviation Authority (GOAA) - Orlando, FL		
		2012-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Ms. Adamson provided support in GOAA’s planning, engineering and IT department. Prepared, managed and updated airport facility’s plans, drawings, geospatial imagery, base maps, exhibits, utility systems and building inventory.		
c.	Turnpike Enterprise Asset Management Systems (TEAMS), Florida’s Turnpike Enterprise, FL		
		2012-Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Ms. Adamson provides spatial analysis and geo-spatial asset location from as-built plan-sets using ESRI ArcGIS software and convert to GIS data to assist in the management for TEAMS.		
d.	Master Plan Update Inventory – Orlando International Airport		
	Orlando, FL	2012-2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Ms. Adamson provided planning analysis using tables and other supporting graphics that summarizes the airport’s existing conditions for incorporation in the airport master plan study technical report.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Monty Gettys	Aviation Planner	A. TOTAL	B. WITH CURRENT FIRM
		30	19

15. FIRM NAME AND LOCATION *(City and State)*
 Montgomery Consulting Group, Inc. *(Winter Park, FL)*

16. EDUCATION <i>(Degree and Specialization)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>
B.S. - Civil Engineering, Michigan State University M.B.A. - Aviation, Embry Riddle Aeronautical University	Florida- EIT

18. OTHER PROFESSIONAL QUALIFICATIONS *(Publications, Organizations, Training, Awards, etc.)*

Ms. Gettys has extensive planning experiences including master plan and facility development, industry research, feasibility studies, forecasting, demand/capacity analyses and alternative analyses and capital improvement program development for transportation facilities. Ms. Gettys has significant recent and relevant expertise in noise compatibility planning, airport land use issues both on and off airport property, environmental assessments, public outreach, airport economic development, airport business planning and cost consulting expertise for airside and landside projects.

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	Noise Monitoring - Ft. Lauderdale-Hollywood International Airport, Broward County, FL	2013	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Ms. Gettys calibrated noise monitoring equipment at the Remote Monitoring Towers (RMTs), manually monitored noise events for system accuracy check, and analyzed field collected data to define parameters for noise monitors.		
b.	Master Plan Update Inventory – Orlando International Airport Orlando, FL	2012	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Ms. Gettys provided planning analysis using tables and other supporting graphics that summarizes the airport’s existing conditions for incorporation in the airport master plan study technical report.		
c.	Master Planning – West Side Ft. Lauderdale – Hollywood International Airport, Ft. Lauderdale, FL	2011	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Ms. Gettys provided master facility planning for the development of land uses on the west side of the airport area.		
d.	FAR Part 150 Noise and Compatibility Study Naples Municipal Airport, Naples, FL	2010	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Ms. Gettys developed land use base map and data and identified, analyzed, and evaluated compatible land use strategies.		
e.	Master Plan Update -North Perry Airport, Pembroke Pines, FL	2009	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Ms. Gettys developed comprehensive airport master plan update, including airport layout plan, economic impact analysis, leasing and development standards, business plan and update of minimum standards.		

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 01
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21. TITLE AND LOCATION <i>(City and State)</i> North Perry Airport Master Plan Update Pembroke Pines, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2006 – 2009	CONSTRUCTION <i>(If applicable)</i> N/A – Planning

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Broward County Aviation Department (BCAD)	b. POINT OF CONTACT NAME Mr. Stephen Wilson, Project Manager (now with FAA)	c. POINT OF CONTACT TELEPHONE NUMBER 901-322-8185 Email: Stephen.wilson@faa.org

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

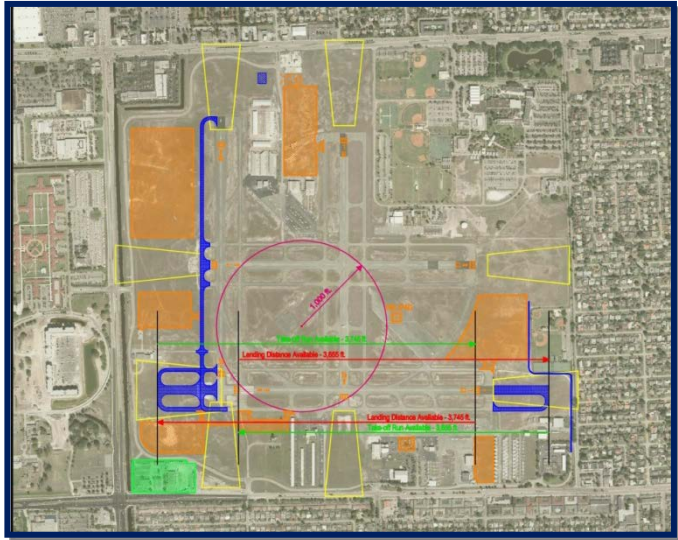
MCG was prime consultant to Broward County Aviation Department to perform a Master Plan and Airport Layout Plan Update for North Perry Airport (HWO), a general aviation airport with four active runways. MCG prepared the Master Plan Update, Airport Layout Plans set and BCAD Tools report for the airport. MCG integrated ortho-rectified aerial photography, new planimetrics and GIS data files into the development of the Airport Layout Plan set. MCG coordinated with stake-holders during the development in a significant public outreach program. The project goal was to develop a long-range plan for airport development that will yield a safe, efficient, economical, and environmentally acceptable air transportation facility for general aviation aircraft. Specific tasks for the Master Plan Update and Airport Layout Plan Set included the following:

Comprehensive analysis of current airport facilities;
Forecast of potential aviation trends;

- Demand/Capacity Analysis and facility recommendations;
- Land Use Analysis;
- Alternatives Analysis;
- Preparation of airport development recommendations;
- Aerial photogrammetric and digital mapping;
- Digital Airport Layout Plan drawing set provided in CAD and GIS;
- Utility geo-referenced data base provided in GIS;
- Economic Impact Analysis of the airport;
- Update of Airport Exhibit A Property Map;
- BCAD Business Tools including: updating Leasing Policies and Procedures, updating Minimum Standards, and development of Marketing Plan;
- Development of Emergency Management Plan;
- Updating Safety and Security Plan;
- Environmental Overview;
- Capital Improvement Program development including: short, mid, and long-term projects;
- Financial Analysis including identification of funding sources;
- Coordination with FAA, FDOT, and State Clearinghouse process; and
- Coordination with FAA, FDOT, State of Florida Clearinghouse, State of Florida Department of Community Affairs, and Broward County Regional Planning Council.

Airport Layout Plan Set development included:

<ol style="list-style-type: none"> 1. Cover Sheet 2. Existing Conditions 3. Airport Layout Plan 4. Airport Data Sheet 5. Proposed Declared Distances Runway 9R-27L 6. Quadrant Detail Plan – Northside of Airport 	<ol style="list-style-type: none"> 7. Quadrant Detail Plan – Southside of Airport 8. Airport Airspace Drawing 9. Inner Approach & Approach Profile Drawing – Runway 9L & 27R 10. Inner Approach & Approach Profile Drawing – Runway 9R & 27L 11. Inner Approach & Approach Profile Drawing – Runway 18L & 36R 12. Inner Approach & Approach Profile Drawing – Runway 18R & 36L
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25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) Firm Name Montgomery Consulting Group, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Winter Park, FL	(3) ROLE Aviation Planning, Facility Planning, CIP Development

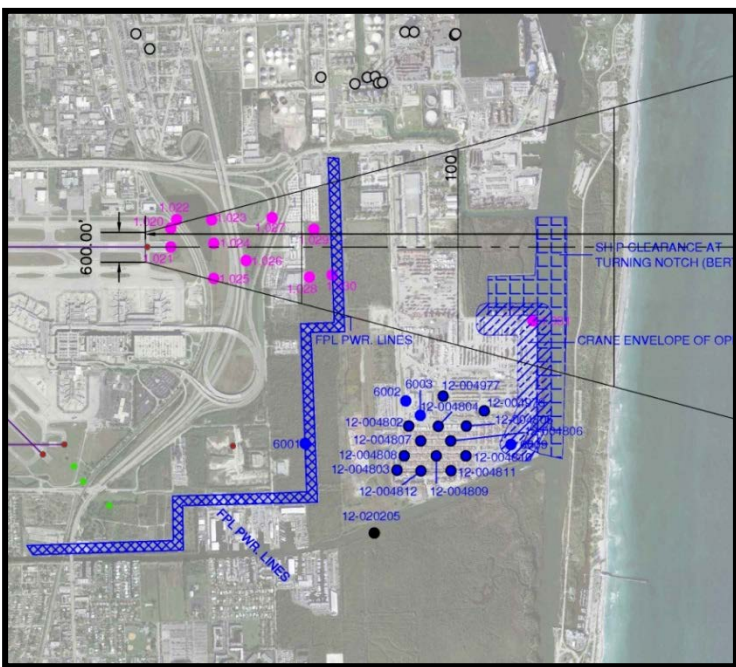
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20, EXAMPLE PROJECT KEY NUMBER 02
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21. TITLE AND LOCATION <i>(City and State)</i> One Engine Inoperative Obstacle Profiles Ft. Lauderdale – Hollywood International Airport (FLL)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011 (complete)	CONSTRUCTION <i>(If applicable)</i> N/A – Planning

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Broward County Aviation Department (BCAD)	b. POINT OF CONTACT NAME Mr. Jamie McCluskie, Director of Planning (now with Reno –Tahoe Airport Authority)	c. POINT OF CONTACT TELEPHONE NUMBER 775-328-6427 (Reno –Tahoe Airport Authority)

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

Per FAA Advisory Circular 150/5300-13, change 15, FAA currently will require One Engine Inoperative (OEI) obstacle identification surfaces (OIA) as part of airport layout plans depicting the a profile starting at the runway end and sloping upward at 62.5:1 by January 1, 2012. MCG used new FLL aerial imagery and plainimetrics, topographic mapping provided by BCAD and developed by ACA in accordance with FAA Advisory Circulars 150/5300-16, -17B, and -18B. MCG provided a One Engine Inoperative (OEI) Corridor Evaluation Study for Ft. Lauderdale-Hollywood International Airport (FLL), an air carrier airport with three active runways and one proposed runway. MCG has prepared the OEI plan and profile drawings with updated obstruction data for use by BCAD for incorporation into an updated Airport Layout Plan set.



Specific tasks performed by MCG for the OEI Corridor Evaluation Study included the following:

- Comprehensive analysis of existing known obstructions including:
 - NOAA Obstruction Chart;
 - NACO database;
 - Existing FLL ALP;
 - Prior FLL obstruction studies;
 - On-going BCAD obstruction mapping efforts; and
 - GIS spatial analysis to determine the OEI surface.
- Development of ArcGIS 3D (Z enabled) shapefile datasets of the OEI obstacle clearance surfaces for all runway ends in a shapefile format;
 - Plan & Profiles of OEI surfaces; and
 - Preparation of ArcGIS OEI obstacle clearance surface models in TIN and Raster formats

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) Firm Name	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Montgomery Consulting Group, Inc.	Winter Park, FL	Aviation Planning & GIS

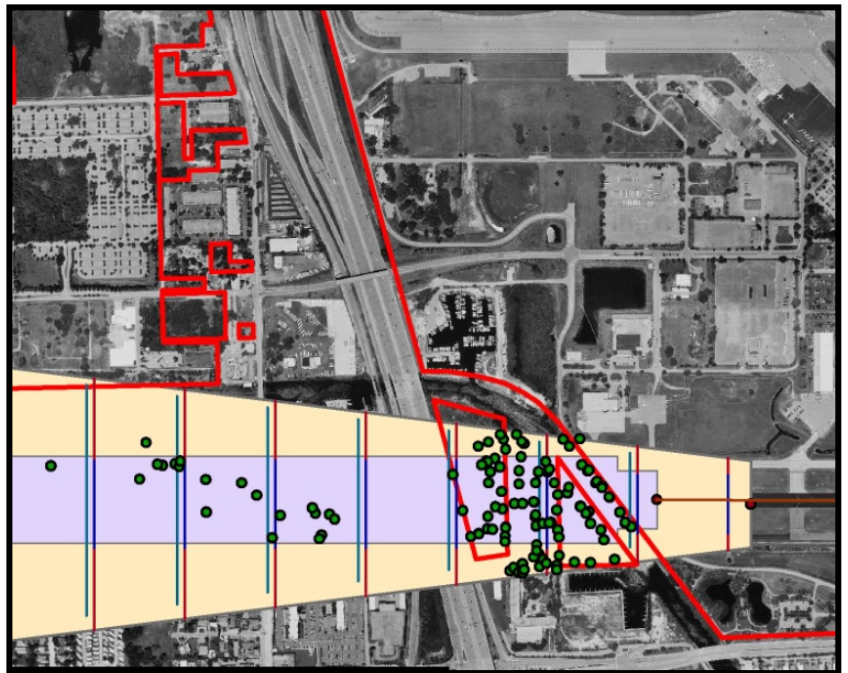
F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 03
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21. TITLE AND LOCATION <i>(City and State)</i> Identification and Analysis of Vegetative Obstructions from One Engine Inoperative Obstacle Profiles Ft. Lauderdale – Hollywood International Airport (FLL)	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011 (complete)	CONSTRUCTION <i>(If applicable)</i> N/A - Planning

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Broward County Aviation Department (BCAD)	b. POINT OF CONTACT NAME Mr. Jamie McCluskie, Director of Planning (now with Reno –Tahoe Airport Authority)	c. POINT OF CONTACT TELEPHONE NUMBER 775-328-6427 (Reno –Tahoe Airport Authority)

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

The project goal was to identify and analyze vegetative obstructions (trees) which penetrate the 62.5:1 OEI surfaces and prepare the tree mitigation reports for use by BCAD maintenance and others for tree topping efforts. MCG used new FLL aerial imagery and planimetrics, topographic mapping provided by BCAD and developed by ACA in accordance with FAA Advisory Circulars 150/5300-16, -17B, and -18B.



MCG performed a Tree Mitigation Analysis using the One Engine Inoperative (OEI) profiles for each FLL runway end. Specific tasks performed by MCG for the Tree Mitigation Analysis for the Airside Planning Support-One Engine Inoperative (OEI) Corridor Evaluation Study included the following:

- Comprehensive analysis of existing known vegetative obstructions (trees) penetrating OEI surfaces;
- GIS spatial analysis to determine obstructions located on and off airport property;
- Preparation of Tree Mitigation Recommendations including total number of trees requiring height reduction per runway end and identifying trees five feet below OEI Surface.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) Firm Name Montgomery Consulting Group, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Winter Park, FL	(3) ROLE Aviation Planning & GIS

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20, EXAMPLE PROJECT KEY NUMBER 04
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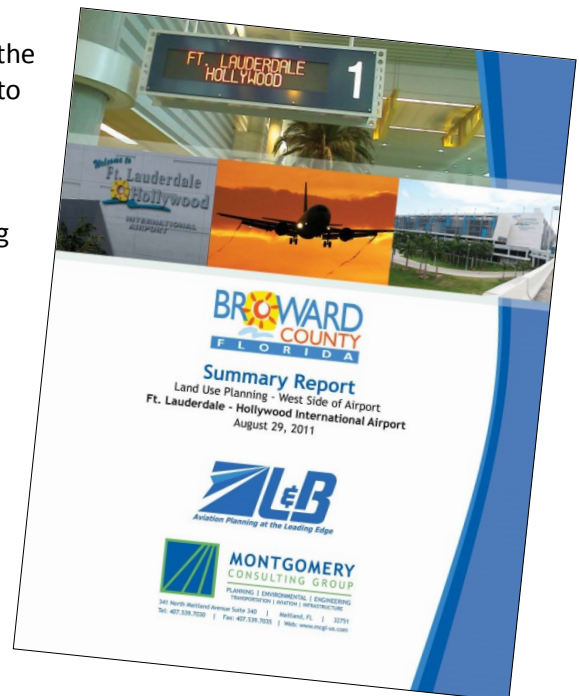
21. TITLE AND LOCATION <i>(City and State)</i> Master Planning – West Side Ft. Lauderdale – Hollywood International Airport, Ft. Lauderdale, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2011	CONSTRUCTION <i>(If applicable)</i> N/A – Planning Study

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Broward County Aviation Department (BCAD)	b. POINT OF CONTACT NAME Mr. Jamie McCluskie, Director of Planning (now with Reno –Tahoe Airport Authority)	c. POINT OF CONTACT TELEPHONE NUMBER (775) 328-6427 (Reno –Tahoe Airport Authority)

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

Montgomery Consulting Group, Inc. provided master facility planning for the west side of Ft. Lauderdale-Hollywood International Airport (FLL) for the following: development of land uses on the west side of the airport area to determine, on a master planning level, the schematic layouts of airport facility and support features, including: air cargo and aircraft/airline maintenance repair overhaul (MRO) areas, general aviation, support facilities including ground service equipment (GSE), flight kitchens, fueling systems and storage, aircraft rescue and fire-fighting (ARFF), and international waste disposal facilities.

MCG inventoried the existing land uses and facilities, coordinate with existing jurisdictional wetlands, considered local inter-agency agreements, and avoid conflicts with existing and proposed airfield development including FAA runway protection zones and other dimensional criteria, terminal area procedure requirements (TERPS) and FAR Part 77 surfaces, and other obstructions to air navigation. MCG developed several concepts and worked with Broward County Aviation Department to craft an ultimate layout for the west side development. Deliverables included CAD and GIS files and a summary report.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) Firm Name Montgomery Consulting Group, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Winter Park, FL	(3) ROLE Aviation Planning / Facility Planning

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 05
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21. TITLE AND LOCATION <i>(City and State)</i> Ft. Lauderdale-Hollywood International Airport Master Plan Update and Airport Layout Plan Set Ft. Lauderdale, Florida	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2004-2009	CONSTRUCTION <i>(If applicable)</i> N/A – Planning Study

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Broward County Aviation Department (BCAD)	b. POINT OF CONTACT NAME Mr. Jamie McCluskie, Director of Planning (now with Reno –Tahoe Airport Authority)	c. POINT OF CONTACT TELEPHONE NUMBER (775) 328-6427 (Reno –Tahoe Airport Authority)

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

Montgomery Consulting Group (MCG), as a sub-consultant to Jacobs Consultancy, was contracted to prepare a Master Plan Update and Airport Layout Plan Set for Ft. Lauderdale-Hollywood International Airport (FLL). In Phase 1 of the project (2004 – 2005), MCG was responsible for the air cargo and general aviation alternatives, and location of future BCAD office alternatives. The project was put on hold by BCAD while an environmental impact statement process was carried out by the FAA's EIS consultant. In Phases 2 and 3 (2007 – 2008), MCG is preparing the Airport Layout Plan set including coordination with FAA, their EIS consultant, BCAD, FDOT and others.

MCG's role in the Master Plan and Airport Layout Plan includes the following:

- Analysis and layout of air cargo facility alternatives recommendations;
- Analysis and layout of general aviation facility recommendations;
- Analysis and layout of aircraft rescue and fire-fighting (ARFF) facility recommendations;

- Development of an interim airport layout plan set to satisfy the requirements of the FAA for their EIS analysis, including development of an:
 - Airport Layout Plan,
 - Airport Data and Detailed Airfield Information,
 - Runway Approach Profiles (6 runway ends),
 - Inner Approach Plan & Profiles,
 - Obstruction Evaluation and Obstruction Tables,
- Development of a full airport layout plan set including updates of:
 - Airport Property Map,
 - Existing Conditions,
 - Airspace Analysis,
 - Extensive coordination with FAA to meet interim and full ALP requirements; and
 - Coordination with FAA and FDOT.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a.	(1) Firm Name Montgomery Consulting Group, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Winter Park, FL	(3) ROLE Aviation Planning / Facility Planning

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Lisa Waters	Planning/Public Outreach	A. TOTAL	B. WITH CURRENT FIRM
		25	5
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
Hanson Professional Services Inc., West Palm Beach, FL			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
B.S. / Aviation Management / Florida Institute of Technology		Commercial Pilot, single engine rated, instrument trained	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Noise Mitigation Program, Martin County Airport/Witham Field, Stuart, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project manager/senior planner. Selected to develop and implement the Martin County Voluntary Land Acquisition and Sound Insulation Program calls for the purchase and relocation of approximately 40 families and sound insulation of 450 homes in areas within the airports 65 DNL noise exposure contours. The project includes the restoration of underlying property and installation of security fencing to protect the vacant land, and the resale of homes purchased by the county, then sound insulated. Services include consultation with the airport staff to implement other measures included in the approved Noise Compatibility Program. Project cost: \$1,449,696.			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Environmental Assessment, New Taxiway A, Valkaria Airport, Valkaria, FL.	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2011	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Senior aviation planner for the preparation of the Environmental Assessment for the construction of New Taxiway A. Major components included agency coordination and public, review of aviation activity forecasts; evaluation of project alternatives and the affected environment; environmental consequences. The EA received a FONSI in 2011 after only 11 months of study. Project cost: 349,			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Arcadia Municipal Airport, General Consulting Services, Arcadia, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Senior aviation planner assisting the City staff with several engineering and planning projects including security fence and gate design and construction management, runway rejuvenation and marking, Airport Master Plan Update, review of administrative and operational documents, cost estimating and grant procurement, JACIP work program development and special event (Aviation Day) planning and coordination. Project cost: \$765,360.			
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Master Plan and Economic Impact Survey, Pompano Beach Air Park, Pompano Beach, FL.	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2008	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project director/senior planner. Hanson was selected to complete a comprehensive update to the Airport Master Plan of 1998. Responsibilities included supervision of senior planning staff, development and conduct of noise and environmental analysis, analysis of airport alternatives and conduct of all public agency coordination and community involvement. Responsibilities also included managing the economic impact survey. Project fee: \$119,987.			
e.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Master Plan Update, Venice Municipal Airport, Venice, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2007	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Principal in charge/senior planner. Responsible for addressing concerns of the airport including expansion of landside facilities including hangars, ramp, and tie-down areas; development of full parallel taxiways for both runways (13/31 and 5/23); and improved instrument approach procedures for Runway 13/31. In addition to the master plan and other capital projects, Hanson personnel were the lead consultant on the development of a commerce park plan evaluating potential uses of non-aviation land for revenue generating purposes. Project cost: \$340,000.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Jennifer Fehrs, PE	Design Engineer	A. TOTAL	B. WITH CURRENT FIRM
		9	4
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
Hanson Professional Services Inc., Lakewood Ranch, FL			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
B.S. / Business Administration B.S. / Civil Engineering		FL / Professional Engineer	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Taxiway A and Water Management System Improvement Planning, Design and Construction, Naples Municipal Airport, Naples, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project engineer performing storm water modeling tasks for the Taxiway A extension to Runway 23 threshold and the water management system improvements project. The project will include master drainage planning, pre-project water quality monitoring, pre-project wildlife monitoring, site specific Computational Fluid Dynamics modeling, system improvement design, permitting with the jurisdictional agencies, construction of crenellations/baffles in existing ponds, design and construction of automated monitoring systems for water quality and quantity, coordination with stakeholders including FAA, FDOT, the FDEP, and the 5 Water Management Districts (WMDs).			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	General Environmental and Stormwater Management Consultants, Sarasota Bradenton International Airport, Sarasota, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project engineer responsible for on-call inspections for the airports proper operation and maintenance of their stormwater management system for the Southwest Florida Water Management District. The projects scope of work consists of providing general consulting services to the airport on environmental, stormwater and permitting issues for projects including commercial development, hangars, aprons, taxiways and runways. Project cost: \$349,690.			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Runway 10/28 Reconstruction, Valkaria Airport, Valkaria, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project engineer responsible for assisting with the design, bidding and construction of Runway 10/28 pavement reconstruction to provide standard structural and functional condition. Existing pavement is functionality and structurally at or near failure and has exceeded its original design life. The project was designed following FAA requirements for design and construction. The project also includes grading and drainage for the Runway 10/28 Improvements. Recycling existing materials will be done to the maximum extent practicable.			
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	SRE & Maintenance Facility, Blue Grass Airport, Lexington, KY	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Stormwater engineer responsible for developing design for stormwater management system to meet water quality and quantity management criteria to meet the Lexington- Fayette Urban County Government Stormwater Manual for a Snow Removal Equipment Facility. The project is for a Snow Removal Equipment Facility, budgeted at approximately \$8M in construction value, consisting of two or three stand-alone structures. The facility will be complete with concrete apron paving, bituminous asphalt employee parking lot and access road, associated site drainage and necessary utilities (water, gravity sanitary, electric and communications).			
e.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Arcadia Municipal Airport, Runway Marking Improvements and Pavement Rejuvenation, Arcadia, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Engineer of record for the design, bidding and construction for the application of an asphalt pavement rejuvenation product and subsequent pavement marking application for runway, taxiway, and apron pavements. Additional work includes pavement marking removal, crack cleaning and sealing, and incidentals. Project cost: \$135,000.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Joe Worley, P.E.	Engineer	A. TOTAL	B. WITH CURRENT FIRM
		20	20
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
Hanson Professional Services Inc., Indianapolis, FL			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
B.S. / Civil Engineering / Southern Illinois University at Edwardsville / 1993		LA, IA, IL, IN, KY / Professional Engineer NCEES	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Pavement Condition Survey U.S. Army Corps of Engineers, Various Locations	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project manager responsible for conducting pavement condition surveys and determining the pavement condition index (PCI) for concrete and bituminous airfield pavements, roadways and parking lots at eighteen air bases across the United States. The work includes: records review and evaluation of as-built drawings for layout, pavement type and thickness, identification of base and subgrade materials; pavement condition surveys in accordance to ASTM D6433-09, calculating each pavement's PCI; and preparing a pavement condition report which includes evaluation results, engineering assessment and maintenance, repair and budget scenarios. Project cost: \$1,132,095			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	U.S. Army Corps of Engineers Fort Benjamin Harrison Pavement Condition Index, Indianapolis, IN.	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2008	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project manager responsible for pavement condition surveys and determining the pavement condition index (PCI) for concrete and bituminous roadways and parking lots. The work included: topographic survey; evaluation of as-built drawings for layout, pavement type and thickness, and identification of base, and subgrade materials; pavement condition surveys in accordance to Army technical manual TM 5-623; calculating each pavement's PCI; and preparing a pavement condition report. Project cost: \$1,087,900.			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Kentucky Statewide Airport Pavement Management Various Locations Statewide, Kentucky	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project manager responsible for performing records review and pavement history research that was utilized to perform a statewide needs assessment. Overall statistics on the current condition of Kentucky's airport pavements were generated. This information was provided for the entire airport system. Future pavement condition over a 5 year period was estimated to determine needs, level of repair required, and estimated cost for that time period. All analysis was performed using the MicroPAVER software. Project cost: \$400,000.			
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	General Consulting Services, Monroe County Airport, Bloomington, IN	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Program/Project Manager responsible for planning, design and construction of all projects completed under this program which have included an ALP, hangar site development, environmental assessments, land acquisition, parallel taxiway to Runway 6/24, runway safety area grading and drainage improvements, airfield lighting system and NAVAID improvements, perimeter service road, perimeter and terminal access fencing, roadway reconstruction and railroad bridge replacement and taxiway rehabilitation and new construction to include karst mitigation and runway rehabilitation.			
e.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Indianapolis International Airport, Pavement Improvements, Indianapolis, IN	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Project Manager responsible for planning, design and construction of projects completed under this program which have included pavement rehabilitation to Runway 14/32, Foxtrot Lane, Runway 5L/23R and Taxiways A, B,C and D. Rehab methods include pavement milling, crack repair, pavement removal and subgrade repair and bituminous paving.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Jean Dussault, CxA, CEA, EI	Commissioning Specialist	A. TOTAL	B. WITH CURRENT FIRM
		22	6
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
Commissioning Specialist			
16. EDUCATION <i>(Degree and Specialization)</i>	17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>		
B.S. / Mechanical Engineering	Certified Commissioning Authority, FL / Engineer in Training, Certified Energy Auditor / Qualified Commissioning Process Provider (QCxP), Commissioning Process Technical Support Provider/ Professional Engineer (P. Eng.)/Quebec, Canada, FL / General Contractor Certification		
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
		PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
a.	University of North Florida Buildings 14B, 14D and 14E Commissioning, Jacksonville, FL	2010	
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Commissioning specialist. Hanson provided building commissioning services for the renovation and remodeling of various mechanical (HVAC) and electrical systems at three buildings on the campus of the University of North Florida in Jacksonville, Florida. The buildings include 14B, 14D (Andrew Robinson Jr. building) and 14E; with the majority of the renovated spaces serving office and administrative functions. Cx services under these projects involved commissioning of the new and renovated mechanical HVAC equipment and related controls, the lighting system controls and the fire alarm system upgrades. Commissioning activities for the upgraded systems were integrated with the Contractor's construction schedule. The commissioning services included: development of the Commissioning Plan (Cx Plan), development of component verification checklists (CVC), construction observation (verification of equipment installation and start-up), functional performance testing of HVAC systems, oversight review of O&M training and documentation.		
b.	Broward College Building 72 Remodeling Pembroke Pines, FL	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Commissioning Specialist. The remodeling of Building 72 includes the learning resource area, general classrooms, computer classrooms, offices and support areas. The project will also require complete building services i.e. electrical power, HVAC, plumbing, security, fire alarm, data and telephone systems. This project has been registered to receive LEED certification.		
c.	Brevard County Schools Cocoa Beach Jr./Sr. High School Retro-Commissioning (RCx) Services, Cocoa Beach, FL	2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Commissioning specialist. Hanson provided retro-commissioning services for a recently renovated Brevard Public School, Cocoa Beach Jr/Sr High School. Hanson's scope of work centered on the mechanical HVAC systems. With the School District seeking to improve operational performance and decrease energy usage, Hanson was closely involved with the Owner in four phases of the project: Planning, Investigation, Implementation and Acceptance/Hand-off. To assist in accomplishing the project goals, Hanson developed component		
d.	School District of Palm Beach County Commissioning Services, Palm Beach County, Florida	2009	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Commissioning specialist. Hanson was selected to act as one of two Commissioning Providers for new construction or modernization on 17 schools in the 100,000 – 400,000 sf range providing documented confirmation that a facility fulfills the functional and performance requirements of the building owner, occupants and operators. Hanson received an "Outstanding Business Partner" award from the School District of Palm Beach County for our work on this contract.		
e.	Torrey Pines Institute of Molecular Studies, Port St. Lucie, FL	2008	2008
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
	Commissioning specialist. Hanson is serving as the Building Commissioning Authority for the mechanical and electrical systems for this facility. Systems to be commissioned include HVAC Mechanical systems and Associated Witnessing, Electrical Systems, Fire Alarm, Life Safety and Plumbing Systems. The building will feature: Research Laboratories, Offices, Animal Holding Areas, Cold rooms (1x), Bio Safety Level (BSL) One type 1 room, Cage Wash Area(s) and Engineering and Maintenance Services Area(s). This project achieved a USGBC LEED Silver certified status.		

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Robert Knoedler, P.E., EMP, CxA	Commissioning Engineer	A. TOTAL	B. WITH CURRENT FIRM
		37	37
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
Hanson Professional Services Inc., West Palm Beach, FL			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
B.S. / Electrical Engineering M.S. / Mechanical Engineering (Thermal Systems)		Certified Commissioning Authority NC, NY, DC, FL, GA, AL, LA, MA, MS, MO, TX, VA, WI, SC, CA / Professional Engineer Energy Management Professional	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	<i>Brevard Public Schools Commissioning and Retro-Commissioning Services, Viera, FL.</i>	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Senior commissioning authority for both new school commissioning and for retro-commissioning services for eight schools. Work includes developing scope, approach, testing protocols, final recommendations, overseeing implementation and final reports.			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	<i>Orlando Health Main Campus West Central Energy Plant Commissioning and Retro-Commissioning, Orlando, FL</i>	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2012	2012
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Senior Cx Authority. The commissioning contract deals with two projects; the first project (complete) expanded their plant through the addition of a new 2,800 ton chiller with associated tower and pumps. The second project (under construction) is an electrical re-feed project adding another stand-by generator, fuel storage and fuel transfer pumps; along with electrical revisions to re-feed the MD Anderson Cancer Center and the Ambulatory Care Center. Project cost: \$7 million.			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	University of South Florida Southeast Central Energy Plant Commissioning, Tampa, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2011	2011
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Senior Cx Authority. Hanson provided commissioning services for the new Southeast Central Energy Plant located adjacent to the Sun Dome on the USF campus in Tampa, Florida. The new South East Chiller Plant is a 26,500 SF facility that includes 2 new 2300-ton water cooled centrifugal chillers; associated cooling towers, and pumps. The facility is preplanned and constructed for expanding the plant to include three additional 2300-ton chillers and associated equipment. Project cost: \$11.2 million.			
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Broward College Building 72 Remodeling Pembroke Pines, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2010	2010
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Mechanical Engineer. The remodeling of Building 72 includes the learning resource area, general classrooms, computer classrooms, offices and support areas. The project will also require complete building services i.e. electrical power, HVAC, plumbing, security, fire alarm, data and telephone systems. This project has been registered to receive LEED® certification.			
e.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	School District of Palm Beach County Commissioning Services Provider, West Palm Beach, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2009	2009
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Principal-in-charge responsible for overseeing the commissioning services for new construction or modernization in the 100,000- to 400,000-square-foot range. Responsible for providing documented confirmation that a facility fulfills the functional and performance requirements of the building owner, occupants and operators. The commissioning process will establish and document the owner's criteria for system function, performance and maintainability; and also to verify and document compliance with these criteria throughout design, construction, start-up and the initial period of operation. Complete operation and maintenance (O&M) manuals and training on system operations will be provided to ensure the building continues to operate as intended.			

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EXPERIENCE	
Walter Land	Resident Project Representative	A. TOTAL	B. WITH CURRENT FIRM
		36	7
15. FIRM NAME AND LOCATION <i>(City and State)</i>			
Hanson Professional Services Inc., Lakewood Ranch, FL			
16. EDUCATION <i>(Degree and Specialization)</i>		17. CURRENT PROFESSIONAL REGISTRATION <i>(State and Discipline)</i>	
		HAZMAT	
18. OTHER PROFESSIONAL QUALIFICATIONS <i>(Publications, Organizations, Training, Awards, etc.)</i>			

19. RELEVANT PROJECTS

a.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	U.S. Army Corps of Engineers Pavement Condition Survey, Omaha District	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Field inspector responsible for conducting pavement condition surveys and determining the pavement condition index (PCI) for concrete and bituminous airfield pavements, roadways and parking lots at fourteen air bases across the United States. The work includes: records review and evaluation of as-built drawings for layout, pavement type and thickness, identification of base and subgrade materials; pavement condition surveys in accordance to ASTM D6433-09, calculating each pavement's PCI; and preparing a pavement condition report which includes evaluation results, engineering assessment and maintenance, repair and budget scenarios. Project cost: \$1,132,095			
b.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Naples Municipal Airport, Taxiway A and Water Management System Improvement Planning, Design, and Construction, Naples, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Resident project representative for Taxiway A extension to Runway 23 threshold and the water management system improvements. The project will include master drainage planning, pre-project water quality monitoring, pre-project wildlife monitoring, site specific Computational Fluid Dynamics modeling, system improvement design, permitting with the jurisdictional agencies, construction of crenellations/baffles in existing ponds, design and construction of automated monitoring systems for water quality and quantity, coordination with stakeholders including FAA, FDOT, the FDEP, and the 5 Water Management Districts (WMDs). Ancillary work will include aerial topographical surveys, creating a GIS for the project consistent with FAA guidelines and WMD, and public outreach. Project cost: \$4,500,000			
c.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Valkaria Airport, New Parallel Taxiway B and Apron Replacement, Valkaria, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		Ongoing	Ongoing
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Resident project representative. Project involves recycling the existing base into a stabilized subgrade, constructing new limerock base and constructing a new bituminous surface. The pavement surface recycling through mixing with in-place soils creates a stabilized base with a CBR of 50. However, since the apron grades and taxiway grades are constrained by adjacent structures and pavements, there is also an excess of the stabilized soil/pavement mixture. This is stockpiled for use in the upcoming new parallel Taxiway A project. Tasks also include drainage reconstruction and improvements, helicopter and turbine aircraft fueling hardstands, and grading of the infield to remove wetlands mitigated under an associated project. Project cost: \$2,675,000.			
d.	(1) TITLE AND LOCATION <i>(City and State)</i>	(2) YEAR COMPLETED	
	Greystone Airport, Pavement Analysis Study Ocala, FL	PROFESSIONAL SERVICES	CONSTRUCTION <i>(If applicable)</i>
		2007	N/A
	(3) BRIEF DESCRIPTION <i>(Brief scope, size, cost, etc.)</i> AND SPECIFIC ROLE	<input checked="" type="checkbox"/> Check if project performed with current firm	
Resident project representative retained to determine the load carrying capacity in terms of the pavement classification number as defined in FAA Advisory Circular 150/5335-5A. The scope of services included 14 coreborings spaced every 500-ft. along the length of the runway. The depth of each boring was documented for pavement, base and subbase thickness. Field tests were ran to determine the CBR values for the base and subbase. Moisture content and grain size distribution analysis at each location was performed. The data was analyzed to arrive at a pavement curve number for each section utilizing various wheel configurations (dual gear, dual tandem and single wheel). The quartile value field data was utilized to arrive at a single PCN number for the airfield. Project cost: \$20,000.			

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 01
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21. TITLE AND LOCATION <i>(City and State)</i> Pavement Condition Survey and MicroPAVER Pavements Management System Update, Various Locations	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2012	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER AFCESA	b. POINT OF CONTACT NAME George Van Steenberg	c. POINT OF CONTACT TELEPHONE NUMBER (850) 283-6083

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

The U.S. Army Corps of Engineers, Omaha District, and the Air Force Civil Engineering Support Agency selected Hanson to provide Pavement Condition Surveys and MicroPAVER Pavement Management System updates for fourteen U.S. Air Force Bases across the United States. Hanson conducted surveys for more than 33 million square-feet of roads and parking lots at Grissom Air Reserve Base, Indiana; Youngstown Air Reserve Station, Ohio; Homestead Air Reserve Base, Florida; Dobbins Air Reserve Base, Georgia; and Scott Air Force Base, Illinois. Subconsultants were hired by Hanson to conduct surveys at the remaining locations which included: McConnell Air Force Base, Kansas; Minneapolis-St. Paul Air Reserve Station, Minnesota; March Air Reserve Base, California; Travis Air Force Base, California; Grand Forks Air Force Base, North Dakota; Niagara Falls Air Reserve Base, New York; Pittsburgh Air Reserve Station, Pennsylvania; Westover Air Reserve Base, Massachusetts; and Dover Air Force Base, Delaware.

The scope of work included:

1. Provide assistance to DOD installations for implementation of MicroPAVER Pavement Management System.
2. Pavement network definition and inventory.
3. Creation and manipulation of CADD files and GIS shape files. Translation of data files between AutoCAD, Microstation and GIS shape files.
4. Collection of work history data.
5. Inspection of airfield and roadway pavements and identification of pavement distresses using both manual and automated techniques.
6. Input of inspection data into MicroPAVER and development of Pavement Condition Index (PCI) Structural Condition Index (SCI) and Foreign Object Debris (FOD) Index.
7. Pavement Maintenance and Rehabilitation work planning.
8. Preparation of PAVER Implementation reports and drawings.
9. Provide inbriefing, outbriefing and Paver training for personnel.

All of Hanson's work was accomplished in accordance with the following guidance as applicable: ASTM 5340-10; ASTM 6433-09 (roads and parking); ETL 04-9 (airfields, roads and parking); and UFC 03-260-16; UFC 3-270-05; UFC 3-270-06 (airfields); and MicroPAVER User's Guide.

Hanson used YUMA's (tablet computers) which feature GPS and geo-coding cameras that allowed our field personnel to gather real-time data. We used MicroPAVER/Field inspector software to collect data in the field and the desk top version to process data and generate PCI reports. Additionally ArcPad was used to geo-locate field personnel and the data base network.

GIS was used for everything from field data collection to finished map/atlas production. Field information was collected on handheld computers with QA/QC checks built into the software. Hanson has extensive experience in a variety of GIS software including ArcIMS, ArcGIS 8.x, Arcview 3.x, ARC/INFO, ArcCAD, ArcPad, GeoMedia and Geographics. Project fees: Scott AFB--\$124,773; Grissom ARB--\$54,864; Youngstown ARS--\$53,137; Homestead ARB-- \$67,742; and Dobbins ARB--\$60,666



"Hanson exhibited outstanding professionalism and cooperation throughout the effort. They were very conscientious regarding status of reports and invoices for both themselves and their subcontractors. They were flexible and willing to work with the government on schedule issues."

George Van Steenburg, Pavements Program Manager, HQ AFCESA

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a	(1) Firm Name	(2) FIRM LOCATION <i>(City and State)</i>	(3) ROLE
	Hanson	Indianapolis	Project Management
	Hanson	Lakewood Ranch, FL	Construction Observation

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 02
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21. TITLE AND LOCATION <i>(City and State)</i> Brevard County Schools Commissioning and Retro-Commissioning Services	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2010

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER School Board of Brevard County	b. POINT OF CONTACT NAME Dennis Bonny	c. POINT OF CONTACT TELEPHONE NUMBER (321) 633-1000
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Hanson provided commissioning and retro-commissioning services for a number of schools in Brevard County, Florida. Initially, Hanson provided commissioning services for a new high school, Heritage High School, CCC, constructed in Heritage, Florida. Hanson's scope of work centered on the mechanical HVAC systems. Engaged during construction, Hanson developed component verification (pre-functional) checklists documenting the installation and start-up of the equipment; as well as developed and witnessed functional performance tests (FPT) to ensure the proper operation and sequencing of the various HVAC systems.

In addition to commissioning of new schools, Hanson has retro-commissioned a number of existing schools, seeking to improve operational performance and decrease energy usage. The retro-commissioning process involves four phases: Planning, Investigation, Implementation and Acceptance/Hand-off.

To date Hanson has provided retro-commissioning services for eight Schools in the Brevard Public School system, including:

- Bayside High School, Palm Bay, FL
- Cocoa Beach Jr.-Sr. High School, Cocoa Beach, FL
- Heritage High School CCC, Heritage, FL
- Meadowlane Intermediate Elementary School, Melbourne, FL
- Merritt Island High School, Merritt Island, FL
- Satellite High School, Satellite Beach, FL
- Titusville High School, Titusville, FL
- Viera High School, Viera, FL



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) Firm Name Hanson	(2) FIRM LOCATION <i>(City and State)</i> Orlando, FL	(3) ROLE Commissioning Services
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F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 03
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21. TITLE AND LOCATION <i>(City and State)</i> Martin County Airport/Witham Field Noise Mitigation Program	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> N/A

23. PROJECT OWNER'S INFORMATION		
a. PROJECT OWNER Martin County	b. POINT OF CONTACT NAME George Stokus, A.A.E.	c. POINT OF CONTACT TELEPHONE NUMBER (772) 221-2374

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

Martin County Airport is located in the heart of Stuart, Florida. Throughout 2002, the busy general aviation airport recorded more than 330 daily operations and was the base of operations for 232 aircraft. Due to increases in population and a strong local economy, SUA has emerged as an important market for corporate aviation. Increases in activity and the emergence of grassroots efforts to relocate and close the airport have heightened concerns of area residents on the impacts of aircraft noise. To address these concerns, Martin County instituted a voluntary noise abatement program and initiated a FAR Part 150 Noise/Land Use Compatibility Study in 2000. The FAA issued its record of approval for the Noise Compatibility Program (NCP) in 2003. The NCP included a noise mitigation program for neighborhoods closest to the airport including a program for the acquisition of properties within the airports 65 DNL noise exposure contours.

Hanson was brought under contract d to manage the County's noise mitigation program. Program responsibilities include, land acquisition & relocation assistance, sound insulation program development and implementation, noise land inventory and re-use plan formulation, and other related services.

Hanson is the prime consultant responsible for full program implementation. The Land Acquisition Program calls for the purchase/relocation of approximately 40 families and the restoration of underlying property. The Sound Insulation Program calls for sound insulation modifications to more than 250 homes. Hanson's responsibilities include:

- coordination with FAA and Florida DOT for the development of project grants and grant close out activities;
- completion of required project status reports and FAA quarterly grant summaries;
- development and coordination of required policies and procedures manuals, relocation plans, community outreach and homeowner assistance programs;
- coordination of all appraisal services, phase 1 & 2 environmental surveys and project permitting;
- coordination of offers to purchase, title work, closings and replacement housing;
- coordination of demolition and site restoration tasks including permitting, resident project inspection and supervision;
- completion of the noise land inventory and re-use plan;
- development of sound insulation plans and specifications;
- coordination of permitting activities, construction contractor procurement and construction observation;
- project / grant closeout activities; and
- other professional services as required by the client.

Project cost: \$1,449,696.

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT			
a	(1) Firm Name Hanson	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, FL	(3) ROLE Project Management

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 04
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21. TITLE AND LOCATION <i>(City and State)</i> Broward College Building 72 Remodeling and Commissioning, Broward County, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES 2010	CONSTRUCTION <i>(If applicable)</i> 2010

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER Broward College	b. POINT OF CONTACT NAME Michael Hamilton	c. POINT OF CONTACT TELEPHONE NUMBER
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

Hanson is providing architectural and engineering services for the remodeling of Building 72 on the South Campus of Broward College. Currently Building 72 houses the Broward County South Regional Library. The Broward County Library System is in the process of building a new library facility on the South Campus. Once the new library is complete, the current library in Building 72 will be vacated.



Building 72 consists of approximately 65,000 SF. The remodeling includes a 7,500 SF nursing department including a simulation lab (12 beds), classrooms and debriefing rooms, learning resource area, offices and support areas. The project will also require complete building services i.e. electrical power, HVAC, plumbing, security, fire alarm, data and telephone systems.

Hanson is also developing educational specifications, preparing design and construction documents and will provide construction administration.

Hanson is also providing building commissioning services for this project which received LEED Gold certification.

The commissioning services include planning (design intent), design (reviews), construction (field inspection and start-up), functional performance testing (including O&M training) and warranty review for mechanical, electrical and fire alarm systems.

The commissioning process will establish and document the owner's criteria for system function, performance and maintainability. In addition, Hanson will provide complete operation and maintenance (O&M) manuals. (The contractor provided this service; we just confirmed that all required information was included. We should take the last sentence out.)

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) Firm Name Hanson	(2) FIRM LOCATION <i>(City and State)</i> Orlando, FL	(3) ROLE Prime
b	(1) Firm Name Hanson	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, FL	(3) ROLE

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT <i>(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)</i>	20. EXAMPLE PROJECT KEY NUMBER 05
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21. TITLE AND LOCATION <i>(City and State)</i> Naples Municipal Airport, Taxiway A and Water Management System Improvement, Naples, FL	22. YEAR COMPLETED	
	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION <i>(If applicable)</i> Ongoing

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER City of Naples Airport Authority	b. POINT OF CONTACT NAME Kerry Keith	c. POINT OF CONTACT TELEPHONE NUMBER (239) 643-1827
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24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT *(Include scope, size, and cost)*

The project is an extension of Taxiway A to Runway 23 threshold and state-of-the-art water management system modifications and improvements. The Taxiway A extension has enhanced airport safety and operations by limiting or removing the need to cross an active runway to access the Runway 23 threshold.

The water management system improvements includes a master drainage planning, pre-project water quality monitoring, including 400 acres of off-site drainage through the airports pond system, pre-project wildlife monitoring, site specific Computational Fluid Dynamics (CFD) modeling, system improvement design, permitting with the jurisdictional agencies, construction of crenellations/baffles in existing ponds, design and construction of automated monitoring systems for water quality and quantity, coordination with stakeholders including FAA, FDOT, the Florida FDEP, and the five Water Management Districts (WMDs). Ancillary work will include aerial topographic surveys, creating a GIS for the project consistent with FAA guidelines and WMD, and public outreach. The final monitoring will be incorporated into the Florida Statewide Airport Stormwater Study, potentially changing rules for wet ponds on and near airports in the state.

Estimated project cost excluding post construction monitoring: \$4,500,000.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a	(1) Firm Name Hanson	(2) FIRM LOCATION <i>(City and State)</i> Lakewood Ranch, FL	(3) ROLE Design Engineering, Project Management
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ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)
RFQ # 946-11300

PART II – GENERAL QUALIFICATIONS

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


2a. FIRM (OR BRANCH OFFICE) NAME Hanson Professional Services Inc.			3. YEAR ESTABLISHED 1974	5. DUNS NUMBER 06-251-4104
2b. STREET 1601 Belvedere Road, Suite 303 South			5. OWNERSHIP	
2c. CITY West Palm Beach			2d. STATE FL	2e. ZIP CODE 33406
6a. POINT OF CONTACT NAME AND TITLE Lisa Waters, Senior Aviation Planner			a. TYPE Corporation	
6b. TELEPHONE NUMBER (941) 342-6321		6c. E-MAIL ADDRESS lwaters@hanson-inc.com		
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
6a. POINT OF CONTACT NAME AND TITLE Lisa Waters, Senior Aviation Planner			b. SMALL BUSINESS STATUS No	
			7. NAME OF FIRM (If block 2a is a branch office) Hanson Professional Services Inc.	

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
	Airport Engineers / Planners	13	3	A05	Airports; Nav aids; Airport Lighting; Aircraft	4
	Commissioning Specialists	7	2	O01	Office Building; Industrial Parks	3
15	Construction Inspectors	6	1	H04	Heating, Ventilating, Air Conditioning	4
58	Technicians / Analysts	51	1	E02	Educational Facilities; Classrooms	2
				H11	Housing (Residential, Multifamily,	2
				E07	Energy Conservation; New Energy Sources	1
				R06	Rehabilitation (Buildings; Structures;	1
					Electrical Studies and Design	1
				L04	Libraries; Museums; Galleries	1
				P12	Power Generation, Transmission,	1
				L03	Landscape Architecture	1
					Contract Admin/Claims Analysis	1
				H09	Hospitals & Medical Facilities	0
				D07	Dining Halls; Clubs; Restaurants	1
					Military Facilities; Armory	1
				H10	Hotels; Motels	1
				J01	Judicial and Courtroom Facilities	1
				S07	Solid Wastes; Incineration; Landfill	1
				H06	Highrise; Air-Rights-Type Buildings	1
				P06	Planning (Site, Installation and Project)	0
	Other Employees	282	0		Animal Facilities	0
	Total	359	7	E09	Environmental Impact Studies, Assessments	1

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

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	c. DATE 2/12/14
c. NAME AND TITLE Lisa Waters, Senior Aviation Planner	



ARCHITECT – ENGINEER QUALIFICATIONS

1. SOLICITATION NUMBER (if any)
RFQ # 946-11300

PART II – GENERAL QUALIFICATIONS

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


2a. FIRM (OR BRANCH OFFICE) NAME Hanson Professional Services Inc.			3. YEAR ESTABLISHED 1974	6. DUNS NUMBER 61-758-7316
2b. STREET 720 N. Maitland Ave., Suite 102			5. OWNERSHIP	
2c. CITY Maitland (Orlando)	2d. STATE FL	2e. ZIP CODE 32751	a. TYPE Corporation	
6a. POINT OF CONTACT NAME AND TITLE William Bradford, Government and Energy Market Principal			b. SMALL BUSINESS STATUS No	
6b. TELEPHONE NUMBER (407) 622-2050 x5516		6c. E-MAIL ADDRESS bbradford@hanson-inc.com		
8a. FORMER FIRM NAME(S) (If any)			8b. YR. ESTABLISHED	8c. DUNS NUMBER

9. EMPLOYEES BY DISCIPLINE				10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS		
a. Function Code	b. Discipline	c. No. of Employees		a. Profile Code	b. Experience	c. Revenue Index Number (see below)
		(1) FIRM	(2) BRANCH			
06	Architects	4	2	E02	Educational Facilities; Classrooms	2
42	Mechanical Engineers	8	1	O01	Office Building; Industrial Parks	2
	Commissioning Specialists	7	2		Military Facilities; Armory	2
21	Electrical Engineers	9	1	J01	Judicial and Courtroom Facilities	2
02	Administrative	62	2	O03	Ordinances; Munitions; Special Weapons	2
				I05	Interior Design; Space Planning	1
				H04	Heating, Ventilating, Air Conditioning	1
				C06	Churches; Chapels	1
				A05	Airports; Navais; Airport Lighting; Aircraft	1
				M05	Military Design Standards	1
				H09	Hospitals & Medical Facilities	1
				C13	Computer Facilities; Computer Service	1
				H07	Highways; Streets; Airfield Paving; Parking	1
				R06	Rehabilitation (Buildings; Structures;	1
				I02	Industrial Processes; Quality Control	1
				E07	Energy Conservation; New Energy Sources	1
				F03	Fire Protection	1
					Design - Build	1
				P06	Planning (Site, Installation and Project)	1
				L01	Laboratories; Medical Research Facilites	1
	Other Employees	269	0	P12	Power Generation, Transmission,	1
	Total	359	8	C12	Communications Systems; TV; Microwave	1

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

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

a. SIGNATURE 	d. DATE 2/12/14
c. NAME AND TITLE Lisa Waters, Senior Aviation Planner	



NON-COLLUSION STATEMENT:

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

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

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

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

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

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

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

<u>NAME</u>	<u>RELATIONSHIPS</u>
Not Applicable	
_____	_____
_____	_____

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

LOCAL BUSINESS PREFERENCE CERTIFICATION STATEMENT

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

(1) _____
 Business Name is a **Class A** Business as defined in City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the City of Fort Lauderdale current year Business Tax Receipt **and** a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.

(2) _____
 Business Name is a **Class B** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Business Tax Receipt **or** a complete list of full-time employees and their addresses shall be provided within 10 calendar days of a formal request by the City.

(3) HDR Engineering, Inc.

 Business Name is a **Class C** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. A copy of the Broward County Business Tax Receipt shall be provided within 10 calendar days of a formal request by the City.

(4) _____
 Business Name requests a **Conditional Class A** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

(5) _____
 Business Name requests a **Conditional Class B** classification as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. Written certification of intent shall be provided within 10 calendar days of a formal request by the City.

(6) _____
 Business Name is considered a **Class D** Business as defined in the City of Fort Lauderdale Ordinance No. C-12-04, Sec.2-199.2. and does not qualify for Local Preference consideration.

BIDDER'S COMPANY: HDR Engineering, Inc.
 AUTHORIZED COMPANY PERSON: Charles T. Sinclair, PE

 NAME SIGNATURE DATE



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

ADDENDUM NO. 1

RFQ 946-11300
Fort Lauderdale Executive Airport Sustainability Master Plan - CCNA

ISSUED February 27, 2014

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

Addition of the current Airport Master Plan and associated drawings.

All other terms, conditions, and specifications remain unchanged.

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

Company Name: HDR Engineering, Inc.
(please print)

Bidder's Signature: 

Date: 03/17/2014