



Request for Qualification
RFQ-365-26-JJ

Engineering Services for Stormwater Pump Station #16 - Jackson to Jefferson Street Along SR A1A

City of Hollywood, FL



3250 West Commercial Blvd.,
Suite 100,
Fort Lauderdale, FL 33309

Feb. 12
2026



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EXECUTIVE SUMMARY



February 12, 2026

Jean Joinville, Procurement Manager
Community Redevelopment Agency
2600 Hollywood Blvd, Suite 303
Hollywood, FL 33020

RE: RFQ-365-26-JJ – Engineering Services for Stormwater Pump Station #16

Dear Evaluation Committee Members,

We understand that the City of Hollywood is undertaking Stormwater Pump Station #16 to address chronic flooding along and adjacent to State Road A1A between Jackson Street and Jefferson Street, and to improve overall resiliency within the Community Redevelopment Agency (CRA) district. The City has determined that higher tide elevations, combined with recurring storm events, have created flooding conditions that can create unsafe conditions for vehicles and pedestrians, disrupt access for residents and visitors, and place added strain on the City’s drainage infrastructure. This project is a critical step in advancing the corridor improvements identified through the City’s Drainage Master Plan and related hydraulic studies, with outcomes that include reduced flood duration, improved roadway safety, provide resiliency, and reliable pump station performance during high tide and storm events.

HDR Engineering, Inc. (HDR) is pleased to submit our Statement of Qualifications for the Engineering Services for Stormwater Pump Station #16. We recognize the City’s need for a reliable and experienced partner to provide professional services from early alternatives evaluation through design, permitting, bid support, and construction administration, based on the City’s Basis of Design Report.

Why HDR is the right choice for the project:



Extensive Knowledge of the proposed improvements and Costal Stormwater Projects: We have assigned one of our most senior and experienced stormwater pump station project managers, Alex Vazquez, to lead this effort. Alex previously served as Project Manager for the FDOT Van Buren Stormwater Pump Station design, located immediately north of this project, as well as the CRA/City Azalea Stormwater Pump Station Project design scoping and scheduling, located to the south. This direct experience with adjacent facilities provides critical continuity and institutional knowledge of local conditions, agency requirements, and stakeholder expectations. This institutional knowledge will allow us to compress the project’s design schedule, minimize the learning curve, and deliver cost savings to the City.

Supporting Alex, Cristina Ortega will serve as Principal-in-Charge and brings directly comparable leadership from the City of Miami Beach, including delivery of complex, multi-disciplinary stormwater neighborhood improvements that advanced pump station design and regulatory coordination, as well as guiding a Citywide stormwater master plan update and program implementation.

Giancarlo Peña will serve as Lead Stormwater Engineer and draws on closely aligned pump station and drainage improvement work in the City of Miami Beach and City of Fort Lauderdale, including design and permitting support for neighborhood-scale stormwater improvements with pump station elements and large drainage/ force main components, and senior design management for coastal resilience projects that required rigorous QA/QC and stakeholder coordination.

**AUTHORIZED
SIGNATORY**

Vice President,
Jeffrey B. Arms, has authority to sign and commit HDR to this proposal and will be HDR’s signatory to any contract documents executed with the City.



Juliana Ortiz will serve as Lead Roadway Engineer and brings complementary roadway and utility integration experience from resilient roadway reconstruction and corridor projects that paired roadway improvements with stormwater collection/treatment and permitting/coordination with the Florida Department of Transportation, critical for maintaining access and mobility while advancing a permit-ready design. This experience supports a practical evaluation of pump station location alternatives and a design that is constructible, permittable, and operable.



Technical Leadership in Multidiscipline Design and South Florida Permitting: HDR offers an integrated team covering civil, structural, mechanical, electrical, instrumentation, landscape architecture, and stormwater design. We bring a proven approach to coordinating permitting and stakeholder requirements across agencies such as the US Army Corps of Engineers, SFWMD, Broward County, and FDOT, and we manage submissions and comment resolution with a clear permitting roadmap aligned to the City's schedule and priorities. Early agency coordination supports schedule certainty and reduces permitting risk by confirming requirements early, aligning review expectations, and resolving comments efficiently.



Complementary Services that Improve Project Delivery: This effort is more than a design package. HDR brings complementary services such as cost estimating and constructability reviews at key milestones, graphics and visualization to support site selection and stakeholder discussions, and disciplined project controls to support timely decisions and coordinated submittals. These tools help reduce bid risk and cost uncertainty for the City in the current market. Our approach emphasizes clear communication, responsive coordination, and documentation that support a smooth bid and construction phase.



Community Engagement and Transparency: The SR A1A corridor is highly visible and impacts residents, businesses, and visitors. HDR supports proactive outreach and clear, understandable materials to help communicate alternatives, easement considerations, and construction impacts. During construction, we provide responsive administration and field support to help the City manage RFIs, submittals, change requests, and closeout efficiently.

We appreciate the opportunity to work with the City on this critical project. If you need any additional information, please contact Alex Vazquez, at 786-264-3887. Thank you for your consideration.

Sincerely,
HDR Engineering, Inc.

Alex Vazquez, PE, CFM
Project Manager

Jeffrey B. Arms
Vice President/Authorized Signatory

TAB B

EXECUTIVE SUMMARY



HDR is a nationally recognized, employee-owned multidisciplinary firm providing professional services to public and private clients. **We are committed to partnering with the City of Hollywood and the Hollywood CRA to deliver practical, forward-thinking solutions that reduce flood risk, improve coastal corridor reliability, resiliency, and enhance quality of life for residents, businesses, and visitors.**

HDR has a strong presence in South Florida and a long history of delivering stormwater and flood mitigation improvements for municipal clients and transportation agencies. We are proud of the work we have completed across Broward County and throughout Florida, including stormwater pump station and neighborhood flood mitigation programs that require close coordination with FDOT, environmental permitting agencies, utilities, and community stakeholders.

Our experience spans the full range of services anticipated for this assignment, from alternatives evaluation and design of Stormwater Pump Station #16 to hydrologic and hydraulic analysis, permitting support, roadway/traffic coordination, bid support, and construction administration/CEI services. In this Statement of Qualifications, we highlight the HDR Team’s qualifications, relevant experience, and the technical and management approaches that demonstrate our capability to support the City’s objectives and deliver an operable, maintainable, and permit-ready solution within the constraints of a highly visible coastal corridor.

By working together, we can deliver improvements that reduce recurring flooding impacts, support the City’s resiliency goals, and strengthen the SR A1A corridor for years to come.

HDR is a service-oriented firm with a strong commitment to the communities where we live and work. With more than 14,000 employee-owners, HDR supports clients in planning, designing, and delivering complex public infrastructure projects and in making sound, defensible technical decisions. Our professionals partner with clients to provide innovative, implementable solutions beyond the scope of traditional A/E/C firms. **Engineering News-Record has ranked HDR among the top U.S. firms for decades**, and since our founding in 1917, HDR has continually broadened its expertise to offer comprehensive, multidisciplinary services.

COMPANY SNAPSHOT

FIRM NAME

HDR Engineering, Inc.

CORPORATE OFFICE

1917 S 67th Street
Omaha, NE 68106

OFFICE TO PERFORM WORK

3230 West Commercial Boulevard
Suite 400
Fort Lauderdale, FL 33309
P: 954.233.4914
F: 954.233.4953
hdrinc.com

BUSINESS STRUCTURE

Corporation

POINT OF CONTACT

Alex Vazquez, PE, CFM
Project Manager
786.264.3887
Alexis.Vazquez@hdrinc.com

HDR brings integrated capabilities across the disciplines most critical to success:

- **Transportation** – Roadway and corridor coordination; traffic/MOT support; signing and pavement markings; utility and agency coordination for FDOT-controlled facilities.
- **Environmental Science and Planning** – Environmental due diligence and permitting support; agency coordination; resource considerations in coastal settings; documentation to support timely approvals
- **Water and Stormwater** – Stormwater pump station planning and design; flood mitigation and resiliency improvements; hydrologic and hydraulic modeling; drainage system evaluation and design criteria development.
- **Construction Management / CEI** – Constructability and cost/schedule support during design; bid support; construction administration and inspection services; submittal/RFI management and closeout support.

LEADERSHIP TEAM

A team is only as strong as the people assigned to the work. We stand ready to hit the ground running with exceptional leadership, similar experience, innovative ideas, and valuable City knowledge. We provide a full service, committed team of professionals who recognize and understand the key priorities and offer a broad range of engineering services necessary to achieve the City's goals. **We are 100% committed to delivering on time and within budget.**



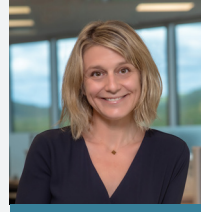
Cristina Ortega, PE, ENV SP
 Principal-in-Charge
 Doral, FL



Alex Vazquez, PE, CFM
 Project Manager
 Doral, FL



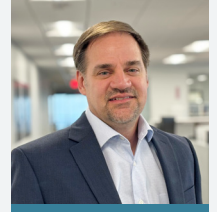
Will Suero, PE
 QA/QC Officer
 Fort Lauderdale, FL



Julie Stein, ENV SP, LEED AP
 Stormwater Technical Advisor
 New York, NY



Emilio Corrales, PE
 Roadway Technical Advisor
 Doral, FL



Mike Rudisell, PE
 Pump Station Technical Advisor
 Columbus, OH



Juliana Ortiz, PE
 Lead Roadway Engineer
 Doral, FL



Giancarlo Peña, PE
 Lead Stormwater Engineer
 Doral, FL



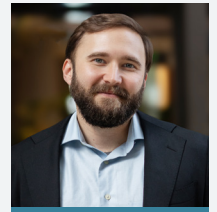
Samantha La Hée, PE
 Lead Mechanical/Pump Station
 Doral, FL



David Romano, PE
 CEIS
 Fort Lauderdale, FL



Ken Huntington
 Permitting
 Orlando, FL



Alex Miller, PE, CFM, ENV SP
 H&H Modeling
 Tampa, FL

LOCAL PRESENCE

Our dynamic and integrated team lives here and works here. Over 95% of our proposed personnel on the organizational chart are based in Florida. We strive to add value to our local communities by solving tough challenges and inspiring positive change. HDR maintains over 150 staff in our Doral, West Palm Beach and Fort Lauderdale offices, with support from additional offices throughout Florida and the US. We emphasize communication and responsiveness on all of our projects and work in partnership with our clients to meet each community's needs.

HDR Florida
 Practice Opened In
1974

9 offices
800+ staff
 Providing you with
 local expertise and delivery

HDR's Office Locations

16 MILES
 Fort Lauderdale

23 MILES
 Hollywood

HDR



Tab C

FIRM QUALIFICATIONS
AND EXPERIENCE

QUALIFICATIONS AND EXPERIENCE

Who We Are

HDR has been partnering with clients to shape communities since 1917. We are an integrated, multidisciplinary firm specializing in a full range of planning, engineering, architecture, construction, and financial services. We offer a team for this project that can handle all facets and complexities of the design in-house and in a streamlined approach.

Industry Experts in Flood Mitigation

In essence, this project is a flood mitigation project that will set up the City for long-term resiliency against our changing climate. At HDR, we are leading state and national discussions around flood risk reduction and regularly provide technical workshops and recommendations to Congress, FEMA and the USACE.

The design of neighborhood flood improvement projects involves many areas where we excel as a company. **HDR is currently leading the design of similar projects around the state, including three within the City of Fort Lauderdale. Each of these projects includes similar elements of gravity storm drain improvements, new stormwater pump stations and force main outfalls, roadway improvements, and planning for long-term flood resiliency.** These projects can be complex due to their multidisciplinary nature, civil, mechanical, and architectural designers of different backgrounds often work in parallel to meet project goals and schedules. At HDR, we offer teams with the history and experience of working together to deliver projects of all sizes, and we look forward to continuing this approach with the Pump Station #16 project.

A Strong, Multidisciplinary Team

We have the technical experience and capacity to deliver a successful project within the proposed timeline. HDR has assembled a team that includes a wide range of secondary services that can benefit this resiliency project, including funding specialists, resilience specialists, graphics & visualization personnel, Envision sustainability professionals, landscape architecture, and public outreach professionals who routinely work together to deliver high-quality engineering designs. Our team has a deep bench of experts, enabling us to advance multiple tasks in parallel and enhancing our ability to deliver your project on schedule and within budget.



HDR provides professional services for stormwater master planning, modeling, and design implementation services for the Dorsey-Riverbend, Progresso Village, and Melrose Manors neighborhoods in Fort Lauderdale. Neighborhood drainage improvements included roadway and right of way improvements, stormwater pump station, grassed swale restoration, replacing standard pavements with permeable pavement, sidewalk reconstruction, and minor roadway re-grading.

Innovation and Creativity

Together with the City, we will bring innovation to resolve flooding problems and create a more resilient City. Our team has first-hand experience working with schedule-driven, grant-funded reporting requirements and constraints. We have developed tools that identify additional funding opportunities based on the project drivers including coastal resilience and flood management.

Our recent work on the Monroe County Roadway Vulnerability Analysis is an example of this. We utilized ArcGIS Online tools to create a prioritization framework for determining a street’s vulnerability to flood hazards. Hazards we are evaluating include future SLR, tidal waves, storm surge, and extreme weather analysis projections (2025, 2030, 2035, 2040, 2045, 2060, and 2100). Adaptation improvements, such as raising the roadways, improving the storm drain system, or implementing green stormwater infrastructure, will then be conceptualized. We are excited to bring this experience to Hollywood to determine which roadway improvements provide the most resilience and cost-benefit to the neighborhood.

Roadway Access and Safety

While the focus of the project is stormwater improvements, including a new stormwater pump station, it will be critical to keep additional focus on project impacts to roadway access for automobiles, cyclists and pedestrians. Both during and after construction, safe and reliable mobility will be of utmost importance. HDR's experience in our transportation group brings expertise to this critical project element. We are passionate about safety and mobility and will use this lens for this project to determine what mobility improvements could be included with any roadway elevation changes.

Public Outreach and Engagement Builds Understanding and Support

Together with Heather Leslie, Principal of HML Public Outreach, the team's outreach approach supports the City's goals to reduce flood risk and address sea level rise through inclusive, milestone-driven engagement. Our strategy is tailored to the unique character of each neighborhood and emphasizes clear, bilingual communication at key points in the design process.

Our team has the expertise and personnel to assist the City in proactive community outreach to engage the community regarding the necessity of this project and the much-needed benefits the project will bring. Due to the historic flooding particularly in this area of the City, residents are keenly aware of the issues. While they will welcome improvements to the flooding, there will be a strong need for outreach related to the location, aesthetics, noise, and disruption caused during construction.

Funding Solutions

HDR's funding specialists have helped clients secure and manage low-interest loans and grants across a multitude of funding programs for municipalities and utilities. We are prepared to use this expertise to assure the Pump Station #16 project considers all funding options.

We have developed a successful approach for preparing grant applications, including strategy, evaluation and positioning for federal and state grant and loan opportunities. We can also support and assist with grant preparation and documentation. We also provide assistance and analysis of the availability of new and existing funding sources, from fares to cost allocation policies. We review current sources as well as best practices to enhance funding while maximizing the



In Monroe County, we developed prioritization areas for roadway improvements based on their increasing flood risk. For Shore Acres, a similar framework would provide value to the process of determining which streets should be raised.

benefits to internal and external stakeholders. There are options for funding, including Resilient Florida and FEMA BRIC grants, that we look forward to discussing for this project.

Sustainability

We are building the future today, and HDR applauds the City's efforts to include sustainable measures into each project. HDR shares this passion for sustainable infrastructure. We have over 125 registered Envision Sustainability Professionals (ENV SPs) - including Cristina Ortega, Alex Miller, Julie Stein, Courtney Arena, and Sharon Wright - on this project team. HDR has worked on 23 Envision-verified projects of all verification levels.

Permitting

This project will trigger all three levels of governmental permits - federal, state, and local. Our experienced permitting team knows what the agencies need to maneuver the permitting process as efficiently as possible.

HDR believes in a collaborative approach with regulatory agencies, engaging them early in the project and fostering a close relationship throughout the process to accelerate the approval of permits and prevent the unexpected.

Our permitting leads have long-standing relationships with agencies, including SFWMD, FDEP, Broward County, City of Hollywood, and the U.S. Army Corps of Engineers, and are on the forefront of recent changes to the F.A.C. 62-330 and shift of 404 jurisdiction back to the Corps. Our team will complete an in-depth review of the project’s requirements and develop a comprehensive strategy to meet your project’s needs, which provides you with:

- A refined design that minimizes and avoids impacts
- Compliance reflected in design documents
- Accelerated permitting process
- Early agency coordination and buy-in

Quality Assurance/Quality Control

Quality is always important at HDR; the technical delivery of this project will meet our highest standards. To achieve these goals, HDR has developed a Quality Management System (QMS) based on the principles and guidelines set forth by the ISO 9001:2015 international standard for quality management.

The QMS includes programs, policies, and business processes that adhere to client and local, state, and federal guidelines. We perform quality reviews throughout the project to facilitate communication. Our QMS utilizes the data, reports, and figures captured through project controls and our project management plan. We believe managing the quality of deliverables is essential to minimizing cost and schedule overruns.

Construction Observation and Management

HDR has performed construction management and inspection services on thousands of projects throughout the United States during the company’s 109 years of existence. HDR has more than 1,600 construction management and inspection professionals available to support projects of any size or complexity. For the City of Hollywood stormwater flood mitigation improvements project, our team brings the construction-phase support needed to successfully deliver the planned upgrades to the stormwater collection and conveyance system, pump station facilities, associated electrical/controls, and related site/civil improvements.

Our experience across the country demonstrates a wide range of project types, funding models, and construction services that HDR has successfully managed. These projects include stormwater pump station construction and upgrades, drainage improvements, utility relocations, structural retrofits, and mechanical/electrical system replacements. Our team will help address contractor inquiries, issue addenda as needed, and assist in evaluating bids to support the selection of a qualified contractor. HDR has a strong and knowledgeable background in construction-related services, providing the depth of experience required to perform construction observation, respond to contractor questions, and verify that project elements are built in accordance with the approved plans and specifications. We are fully prepared to support any construction phase role desired by the City.

HDR's CM/CE&I snapshot



#11 Top 50 Program Management Firms



#8 Top 20 Firms in Combined Design and CM/PM

>\$70B CEI/CM projects worldwide (construction value)



Providing CM/CE&I services for more than

40 years



3,800 CEI/CM projects worldwide

600 Active CEI/CM projects worldwide

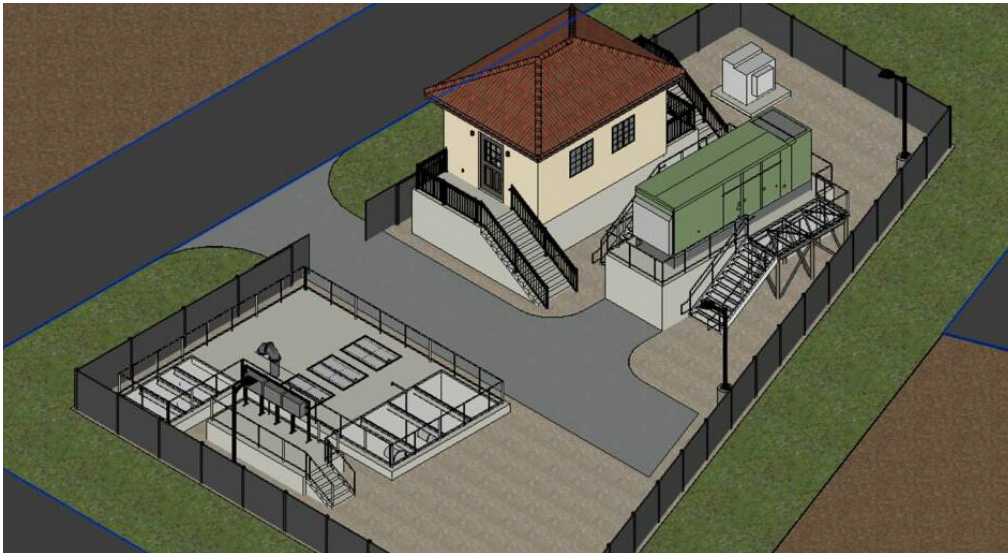
1,600 Construction professionals worldwide



SAMPLE STORMWATER PUMP STATION EXPERIENCE

As detailed below, HDR has extensive experience with delivering projects similar to Pump Station #16.

	Stormwater Pump Station Capacity (CFS)	Construction Cost	Funding	Coastal	Stormwater Force main	Permitting/Env. Permitting	Modeling	Limited Footprint	Roadway Improvements	Low Impact Developments (LID)	Resilient Design
Melrose Manors Neighborhood Stormwater Improvements City of Ft. Lauderdale, FL	76	\$170M	■	■	■	■	■	■	■	■	■
Progresso Village Neighborhood Stormwater Improvements City of Ft. Lauderdale, FL	36	\$55M	■	■	■	■	■	■	■	■	■
Dorsey-Riverbend Neighborhood Stormwater Improvements City of Ft. Lauderdale, FL	27	\$34M	■	■	■	■	■	■	■	■	■
FDOT District 6 Indian Creek Drive Miami Beach, FL	100	\$39M	■	■		■			■		■
SFWMD/USACE C-23/24 South Reservoir Project St. Lucie County, FL	1,200	\$550M	■		■	■	■				
FDOT S. Roosevelt Stormwater Pump Station Key West, FL	45	\$4M		■	■	■	■	■	■		■
North Shore D Neighborhood Improvements Miami Beach, FL	220	\$150M		■		■	■		■		■
FDOT Alton Rd Stormwater PS (5th, 9th and 14th St) Miami Beach, FL	80	\$6M		■	■	■	■	■	■		
City of Miami Shorecrest Stormwater PS, FL	90	\$9M		■	■	■	■	■	■		■
C-44 Reservoir/Stormwater Treatment Area (STA) Project SFWMD Indiantown, FL	1,100	\$500M	■		■	■	■				
North Bay Village Stormwater Pump Station North Bay Village, FL	45	\$6M		■	■	■	■	■	■		■
FDOT Harding Ave Stormwater PS (86th and 94th St) Surfside, FL	40	\$3M		■	■	■	■	■			
Hillsborough Co. Donut Pond Pump Station Tampa, FL	100	\$19M			■	■	■	■			
Able No. 3 Stormwater Pump Station City of Dallas, TX	1,850	\$75M	■		■	■	■	■			■
Cedar River Flood Mitigation, NewBo/Lot 44 Pump Station Cedar Rapids, IA	96	\$6M			■	■	■			■	
Rowan CSO Tunnel Dewatering PS and Return Sewer Louisville/Jefferson Co MSD, KY	62	\$26M				■	■	■	■		■
Logan CSO Basin & PS Louisville MSD, KY	31	\$50M			■	■	■		■		■
Nightingale Basin & PS Louisville MSD, KY	51	\$33.5M			■	■	■	■	■		■
Carrier Bridge Pump Station Asheville, NC	77	\$50M				■		■			
Cedar Rapids 3rd Ave Stormwater PS USACE, IA	60	\$5M			■		■	■			
Peachtree/North Fork Storage & PS Atlanta, GA	116	\$150M	■			■	■	■	■		■
Paddy's Run Pump Station Louisville/Jefferson County MSD, KY	2,940	\$230M	■			■	■	■	■		■
Cedar River Flood Mitigation, Sinclair Pump Station & Detention Basin Cedar Rapids, IA	20	\$4M			■	■	■			■	
Cedar River Flood Mitigation, NewBo/Lot 44 Pump Station Cedar Rapids, IA	96	\$6M			■	■	■			■	



Melrose Manors Neighborhood Stormwater Improvements

City of Fort Lauderdale

Fort Lauderdale, FL

HDR is leading the design and implementation of a comprehensive stormwater management system for the 640-acre Melrose Manors neighborhood, which currently lacks stormwater infrastructure and has no positive outfall to a receiving water body. This deficiency has resulted in recurring flooding and poor drainage throughout the area. To address these challenges, HDR is developing a stormwater solution that integrates both surface and subsurface improvements to enhance flood protection, promote infiltration, and improve water quality.

Planned improvements include grassed swales, pervious surfaces, and green infrastructure features to manage runoff at the surface. Subsurface components will consist of new drainage pipelines, exfiltration trenches, and water quality

treatment structures. The system will also include two high-capacity pump stations, each rated at 15,850 GPM, to provide the necessary outfall and reliable stormwater conveyance during heavy rain events.

Each pump station site will be equipped with a standby emergency generator and an electrical building elevated above base flood levels, designed in accordance with all applicable flood elevation requirements, to maintain critical operations during extreme weather and high-water conditions. HDR's scope of work includes data collection, final design, permitting support, bidding assistance, and construction phase services, delivering a turnkey solution that strengthens flood resilience and long-term infrastructure performance in the Melrose Manors community.

STAFF INVOLVED

Alex Vazquez Project Manager	Julie Stein Technical Advisor
Giancarlo Peña Lead SE	Matt Dieffenthaler Pump Stations & Pipelines
Samantha La Hée Lead MEP	Mark Vincent Electrical
Kevin Might Landscape Architect	Mike Romot Architecture
Alex Miller H&H Modeling	Courtney Arena Environmental
Zaine Arth H&H Modeling	Ken Huntington Permitting
Bruce Bradley Structural	Richard Littlefield GIS
Jorge Camacho Agency Coordination	

KEY FEATURES/SERVICES

- Design Engineering
- Road Reconstruction
- Design Development
- Construction Documents Dev.
- Bidding
- Construction Admin.
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Force Main
- Underground Drainage Injection Wells
- Sidewalks
- Curb & Gutter Structures
- Geotechnical Services
- Utility Coordination
- Utility Relocation
- Permitting
- Public Outreach
- Landscape Architecture



Progresso Village Neighborhood Stormwater Improvements

City of Fort Lauderdale

Fort Lauderdale, FL

HDR is leading the design and implementation of stormwater improvements for the 300-acre Progresso Village neighborhood, one of several highly urbanized, flood-prone areas within the City's 23,000-acre municipal boundary. The City's low-lying topography, aging infrastructure, tidal surges, and seasonal high-intensity storms make it particularly vulnerable to severe flooding.

To address these challenges, HDR designed a comprehensive stormwater system that includes approximately 21,000 linear feet of new stormwater pipes ranging from 18 to 72 inches, 100 new drainage structures, a 16,200 GPM pump station, and 1,200 linear feet of exfiltration trenches with associated water quality structures. Additional improvements include a

30-inch DIP force main that discharges to the North Fork of the New River, dry retention swale reconstruction, water and sewer line relocations, driveway and sidewalk rebuilds, pavement restoration, tree trimming, and landscaping enhancements.

HDR's role has included data collection, final design, permitting support, and bid-phase services completed in 2024. Construction began in 2025. This project is part of the City's broader effort to modernize aging stormwater systems and reduce flood risk in vulnerable neighborhoods.

STAFF INVOLVED

Alex Vazquez Project Manager	Jorge Camacho Agency Coordination
Giancarlo Peña Lead SE	Will Suero QA/QC
Samantha La Hée Lead MEP	Julie Stein Technical Advisor
Kevin Might Landscape Architect	Mike Rudisell Technical Advisor
Alex Miller H&H Modeling	Matt Dieffenthaler Pump Stations & Pipelines
Zaine Arth H&H Modeling	Mark Vincent Electrical
Bruce Bradley Structural	Mike Romot Architecture
Chris Work MEP	
Matt Davis Instrumentation	

KEY FEATURES/SERVICES

- Design Engineering
- Road Reconstruction
- Design Development
- Construction Documents Dev.
- Bidding
- Construction Admin.
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Force Main
- Underground Drainage Injection Wells
- Sidewalks
- Curb & Gutter Structures
- Geotechnical Services
- Utility Coordination
- Utility Relocation
- Permitting
- Public Outreach
- Landscape Architecture



Dorsey-Riverbend Neighborhood Stormwater Improvements

City of Fort Lauderdale

Fort Lauderdale, FL

The City of Fort Lauderdale is implementing major stormwater infrastructure upgrades in the Dorsey-Riverbend neighborhood to reduce street flooding and improve stormwater runoff management across the 200-acre community. HDR designed a comprehensive new stormwater system that includes gravity pipelines, exfiltration trenches, water quality treatment structures, a force main, and a 10,800-gallon-per-minute (GPM) pump station located at 515 NW 15th Avenue. The system collects stormwater at the pump station and conveys it through a new 72-inch pipeline and outfall to the North Fork New River.

Situated within a residential neighborhood, the pump station site was designed with sensitivity to its surroundings. To preserve the community aesthetic, the electrical building features a Spanish Colonial architectural style, complete with faux doors and windows, a terracotta tile

roof, decorative stairs, and ornamental railing. The electrical building, generator, and transformer are all elevated 1.5 feet above the base flood elevation for flood protection. Submersible pumps are housed in a below-grade wet well, and on-site catch basins, drainage pipes, and swales help manage site runoff and prevent discharge to adjacent properties. Additional surface improvements include approximately 1,000 linear feet of exfiltration trenches, grassed swales, and pervious surfaces to promote infiltration and water quality. Low-maintenance Florida-native landscaping enhances the site, featuring cocoplum shrubs, live oak and silver buttonwood trees, and a decorative 6-foot vinyl fence for privacy and security.

HDR provided data collection, final design, permitting support, bidding assistance, and is currently delivering construction management services for the project, which began construction in 2024.

STAFF INVOLVED

Alex Vazquez Project Manager	Matt Davis Instrumentation
Giancarlo Peña Lead SE	Andrew Craft CEIS
Samantha La Hée Lead MEP	Angel Martinez CEIS
Kevin Might Landscape Architect	Michael Schmedt GIS
Alex Miller H&H Modeling	Richard Littlefield GIS
Zaine Arth H&H Modeling	Jorge Camacho Agency Coordination
Imtyazahmad Shaikh Drainage	Peter Bredehoeft Cost Estimating
Bruce Bradley Structural	James Reddrick Architecture
Chris Work MEP	Ken Huntington Permitting

KEY FEATURES/SERVICES

- Design Engineering
- Road Reconstruction
- Design Development
- Construction Documents Dev.
- Bidding
- Construction Admin.
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Force Main
- Exfiltration Trenches
- Sidewalks
- Curb & Gutter Structures
- Geotechnical Services
- Utility Coordination
- Utility Relocation
- Permitting
- Public Outreach
- Landscape Architecture



Indian Creek Drive Drainage Improvement Project

FDOT District 6

Miami Beach, FL

SR A1A/Indian Creek Drive from 26th Street to 41st Street in the City of Miami Beach (City) was experiencing severe flooding that was greatly intensified by the ever increasing level of high tide events. To address this flooding condition, FDOT and The City entered in an agreement to raise this segment of Indian Creek Drive 12" average by reconstructing the roadway. The project included construction of a seawall with bulkhead sets at an elevation of 5.70' NAVD, a pump station at 32nd Street with an outfall to Indian Creek,

a 72" storm sewer pipe along Indian Creek Drive to collect all the runoff, barrier walls on the west side, signing and pavement markings, signalization, and lighting.

Per the agreement, FDOT shared the cost of the project and the City administered the design and construction. HDR was retained by FDOT as an Owner's Representative to review the plans and documents to verify that FDOT standards were met during design and construction.

STAFF INVOLVED

Samantha La Hée
Lead MEP

Kevin Might
Landscape Architect

Bruce Bradley
Structural

Hugo Gutierrez
Roadway

Imtyazahmad Shaikh
Drainage

Giancarlo Peña
Lead SE

Ken Huntington
Permitting

Cristina Ortega
Project Engineer

Heather Leslie
Public Outreach

KEY FEATURES/SERVICES

- Design Engineering
- Road Reconstruction
- Design Development
- Construction Documents Dev.
- Construction Administration
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Sidewalks
- Utility Coordination
- Pavement Markings
- Permitting
- Lighting/Signalization



Key West 1st Street Drainage Study

Monroe County

Monroe County, FL

Recently, Monroe County improved the 1st Street drainage basin in Key West by relocating catch basins to low areas to better facilitate the capture of stormwater runoff and by reconstructing the road with asphalt base. However, now with access to newer information about sea level rise (SLR) projections, the County is concerned that these recent stormwater system improvements in the drainage basin may not be sufficient to accommodate future conditions, since previous hydrologic/hydraulic modeling efforts of the drainage basin (done by others in 2018) did not factor high tides and SLR.

At the request of Monroe County, HDR provided a drainage study to validate the results of a previous drainage study which determined that the existing 1st Street gravity drainage system in Key West would still function adequately without needing a pump station. As part of this study, HDR reviewed the previous drainage study, created an existing condition hydrologic/hydraulic model for the 1st Street drainage basin, ran future condition scenarios (2045 SLR and high tide) for a pump station, recommended conceptual pump station sizing and locations, recommended conceptual forcemain and injection well configuration, and developed a cost estimate for up to three (3) conceptual design alternatives.

STAFF INVOLVED

Emilio Corrales
Technical Advisor

Alex Miller
H&H Modeling

Zaine Arth
H&H Modeling

Melisa Valencia
Resilience

KEY FEATURES/SERVICES

- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Utility Coordination
- Underground Injection Wells



South Roosevelt Blvd./SR-A1A Stormwater Pump Station Design

Monroe County

Monroe County, FL

South Roosevelt Blvd./State Road A1A (the Project) is the southernmost state-designated highway of the United States. It directly fronts the Atlantic Ocean on the south, hotels/apartments to the north, and is designated as the Atlantic 1 Alternate (A1A) Scenic and Historic Coastal Highway.

The project scope includes milling, overbuild and resurfacing, reconstruction of the promenade, three new pedestrians crossing with HAWK, the addition of retaining wall at two locations where none currently exists, and upgrade signing and pavement markings.

Alex was the Engineer of Record for the stormwater management and drainage design for this project. The stormwater management system will include a 24,000 GPM stormwater pump station with a vortex pollution control structure downstream of the pump station and 12 drainage injection wells downstream of the pump station with an emergency bypass structure. The pump station will have a diesel emergency generator on an elevated platform.



STAFF INVOLVED

Alex Vazquez
Project Manager

KEY FEATURES/SERVICES

- Design Engineering
- Road Reconstruction
- Construction Documents Dev.
- Bidding
- Construction Admin.
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Force Main
- Drainage Injection Wells
- Exfiltration Trenches
- Sidewalks
- Curb & Gutter Structures
- Striping
- Roadway Signage
- Geotechnical Services
- Utility Coordination
- Permitting
- Landscape Architecture



Winston Waterways Design & Permitting

Monroe County

Monroe County, FL

Monroe County is one of the most vulnerable communities in the United States to the impacts of sea level rise. With a 120-mile-long archipelago of low-lying islands, the region experiences some of the highest tidal flooding risks in the country. In response to these challenges, Monroe County launched the Roadway Vulnerability Analysis and Capital Plan Project in 2019. This initiative assessed the flood vulnerability of unincorporated county roadway segments impacted by sea level rise (SLR) and King Tide conditions. The primary goal was to prioritize future resiliency projects based on risk exposure. The study identified eighty-two priority roadway project locations, with the Winston Waterways Road Elevation and Stormwater Design Project ranked among the most critical.

The Winston Waterways Project includes nineteen (19) individual streets totaling approximately 2.6 miles in length. Currently, there is no existing stormwater management or drainage infrastructure within the Winston Waterways project area, further underscoring the urgency and necessity of this improvement effort.

The scope of work includes:

- Reconstruction and elevation of existing roadways;
- Installation of a stormwater management system, including a collection system, treatment units, pump station, and disposal infrastructure;
- Coordination and relocation of utilities as necessary;
- Coordination with adjacent property owners for easement acquisition;
- Harmonization of improvements with private properties; and
- All other improvements necessary to provide a resilient and functional roadway system.

HDR is the prime consultant for this project and is responsible for the roadway design, traffic control plan (TCP), Signing and Pavement Marking (S&M), and the project cost estimate.

STAFF INVOLVED

Juliana Ortiz
Lead Roadway Engineer

Will Suero
QA/QC Officer

Emilio Corrales
Technical Advisor

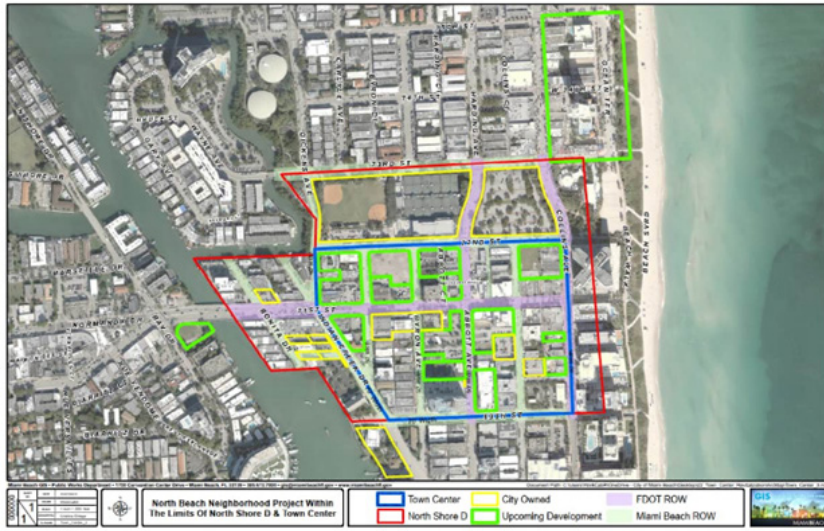
Nicolas Hoyos
Utility Coordination

Ken Huntington
Permitting

Richard Littlefield
GIS

KEY FEATURES/SERVICES

- Design Engineering
- Road Reconstruction
- Design Development
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Force Main
- Underground Injection Wells
- Pavement Markings
- Striping
- Roadway Signage
- Geotechnical Services
- Utility Coordination
- Permitting
- Public Outreach



North Shore D Neighborhood Improvements

City of Miami Beach

Miami Beach, FL

North Shore D project, which includes 73rd Street to the north, Collins Avenue to the east, 69th Street to the south and Indian Creek/Dickens Avenue to the west. Boundaries also includes the portion along 71st Street between Indian Creek Drive and Bonita Drive. The intent of this project is to address the risk of current and future flooding, compounded by future sea level rise, by adapting the roads and stormwater drainage systems in and around the North Beach Town Center (Zone TC-C), in areas that are currently prone to frequent flooding by tidal and rain events. This project will improve community resilience, business

continuity and quality of life by increasing the capacity of the stormwater conveyance and treatment system for the entire basin, including new stormwater drainage pipes, stormwater pump(s), water quality wells and other new treatment systems. In addition, the project will address improvements to the potable and fire water distribution system and the sanitary sewer system within the affected areas of the neighborhood. The project will address streetscape and landscape design to improve neighborhood aesthetics and the urban canopy.

STAFF INVOLVED

Alex Vazquez
Principal-in-Charge

Giancarlo Pena
Project Manager

Courtney Arena
Environmental

Nicolas Hoyos
Utility Coordination

Ken Huntington
Permitting

Waruna Jayasooriya
Transportation Engineer

Javier Manso
Transportation Engineer

Kevin Might
Landscape Architect

Juliana Ortiz
Roadway Engineer

KEY FEATURES/SERVICES

- Design Engineering
- Road Reconstruction
- Design Development
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Utility Coordination
- Sea level rise adaptation



Monroe County Infrastructure Vulnerability Analysis and Capital Plan

Monroe County

Monroe County, FL

Ranking among the highest areas in the country for impacts of tidal flooding, Monroe County is among the most vulnerable communities in the nation to rising sea levels with a 120-mile archipelago of islands, most of which are at or near sea level. The County is well aware that being a coastal community, exposes the population to long-term sea level rise (SLR) risks including public infrastructure and natural habitats within these highly vulnerable zones. They understand that actively protecting infrastructure to confirm continuity of public services will lead to a competitive advantage across economic, built, and natural environments as climate change makes a progressively greater impact on the region.

This project combines climate change science and modeling with engineering and planning to develop a long-term roadway corridor adaptation plan based on design criteria, SLR projections, adaptation methodology, policy/

financing evaluation, and public/stakeholder outreach. The primary objective of this project is to analyze the impacts of current and projected levels of SLR and develop an implementation plan and timeline to adapt for SLR. The results will be used to determine new policy considerations, design criteria, and the acceptable levels of service.

HDR is evaluating future SLR, tidal waves, storm surge, and extreme weather analysis projections (2025, 2030, 2035, 2040, 2045, 2060, and 2100) to determine the vulnerability level and prioritize the implementation of the adaptation improvements (e.g., raising the roadway, improving storm drain system, and green engineering). We will develop mitigation concept plans, cost estimates, and benefit cost analysis for the most critical segments. An Adaptation Plan will be developed based on the multiple criticality components evaluated throughout the life of the project.

STAFF INVOLVED

- Emilio Corrales**
Roadway
- Hugo Gutierrez**
Roadway
- Melisa Henriquez Valencia**
Roadway
- Richard Littlefield**
GIS
- Juliana Ortiz**
Roadway
- Michael Schmedt**
GIS
- Sharon Wright**
Resilience

KEY FEATURES/SERVICES

- Road Reconstruction
- Drainage Improvements
- Stormwater Pump Station
- Sidewalks
- Public Outreach & Involvement



Stillwright Point Road Elevation and Stormwater Project

Monroe County

Key Largo, FL

The project area includes approximately 9,000 linear feet of pavement of design for construction and any required permitting for elevating specified roadways, resurfacing/reconstruction, and drainage system improvements in the Stillwright Point Community.

The project includes the design for construction and any required permitting of a gravity stormwater management and pretreated pressurized closed system. Meetings and coordination with environmental regulatory agencies such as Florida Department of Environmental Protection (FDEP), South Florida Water Management District (SFWMD), U.S. Army Corps of Engineers (USACE), and the Florida Keys National Marine Sanctuary (FKNMS) during design phase will be conducted.

Deliverables include the preparation of Construction Contract plans with Specifications.

The HDR scope of work consists of roadway geometric design, signing & pavement marking, utility coordination, maintenance of traffic (MOT), and miscellaneous structural design.

The roadway improvements consist of raising the roadway to target edge of pavement elevation requiring design of the vertical profile and establishing the appropriate roadway typical sections that enables accessibility, is resilient against area flooding, and also meets applicable roadway design criteria and standards. Design also included the provision of driveway/turnout restoration and harmonization details. The design of the vertical profile and determination of the roadway low points was established for the location for the location of the proposed drainage system and proactive utility coordination was conducted to establish corresponding relocation, adjustments, and application of utility conflict structures.

The MOT is constrained by right-of-way, two-lane streets, and dead-end streets, nonetheless, the team designed a safe and effective Traffic Control Plan to move vehicular and pedestrian traffic during all phases of construction.

STAFF INVOLVED

Juliana Ortiz
Lead Roadway Engineer

Emilio Corrales
Technical Advisor

Nicolas Hoyos
Utility Coordination

Waruna Jayasooriya
MOT/TCP

KEY FEATURES/SERVICES

- Design Engineering
- Road Reconstruction
- Design Development
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Force Main
- Underground Injection Wells
- Pavement Markings
- Striping
- Roadway Signage
- Geotechnical Services
- Utility Coordination
- Permitting
- Public Outreach



Stormwater System Condition Assessment

City of West Palm Beach

West Palm Beach, FL

Expedited the completion of over 6,000 linear feet (LF) of the City's priority stormwater infrastructure rehabilitation projects, as outlined in the City's Stormwater Master Plan (published October 2016). HDR developed criteria and technical specifications for stormwater pipe rehabilitation for the most commonly utilized rehabilitation methodologies for South Florida, including the development of a decision model to assist with the selection of these remediation methodologies. HDR also provided technical guidelines for addressing typical activities associated with storm sewer rehabilitation, including guidelines for bypass pumping, plugging, jet/pressure cleaning, directional drilling, and coffer damming (outfalls).

Specifically, this project reduced the City's maintenance costs and renewal of stormwater assets by (1) defining appropriate methods for remediation of stormwater assets and developing strategies to procure stormwater inspection and rehabilitation contracts more efficiently and (2) providing the foundation for the implementation of a defensible, reproducible, and comprehensive long-term stormwater asset condition assessment and risk mitigation program.

STAFF INVOLVED

Heath Hardy
Project Engineer

KEY FEATURES/SERVICES

- Design Engineering
- Design Development
- Construction Documents Dev.
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Permitting



S-28 Forward Pumping Station and Structure Replacement

South Florida Water Management

Miami Shores, FL

The existing S-28 structure is located in the Village of Miami Shores between the Florida East Coast Railway Bridge and Northeast 107th Street and on the Miami Shores Country Club golf course, about a mile from the shore of Biscayne Bay. The structure spans across the C-8 Canal, which bisects the northeastern portion of the golf course. S-28 was constructed in 1954 and consists of two (2) 17.5-foot high by 27.8-foot wide gates, with discharge controlled by an electric-driven cable drum-operated vertical lift system. Due to its age and changing conditions, such as sea level rise and climate change, the structure can no longer provide adequate flood protection and maintain basin discharge levels.

The South Florida Water Management District (District) has performed a Flood Protection Level of Service (FPLOS) evaluation of the C-8 Basin and has recommended that the existing S-28 be replaced with a new, more robust three-bay gate structure designed for the same discharge capacity of 3,220 cubic feet per second (cfs) and a 673,247 GPM forward pump station. The new gate structure and forward pump station

combination is known as S-28N. In addition to this replacement, flood risk reduction barriers and nature-based solution features will be constructed along the canal banks downstream of the structure and pump station.

The scope of work (SOW) includes project management services, geotechnical investigations, topographical and boundary surveys, engineering design for the new gate structure, pump station, trash rakes, control building, site access, canal widening, flood risk reduction barriers, landscaping, and other necessary site-civil improvements. Hydraulic modeling, consisting of 3-dimensional computational fluid dynamics (CFD) and 2-dimensional simulations will be developed for the gate structure and pump station combination. The calculations, technical memoranda, opinion of probable construction costs (OPCC), construction plans, and specifications are all included in the design contract. The construction plans and specifications are to be developed to the Ready-to-Advertise (RTA) level of completeness.

STAFF INVOLVED

Alex Vazquez Project Engineer	Zaine Arth H&H Modeling
Courtney Arena Environmental	Javier Manso Project Engineer
Javier Manso Transportation Engineer	Mike Rudisell Project Engineer
Kevin Might Landscape Architect	Andrew Craft CEIS
Mike Romot Architect	
Chris Work MEP	
Samantha La Hée MEP	
Alex Miller H&H Modeling	

KEY FEATURES/SERVICES

- Design Engineering
- Design Development
- Construction Documents Dev.
- Bidding
- Construction Admin.
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Force Main
- Geotechnical Services
- Utility Coordination
- Permitting
- Public Outreach
- Landscape Architecture



C-44 Stormwater Pump Station

South Florida Water Management District

Indiantown, FL

The S-401 Pump Station project includes the design and construction of a 1,100 cubic feet per second (cfs) fully functional, high-speed lift pump station to provide water from the C-44 Canal to the C-44 Reservoir via the C-44 Intake Canal (C-400). The C-44 Pump Station is an approximate 21,000-square-foot, concrete, 3-story pump station building with four 3-phase, medium-voltage electrical, high-head lift, 275-cfs pumps, and all associated engines, equipment, and controls to be operated locally and remotely with four 78-inch discharge pipes buried under the pump station building discharging into the reservoir.

HDR was responsible for the full design of this turn-key manned facility. Services included, but were not limited to:

- Determining the proper location of the pump station adjacent to the Reservoir embankment and associated geotechnical investigation.
- Water budget and operational analyses to verify the appropriate pump station capacity to achieve all project goals.
- Cost-benefit analysis to evaluate the appropriate type of pump driver from electrical, diesel, and natural gas.

- Complete design of all mechanical, structural, architectural, civil, plumbing, sanitary, heating/ventilation/air conditioning (HVAC), electrical, instrumentation and controls (I&C), security, and communications elements of the Pump Station.

Design efforts had to meet the requirements of two client partners – SFWMD and USACE – as they determined which partner would be the lead and had the resources to construct.

HDR was also responsible for providing Engineering During Construction (EDC) services including on-site field representation, review of construction documents, recommendations on contractor proposed design changes, design modifications and enhancements per SFWMD's direction, and certifying the project at the end of construction with signed and sealed record drawings based on the contractor's as-builts. Directed design modifications during construction included fully developing a design to provide water to the C-44 STA directly from the C-44 Pump Station until the C-44 Reservoir construction by the USACE was completed and operational.

STAFF INVOLVED

Alex Miller
H&H Modeling

Zaine Arth
H&H Modeling

Chris Work
MEP

Andrew Craft
CEIS

Angel Martinez
CEIS

KEY FEATURES/SERVICES

- Design Engineering
- Road Reconstruction
- Construction Documents Dev.
- Drainage Improvements
- Stormwater Modeling
- Stormwater Pipe Conveyance
- Stormwater Pump Station
- Geotechnical Services
- Utility Coordination
- Utility Relocation
- Permitting
- Public Outreach
- Landscape Architecture



State of Florida Registration

HDR Engineering, Inc.

**State of Florida
Department of State**


I certify from the records of this office that HDR ENGINEERING, INC. is a Nebraska corporation authorized to transact business in the State of Florida, qualified on June 20, 1985.


The document number of this corporation is P06487.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on November 10, 2025, and that its status is active.

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

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Seventh day of January, 2026





Secretary of State

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LICENSEE DETAILS

License Information

Name:	HDR ENGINEERING, INC. (Primary Name)
Main Address:	1917 S. 67TH STREET OMAHA, Nebraska 68106
County:	OUT OF STATE

License Information

License Type:	Engineering Business Registry
Rank:	Registry
License Number:	4213
Status:	Current
Licensure Date:	08/16/1985
Expires:	

Special Qualifications Qualification Effective

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Alternate Names

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HML Public Outreach LLC


**State of Florida
Department of State**

I certify from the records of this office that HML PUBLIC OUTREACH LLC is a limited liability company organized under the laws of the State of Florida, filed on April 20, 2010.

The document number of this limited liability company is L10000042405.

I further certify that said limited liability company has paid all fees due this office through December 31, 2026, that its most recent annual report was filed on January 5, 2026, and that its status is active.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifth day of January, 2026





Secretary of State

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Events **No Name History**

Detail by Entity Name

Florida Limited Liability Company
HML PUBLIC OUTREACH LLC

Filing Information

Document Number	L10000042405
FE/ EIN Number	27-2423435
Date Filed	04/20/2010
State	FL
Status	ACTIVE
Last Event	REINSTATEMENT
Event Date Filed	11/02/2021

Principal Address

1255 Dove Avenue
Miami Springs, FL 33166

Changed: 10/13/2022

Mailing Address

1255 Dove Avenue
MIAMI SPRINGS, FL 33166

Changed: 10/13/2022

Registered Agent Name & Address

PALACIO, ALINA R
17420 NW 81 AVENUE
HIALEAH, FL 33015

Name Changed: 11/02/2021

Authorized Person(s) Detail

Name & Address



State of Florida Registration

HR Engineering Services, Inc

**State of Florida
Department of State**

I certify from the records of this office that HR ENGINEERING SERVICES, INC. is a corporation organized under the laws of the State of Florida, filed on July 13, 1998.

The document number of this corporation is P98000061709.

I further certify that said corporation has paid all fees due this office through December 31, 2026, that its most recent annual report/uniform business report was filed on January 5, 2026, and that its status is active.


I further certify that said corporation has not filed Articles of Dissolution.

Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Fifth day of January, 2026




Secretary of State

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LICENSEE DETAILS

Licensee Information

Name:	HR ENGINEERING SERVICES, INC. (Primary Name)
Main Address:	7815 N.W. 72 AVENUE MIAMI Florida 33166
County:	DADE

License Information

License Type:	Engineering Business Registry
Rank:	Registry
License Number:	7991
Status:	Current
Licensure Date:	08/21/1998
Expires:	

Special Qualifications **Qualification Effective**

Alternate Names

[View Related License Information](#)
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KEITH and Associates, Inc

**State of Florida
Department of State**

I certify from the records of this office that KEITH AND ASSOCIATES, INC. is a corporation organized under the laws of the State of Florida, filed on January 20, 1998, effective January 16, 1998.

The document number of this corporation is P98000006011.

I further certify that said corporation has paid all fees due this office through December 31, 2025, that its most recent annual report/uniform business report was filed on January 31, 2025, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.


Given under my hand and the Great Seal of the State of Florida at Tallahassee, the Capital, this the Thirty-first day of January, 2025




Secretary of State

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LICENSEE DETAILS

Licensee Information

Name:	KEITH AND ASSOCIATES, INC. (Primary Name)
Main Address:	301 EAST ATLANTIC BOULEVARD POMPANO BEACH Florida 33060
County:	BROWARD

License Information

License Type:	Engineering Business Registry
Rank:	Registry
License Number:	7928
Status:	Current
Licensure Date:	04/03/1998
Expires:	

Special Qualifications **Qualification Effective**

Alternate Names

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Tab D

ORGANIZATIONAL
PROFILE AND PROJECT
TEAM QUALIFICATIONS

TAB D

Organizational Profile and Project Team Qualifications



Interdisciplinary collaboration supports shared understanding, coordinated decision-making, and consistent project delivery across all phases.

The HDR Team consists of experts and technical professionals from across stormwater, pump stations/MEP, hydrology and hydraulics, permitting, roadway/FDOT coordination, and construction phase services to meet the goals and responsibilities of the City of Hollywood for Stormwater Pump Station #16. Our collaborative environment consistently delivers practical, permit-ready solutions for coastal communities where tidal tailwater, limited right-of-way, and dense utilities demand tight coordination and disciplined decision-making. The individuals shown on the Organization Chart represent the depth of resources available to support the City's work from alternatives evaluation and design through permitting, bidding, and construction administration.

Our Organization Chart identifies the project staff's names and responsibilities and outlines the project team's management and control structure. Detailed resumes for key members of the HDR Team are included. **The strength of this organization is that it provides a framework that allows each discipline to come together and function as one integrated team, with clear handoffs between H&H modeling, drainage design, pump station/MEP, permitting, roadway/MOT needs, and CEI support, an approach HDR has applied on multiple South Florida flood mitigation programs involving stormwater pump stations, corridor constraints, and multi-agency coordination.**



Cristina Ortega, PE, ENV SP serves as our Principal-in-Charge. Cristina brings 17 years of experience leading multidisciplinary flood-resilience programs and has served as City Engineer for Miami Beach. Her relevant work includes the First Street Neighborhood Improvement Project (including advanced modeling and design of a 230,000 GPM pump station), the Stormwater Master Plan Update and Program Implementation for Miami Beach, and West Avenue Neighborhood Improvements (including utility upgrades and a 120,000 GPM pump station). Cristina's leadership brings senior oversight that aligns technical decisions with public visibility, permitting realities, and schedule discipline.



Alex Vazquez, PE, CFM serves as Project Manager. With over 40 years of experience in drainage infrastructure, stormwater management planning, and pump station design, Alex brings direct relevance to this SR A1A corridor effort. His experience includes FDOT corridor work such as South Roosevelt Blvd/SR-A1A (Key West) stormwater pump station design with a 24,000 GPM system and drainage injection wells; North Bay Village pump station assessment and design including an 18,000 GPM pump station and 18 drainage injection wells; and, most directly, Azalea and Van Buren stormwater pump stations for the City of Hollywood (approximately 16,000 and 20,000 GPM), providing proven judgment on alternatives, design criteria, constructability, and stakeholder coordination.



Giancarlo Peña, PE serves as Lead Stormwater Engineer. Giancarlo brings 17 years of experience delivering large-scale stormwater and coastal resilience projects that require coordinated design across utilities, roadway interfaces, and pump station elements. His relevant experience includes serving as Senior Project Manager for Melrose Manors Neighborhood Stormwater

Improvements (including multiple pump stations and major drainage upgrades) and supporting complex, high-visibility flood-resilience work such as the First Street Neighborhood Improvement Project and other Miami Beach neighborhood programs that combine drainage, roadway impacts, and stakeholder coordination.



Alex Miller, PE, CFM, ENV SP leads Hydrologic and Hydraulic (H&H) Modeling and supports the technical basis for site selection and sizing. Alex has served as Lead H&H Modeler/EOR on neighborhood flood mitigation programs that integrate gravity upgrades with stormwater pump stations, including

Dorsey–Riverbend (including a 10,800 GPM pump station) and Progresso Village (including a 16,200 GPM pump station). He also developed a 2D surface and groundwater model for Melrose Manors, incorporating future climate/rainfall and groundwater conditions to guide resilient design decisions.



Samantha La Hée, PE serves as Lead MEP Engineer and Pump Station Design Lead. With 19+ years of specialized experience in pump stations and pipeline design, Samantha leads pump selection and configuration, station layout, and coordinated design with electrical, controls, structural, and HVAC needs.

Her relevant work includes Progresso Village (pump station design including 16,200 GPM capacity), Melrose Manors (two pump stations each rated at approximately 15,850 GPM, plus major conveyance upgrades), and major pump station programs supporting resilient, flood-protected pump station facilities.



Ken Huntington leads Permitting. Ken brings 40+ years of environmental permitting experience with agencies including USACE, FDEP, and SFWMD, and deep familiarity with stormwater pump station permitting and coastal constraints. His relevant experience includes permitting support for

Dorsey–Riverbend (including a 10,800 GPM pump station and associated stormwater improvements), Melrose Manors (two pump stations totaling 31,868 GPM), and Winston Waterways (Monroe County), which combines roadway elevation, drainage improvements, and sea level rise considerations, experience directly applicable to a coastal SR A1A setting.



David Romano, PE leads Construction Engineering and Inspection (CEI) Services. David brings 30 years of CEI and construction management experience supporting complex, high-visibility projects with strong

agency coordination and issue resolution. His relevant experience includes the Twin Lakes (Key Largo) Flood Mitigation Project (including a pump station discharging to injection wells, treatment/controls, and emergency power), and FDOT District work that demonstrates disciplined field administration, schedule control, and closeout rigor, strengths that support a clean transition from design into construction for Pump Station #16.



Juliana Ortiz, PE supports Lead Roadway/FDOT coordination. Juliana brings 15 years of corridor and roadway design experience, including constrained rights-of-way and utility-heavy environments. Her relevant work includes

Winston Waterways (Monroe County) as Project Manager/EOR for roadway plans, Big Coppitt Key Resiliency Design, and corridor reconstruction programs requiring close coordination with agencies, utilities, and adjacent property constraints, directly supporting SR A1A interface needs, staging/MOT considerations, and multidisciplinary plan integration.

Together, this team's strength is not only individual qualifications, but the way the roles interlock, H&H establishes defensible criteria, stormwater design translates criteria into constructible drainage solutions, MEP/pump station design converts hydraulic needs into an operable facility, permitting packages the work for timely approvals, roadway coordination integrates SR A1A constraints, and CEI for continuity through construction. **This integrated structure provides the City of Hollywood a responsive, experienced team prepared to deliver Pump Station #16 efficiently, transparently, and with the quality controls needed to minimize risk and keep the project moving from concept through closeout.**

Organizational Chart



CRISTINA ORTEGA, PE, ENV SP
Principal-in-Charge



ALEX VAZQUEZ, PE, CFM
Project Manager

TECHNICAL ADVISORS

WILL SUERO, PE
QA/QC Officer

JULIE STEIN, ENV SP, LEED AP
Stormwater

EMILIO CORRALES, PE
Roadway

MIKE RUDISELL, PE *
Stormwater Pump Station



JULIANA ORTIZ, PE
Lead Roadway Engineer
(RE)



GIANCARLO PEÑA, PE
Lead Stormwater Engineer
(SE)



SAMANTHA LA HÉE, PE
Lead Mechanical/Pump Station



DAVID ROMANO, PE
Construction Engineering &
Inspection Services (CEIS)



KEN HUNTINGTON
Permitting

TECHNICAL TEAM

ROADWAY

Hugo Gutierrez, PE
Melisa Henriquez Valencia

SIGNING & PAVEMENT MARKINGS

Amit Singh, PE

MOT/TCP/TRAFFIC ENGINEERING

Waruna Jayasooriya,
PE, PTOE, LEED AP

UTILITY AND AGENCY COORDINATION

Nicolas Hoyos, PE
Jay Turner, PE
Jorge Camacho, PE
Pedro Quirós, PE, ME

PUMP STATIONS & PIPELINES

Heath Hardy, PE, CDT
Justin Midgette, PE
Matthew Dieffenthaler

H&H MODELING

Alex Miller, PE, CFM, ENV SP
Zaine Arth, PE

STORMWATER INFRASTRUCTURE/DRAINAGE

Imtyazahmad Shaikh, PE
Sandra Sequeira, EI

STRUCTURAL

Bruce Bradley, PE

MEP

Chris Work, PE

ELECTRICAL

Mark Vincent, PE

INSTRUMENTATION

Matt Davis, PE

CEIS

Andrew Craft, EI
Angel Martinez, EI

ARCHITECTURE

Mike Romot, RA
James Reddrick, NCARB, LEED AP
BD+C, PMP, CDT

LANDSCAPE ARCHITECTURE

Kevin Might, RLA
April Cottini, RLA, LEED AP, CPD

RIGHT OF WAY

Javier Manso, PE

SUPPORT SERVICES

ENVIRONMENTAL / PERMITTING

Ken Huntington
Courtney Arena, ENV SP

RESILIENCE

Sharon Wright,
AICP, LEED AP BD+C, ENV SP

GIS

Michael Schmedt, GISP
Richard Littlefield, GISP

CADD

Julie Nicholson

COMMUNITY ENGAGEMENT

Heather Leslie¹
Aurora Gonzalez¹

SURVEY/SUE

Charles Schramm, PSM³
Bryan Merritt, PSM³

GRANT & BOND SUPPORT

Angela Schedel, PHD, PE

COST ESTIMATING

Peter Bredehoeft, CEP

GEOTECHNICAL

Hernando Ramos, PE²
Chatuphat Savigamin, PhD, PE²

KEY

* Licensed in states other than Florida | ¹HML Public Outreach LLC | ²HR Engineering Services, Inc. | ³KEITH and Associates, INC.

Project Manager Summary



Experienced + Committed + Local

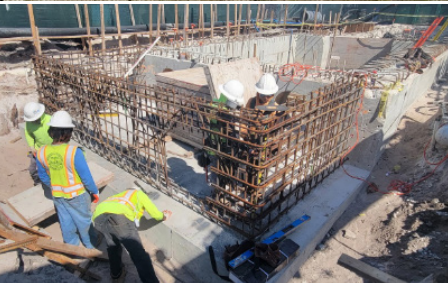
Alex Vazquez, PE, CFM
 Project Manager

Firm: HDR Engineering, Inc.

I bring more than 40 years of experience managing small- and large-scale stormwater and flood protection infrastructure projects incorporating stormwater pump stations, with a strong focus on collaborative planning, technical excellence, regulatory compliance, and proactive asset and operations management. I have worked closely with the City of Fort Lauderdale, City of Key West, City of Miami, City of Miami Beach, and the Florida Department of Transportation, among others, delivering flood protection and stormwater pump station projects in coastal environments affected by low elevations, constrained hydraulic conditions, and exposure to hurricane wind forces. This experience has given me a strong understanding of stormwater facilities, regulatory drivers, and capital improvement priorities for these types of coastal projects.

I was also the Project Manager for the design of the FDOT Van Buren System Stormwater Pump Station and led the design-scoping effort for the CRA/City Azalea System Stormwater Pump Station.

This direct experience within the City of Hollywood provides critical continuity and institutional knowledge, allowing me to apply lessons learned to successfully deliver the SWPS #16 project on time and budget.



Keys to Success



Collaborative Leadership

I bring a proven ability to unite diverse teams across technical, operational, and regulatory domains, fostering collaboration and alignment to achieve the City's strategic goals efficiently. My proven experience includes:

- **FDOT Van Buren Stormwater Pump Station** - 20,200-GPM stormwater pump station.
- **City of Fort Lauderdale Dorsey River Bend Stormwater Pump Station** - 10,800-gpm stormwater pump station.
- **City of Key West, S. Roosevelt Stormwater Pump Station** - 24,000-gpm stormwater pump.



Regulatory Expertise

My approach combines deep technical expertise with proactive regulatory engagement to help the City navigate complex requirements and achieve operational excellence.

I have successfully obtained the required permits from the following agencies for similar stormwater pump station projects in coastal areas:

- SFWMD
- FDEP
- USACOE
- Broward County
- FDOT

With extensive experience navigating regulatory requirements, I provide proactive guidance to drive compliance while aligning regulatory objectives with operational and financial priorities.



Proactive Management

My forward-thinking approach emphasizes enhancing system reliability, implementing preventive maintenance strategies, optimizing system operation, and delivering sustainable solutions to position the City for long-term success. Key elements include:

- **Forward-Looking Solutions:** Anticipating challenges and integrating innovative solutions.
- **Constructability:** Integrating constructability into all phases of design by anticipating construction challenges.
- **Quality Control:** Ensuring quality deliverables by enforcing rigorous quality control processes.

Alex Vazquez, PE, CFM

Project Manager



FIRM

HDR Engineering, Inc.

EDUCATION

Bachelor of Science, Civil Engineering,
University of Florida

REGISTRATION

Professional Engineer,
FL, No. 42108

Certified Floodplain Manager (CFM)

INDUSTRY EXPERIENCE

43 Years

FIRM EXPERIENCE

1 Year

Alex has over 40 years of professional engineering consulting and construction management experience. His experience encompasses a wide range of project types, including, but not limited to: drainage infrastructure and stormwater management systems analysis, design and permitting; hydrologic, hydraulic, and water quality modeling with a wide variety of water resources numerical models; stormwater management master plan development; watershed studies; sea-level rise studies; flooding assessment/mitigation studies; industrial and commercial site development; design of water/wastewater collection and distribution systems, environmental permitting; construction management; and application of GIS technologies to civil, environmental and water resources engineering projects. Alex has also served as an expert witness on numerous flooding and flood protection level of service litigation cases.

RELEVANT EXPERIENCE

Van Buren Stormwater Pump Stations, FDOT District 4, City of Hollywood, FL

Project Manager. This project included the design and permitting of stormwater pump stations collecting runoff from SR A1A and the City of Hollywood. The improvements consisted of the Van Buren Stormwater Pump Station with a 20,200-gpm capacity discharging to the Intracoastal Waterway (ICWW). Water-quality treatment is provided through a hydrodynamic separator prior to discharge to the ICWW. Discharge velocities from the pump stations are controlled using overflow control structures to limit outfall velocities to less than 5 feet per second (fps), consistent with navigable waterway requirements. Alex Vazquez led the hydrologic and hydraulic modeling, preparation of construction contract documents, and coordination of all permitting activities.

Azalea Stormwater Pump Station, City of Hollywood, FL

Project Manager. This project includes the design of a 16,000-gpm stormwater pump station discharging to the Intracoastal Waterway (ICWW). Water-quality treatment is provided through a hydrodynamic separator prior to discharge to the ICWW. Alex Vazquez led the scoping of the stormwater pump station design and coordinated closely with the City to define the analysis and design approach for SWPS #16, which conveys runoff from Jackson Street through Jefferson Street.

Stormwater Neighborhood Improvements (Dorsey-Riverbend), City of Fort Lauderdale, FL

Project Manager. This project included the design of a 10,800-gpm stormwater pump station discharging to the North Fork of the New River to improve the flood protection level of service for the Dorsey-Riverbend Neighborhood, which encompasses approximately 200 acres. Water-quality treatment is provided through a combination of grass swales, approximately 1,000 linear feet of exfiltration trenches, and two (2) drainage wells. Alex led the hydrologic and hydraulic modeling, preparation of construction contract documents, permitting, and bid and award services, and is currently providing post-design services in support of construction.

Stormwater Neighborhood Improvements (Progresso Village), City of Fort Lauderdale, FL

Project Manager. This project included the design of a 16,200-gpm stormwater pump station discharging to the North Fork of the New River to improve the flood protection level of service for the Dorsey-Riverbend Neighborhood, which encompasses approximately 300 acres. Water-quality

Alex Vazquez, PE, CFM (CONTINUED)

treatment is achieved through a combination of grass swales, approximately 1,200 linear feet of exfiltration trenches, and two (2) drainage wells. Alex led the hydrologic and hydraulic modeling, preparation of construction contract documents, permitting, and bid and award services, and is currently providing post-design services in support of construction.

South Roosevelt Blvd./SR-A1A from MP. 0.000 TO MP. 0.977 Stormwater Pump Station Design, Key West, FL Project Manager. The project included milling, overbuild, and resurfacing improvements; reconstruction of the promenade; installation of three (3) new pedestrian crossings with HAWK signals; construction of retaining walls at two locations where none previously existed; and upgraded signing and pavement markings. Alex led the stormwater management, drainage design, and permitting for the project. The stormwater management system includes a 24,000-gpm stormwater pump station, a vortex pollution control structure downstream of the pump station, and twelve (12) drainage injection wells with an emergency bypass structure. The pump station is equipped with a diesel emergency generator on an elevated platform for reliable operation during floods and power outages.

North Bay Village Stormwater Pump Station Assessment and Design, North Bay Village, FL Project Manager. Alex provided design services to alleviate flooding conditions observed within the southeastern portion of North Bay Island. The project included the collection and review of available survey data, Geographic Information System (GIS) information, storm sewer record drawings, and drainage well completion reports to support development of an integrated one-dimensional (1D) / two-dimensional (2D) ICPR v4 hydrologic and hydraulic (H&H) model.

Alex and his team advanced the project through the 60%, 90%, and 100% design phases, preparing construction contract documents for proposed improvements that included an 18,000-gpm stormwater pump station with a diesel backup generator and eighteen (18) drainage injection wells. The team also coordinated all required permitting with applicable regulatory agencies, including the South Florida Water Management District (SFWMD), Florida Department of Environmental Protection (FDEP) and Miami-Dade Department of Regulatory and Economic Resources (DRER), and managed required coordination and relocations with affected private utilities.

North Shore D Neighborhood Improvements, Miami Beach, FL

QC Reviewer. Comprehensive improvements to the North Shore Town Center, bounded by 73rd Street to the north, Collins Avenue to the east, 69th Street to the south and Indian Creek/Dickens Avenue to the west. Boundaries also includes the portion along 71st Street between Indian Creek Drive and Bonita Drive. The intent of this project is to address the risk of current and future flooding, compounded by future sea level rise, by adapting the roads and stormwater drainage systems in and around the North Beach Town Center (Zone TC-C), in areas that are currently prone to frequent flooding by tidal and rain events. This project will improve community resilience, business continuity and quality of life by increasing the capacity of the stormwater conveyance and treatment system for the entire basin, including new stormwater drainage pipes, stormwater pump(s), water quality wells and other new treatment systems. In addition, the project will address improvements to the potable and fire water distribution system and the sanitary sewer system within the affected areas of the neighborhood.

SW 10th Street Connector Corridor Design Consultant, FDOT District 4, Broward County, FL

Senior H&H Engineer. HDR led the development of design phase concept plans and multi-disciplinary corridor design to allow the two PD&E studies (one for SW 10th Street and one for the SW 10th Street/I-95 interchange) to move towards construction. The post-PD&E preferred alternative activities included master planning, traffic reevaluation, environmental, permitting, utility coordination, cost estimating, project scheduling, constructability assessment for segmentation, and determination of the appropriate delivery method. Developed the Bridge Hydraulic Reports (BHRs) for the I-95 Interchange and providing utility coordination. The BHRs presented the H&H and scour analyses of bridges 1-6 located within the Lake Worth Drainage District jurisdiction and also made recommendations to facilitate a proper design. For this study, water-surface elevations for floods of the selected recurrence intervals were computed through the use of the River Analysis System (HEC-RAS) computer program. In addition, HEC-RAS was used to predict the one-dimensional unsteady flow water crossings.

Cristina Ortega,

PE, ENV SP

Principal-in-Charge



FIRM

HDR Engineering, Inc.

EDUCATION

MS, Environmental Eng., 2012

BS, Civil & Env. Eng., 2009

REGISTRATION

Professional Engineer - FL, No. 77632

Envision Sustainability Professional, FL, No. 15905

PROFESSIONAL RECOGNITION

2024 ASCE Miami-Dade Government
Engineer of the Year

INDUSTRY EXPERIENCE

17 Years

FIRM EXPERIENCE

1 Year

Cristina is a water resources engineer with extensive experience, including assessment, master planning, pilot testing, design, permitting, construction, commissioning and operation of water, wastewater, and stormwater infrastructure throughout South Florida. Prior to joining HDR, she served as the City Engineer at the City of Miami Beach, where she was responsible for directing the Engineering Division within Public Works, comprised of 40 professionals in several different sections. Prior to her employment at the City, Cristina was a project manager and water process engineer in the consulting industry. She successfully managed and delivered multiple projects, including conventional design-bid-build and design/build, on budget and on time, meeting, and exceeding client expectations. Cristina has managed diverse engineering teams and delivered innovative solutions that saved utilities millions of dollars in capital and O&M expenditures.

RELEVANT EXPERIENCE

First Street Neighborhood Improvement Project, City of Miami Beach, FL
City Engineer. Responsible in charge of a complex, multi-disciplinary flood-resilience project. Scope included road elevation, advanced stormwater modeling, design of a new 230,000 GPM pump station, and full compliance with DERM and City regulatory standards. Conducted extensive design plan reviews across multiple project phases, for technical accuracy and alignment with project goals. Led key stakeholder communications-- including regulators, commissioners, residents, and businesses, through major project scope and funding changes.

Stormwater Master Plan Update and Program Implementation, City of Miami Beach, FL
City Engineer. Cristina led the City of Miami Beach's stormwater master plan update to mitigate flooding, guiding planning for 56 neighborhood projects, a ten-year capital plan, and water quality improvements including bioswales, injection wells, and other treatment systems while navigating complex regulatory changes.

West Avenue Neighborhood Improvements (Phases II), City of Miami Beach, FL
City Engineer. Responsible in charge of Phase II technical alignment and City policy implementation as part of this >\$100M neighborhood resilience project. The project includes road raising with harmonization into private property, utility upgrades for water, sewer and stormwater systems, with a 120,000 GPM stormwater pump station and several inject wells. Coordinated with City leadership, contractor, engineer of record and regulators for conflict resolution.

North Shore D Neighborhood Improvement Project (Phase I), City of Miami Beach, FL
City Engineer. Responsible in charge during preliminary engineering and planning efforts. This project includes underground utility improvements, with replacement of water, sewer, and stormwater systems, along with siting for two new pump stations. Led stakeholder engagement for a high-priority neighborhood within the North Beach CRA district. Reviewed and validated preliminary plans, hydraulic modeling results and cost estimates, and presented project milestones to City Commissions and community stakeholders. Coordinated with developers, businesses, commissioners and various City Departments during the planning phase.

Cristina Ortega (continued)

Stormwater Master Plan Update and Program Implementation, City of Miami Beach, FL

City Engineer. Responsible in charge during the latest stormwater master plan update for the City of Miami Beach. This project carried out planning for 56 neighborhood improvement projects citywide, including major infrastructure upgrades to mitigate flooding from a ten year, 24 hours storm, as well as tidal flooding. Led the development and commission approval of a ten-year capital improvement plan that included addressing the highest priority neighborhood projects, in parallel with the implementation of smaller stormwater critical needs projects—to alleviate flooding in hotspot areas throughout the City. The program also encompassed several projects focused on water quality improvements, including the design and construction of bioswales, injection wells and other treatment systems; while navigating significant regulatory changes.

Stormwater Master Plan Update completed and adopted by Commission March 2024; with several Neighborhood Improvement Projects underway.

- **Seawalls** - \$50M Five Year Program: 2 segments completed, 6 in construction and 21 in design procurement/ design/permitting, including five living shoreline projects. Indian Creek 1.2 mile seawall completed in 2023.
- **Implementation of the Critical 5-year Capital Improvement Water and Sewer Projects** - \$300 M, >85% of program underway with over 50 projects in progress;
- **Bridges R&R Program** - \$18M Ten Year Program: completed the City-wide Bridge Assessment, design of improvements to 3 vehicular bridges and 6 pedestrian bridges. Construction completed for 4 bridges.

Indian Creek Neighborhood Improvements, City of Miami Beach, FL

City Engineer. Responsible in charge during the final construction phase of a joint initiative between the City of Miami Beach and the Florida Department of Transportation focused on emergency infrastructure and flood resilience upgrades to address tidal flooding of major thoroughfare. This project included key resilience features, including a 45,000 GPM pump station, roadway elevation, hardscape and landscape improvements, and seawall design and construction. Involved in public outreach with key stakeholders and resolution of regulatory challenges. This project successfully achieved \$9 million in savings through value engineering strategies.

City of Miami Beach Public Works Department, Miami Beach, FL

City Engineer. Cristina was responsible for directing the Engineering Division within Public Works. Her team managed the City's critical infrastructure, including potable water distribution, sanitary sewer collection and transmission, stormwater drainage, bridges, seawalls, streets and sidewalks. She was responsible for the integrity of engineering designs and solutions within the department as well as the implementation of the capital improvement plan; she provided oversight and engaged in the development of engineering policies, division operating and capital budgeting, and strategic initiatives.

Nautilus B Neighborhood Stormwater Critical Needs Project, City of Miami Beach, FL

City Engineer. Responsible in charge during the design of stormwater improvements for an area that experienced recurring tidal and rainfall induced flooding, due to low elevations and high groundwater table. This project included minor road rising, installation of large stormwater conveyance pipes and a water quality treatment station, all which were intended to be integral and coordinated with the ultimate master plan for the neighborhood.

Greynolds Park Sea Level Rise Mitigation Study, Miami-Dade County Parks, Recreation & Open Spaces

Project Manager. Managed engineering and planning team for this study that evaluated the current and future flood risk of the Greynolds Park, to inform mitigation measures and adaptation strategies to reduce future flood impacts and to maintain park operations. This is one of the oldest parks in Miami-Dade County, containing 249-acres, with a golf course, camping areas, and nature trails, adjacent to the Oleta River. The park is low lying and vulnerable to frequent flooding.

Juliana Ortiz, PE

Lead Roadway Engineer (RE)



FIRM

HDR Engineering, Inc.

EDUCATION

Bachelors, Civil Engineering, Florida International University (FIU)

REGISTRATION

Professional Engineer - FL, No. 80325

INDUSTRY EXPERIENCE

15 Years

FIRM EXPERIENCE

13 Years

Juliana has experience in transportation design and plans production. Her experience includes preparation of final design plans, roadway geometrics, signing and pavement markings, signalization, pavement design, plans reviews, engineer estimates, and utility coordination for milling and resurfacing, reconstruction, new construction, limited access facilities, tolled facilities, and complexed interchange projects. Juliana also has extensive computer experience in MicroStation, Geopak, Geopak Quantity Manager, AutoTurn, and other AutoCAD applications.

RELEVANT EXPERIENCE

Winston Waterways Design & Permitting, Monroe County, FL

Project Manager/EOR, Roadway Plans. Monroe County is reconstructing and elevating 17 roads in Winston Waterways, Key Largo, to address sea level rise through 2045, based on NOAA's 2017 projections. Improvements include a stormwater collection, treatment, and pump system; utility coordination; easement acquisition; private property harmonization; and all elements needed to deliver a resilient, functional roadway network. Juliana's responsibilities include leading coordination with the County and subconsultants, managing interdisciplinary efforts (including structures), attending weekly project meetings, and maintaining accurate and up-to-date quantities and cost estimates throughout the project.

Big Coppitt Key Resiliency Design, Monroe County, FL

Project Manager. A 4.94-mile resiliency effort to reconstruct and elevate roads to address sea level rise impacts through 2045. Improvements include a stormwater management system with collection, treatment, pumping, and disposal, along with utility coordination, easement acquisition, and private property harmonization. The project's primary goal is to maintain roadway accessibility in flood-prone areas by raising roadways and implementing a pressurized stormwater system to adapt to current and future climate challenges. Juliana's responsibilities include coordination with the County and subconsultants, interdisciplinary coordination (including structures), participation in weekly meetings, and maintaining accurate quantities and cost estimates throughout the project.

Stillwright Point Road Reconstruction and Stormwater Project, Monroe County, Monroe County, FL

Project Manager. HDR is responsible for the roadway design and utility coordination component of a resiliency project in Monroe County. Improvements include reconstructing and elevating the road and instillation of a stormwater collection system for current and future sea level rise impacts. This project has seven local roads within the Stillwright Road subdivision. Juliana led the design efforts and coordination with the county, property owners, and the utility agencies.

Roadway Vulnerability Analysis and Capital Plan - Monroe County, Monroe County, FL

Project Engineer. Analyzing the impacts of current and projected Sea Level Rise (SLR) on County-maintained roads to develop an implementation plan and timeline for adaptation. Results will inform policy updates and design criteria for acceptable levels of service. HDR is evaluating SLR, tidal waves, storm surge, and extreme weather projections through 2100 to assess roadway vulnerability and prioritize adaptation strategies such as roadway elevation, drainage improvements, and green infrastructure. Juliana managed interdisciplinary coordination, supported conceptual design development, and led the preparation of accurate cost estimates and adaptation plans for the most at-risk segments.

Juliana Ortiz (continued)

Scoping Services for Resurfacing, Restoration and Rehabilitation Improvements, FDOT District 6, FL

Project Engineer. HDR has supported FDOT District 6 with Work Program Development for the Resurfacing Program, helping to identify, verify, and scope candidate projects for resurfacing and rehabilitation. Our team prepared scoping reports documenting existing conditions, design criteria, and concept designs with cost estimates that align with the latest FDOT Design Manual. To date, HDR has completed over 50 scoping reports across a range of project types, including resurfacing, widening, reconstruction, drainage, lighting, lane elimination, transit, and sea-level rise projects. Juliana's role has involved the development of numerous reports which include review of existing conditions and development of concept design and recommendations. She also has developed cost estimates for the proposed improvements.

North Shore D Neighborhood Improvements, Miami Beach, FL

Project Engineer. Comprehensive improvements to the North Shore Town Center, bounded by 73rd Street to the north, Collins Avenue to the east, 69th Street to the south and Indian Creek/Dickens Avenue to the west. Boundaries also includes the portion along 71st Street between Indian Creek Drive and Bonita Drive. The intent of this project is to address the risk of current and future flooding, compounded by future sea level rise, by adapting the roads and stormwater drainage systems in and around the North Beach Town Center (Zone TC-C), in areas that are currently prone to frequent flooding by tidal and rain events. This project will improve community resilience, business continuity and quality of life by increasing the capacity of the stormwater conveyance and treatment system for the entire basin, including new stormwater drainage pipes, stormwater pump(s), water quality wells and other new treatment systems. In addition, the project will address improvements to the potable and fire water distribution system and the sanitary sewer system within the affected areas of the neighborhood. The project will address streetscape and landscape design to improve neighborhood aesthetics and the urban canopy.

Wastewater Collection and Transmission Systems (WCTS) Pump Station 0441 Upgrade, Miami Dade Water & Sewer Dept., Miami, FL

Project Engineer. HDR provided design, permitting, and limited construction support services for the design of a new pump station and force main. The design took into account future system expansion/improvements, utility relocations, roadway improvements, resurfacing, and all other applicable MDWASD pump station, gravity sewer, and force main design criteria and standards.

I-95 Corridor Design Consultant Phase 3, FDOT District 4, Broward and Palm Beach Counties, FL

Project Designer. HDR provided support services for the deployment of the I-95 express lanes from the Miami-Dade/Broward County Line in Broward County to North of Linton Blvd. in Palm Beach County. We were responsible for the analysis and documentation of the project scope, and the development of the RFP and associated backup information (master plans, concept plans, drainage design & permitting, exceptions/ variations, typical sections, pavement designs, concept of operations, etc.) to support the procurement of multiple on-going design-build contracts. Juliana was responsible for coordination with utilities, traffic, structures and drainage for possible design improvement. Identify require criteria and locations for DE/DV. Review and refine geometric design, development of cross-section, typical sections and roadway plans production.

SR 710/Beeline Highway Reconstruction from Northlake Boulevard to Blue Heron Boulevard, FDOT District 4, Palm Beach County, FL

Project Engineer. This project addressed the problems associated with the rapid residential and commercial development in Palm Beach County. The design provided sufficient additional capacity to meet increased travel demands and enhanced highway safety and emergency access within Palm Beach County. Juliana was the roadway task lead for this project. Her role included coordination with different disciplines, clients, and other consultants. She also worked in the development of horizontal and vertical geometry, design calculations, pavement design, and other design packages as well as plan production efforts.

Giancarlo Peña, PE

Lead Stormwater Engineer (SE)



Giancarlo is a highly accomplished Senior Stormwater Engineer and Certified General Contractor with deep expertise in stormwater management, coastal resilience, and sustainable infrastructure design and construction. He specializes in sea-level rise adaptation, including the design and construction of large stormwater pump stations, high-capacity force mains, and gravity stormwater systems. Giancarlo has a proven track record of managing complex, mission-critical projects in water and sewer systems from planning through execution, ensuring quality control, budget adherence, and on-time delivery. He is also recognized for fostering interdisciplinary collaboration and mentoring engineering professionals to support project success and ongoing development.

RELEVANT EXPERIENCE

Melrose Manors Neighborhood Stormwater Improvements, City of Fort Lauderdale, FL

Senior Project Manager. Design of a comprehensive stormwater improvement project in the 640-acre Melrose Manors neighborhood in the City of Fort Lauderdale, which currently lacks formal stormwater infrastructure and a positive outfall to a receiving water body. Planned surface improvements include the addition of grassed swales and other pervious features, while infrastructure upgrades will introduce a new drainage collection system, two pump stations each rated at 15,850 GPM, and a new 36-inch force main to convey stormwater to a newly constructed outfall. HDR is providing data collection, final design, permitting support, bid-phase services, and construction-phase assistance.

Winston Waterways Design & Permitting, Monroe County, FL

Senior Project Engineer QA/QC. The Winston Waterways Project Improvements involve reconstructing and elevating 17 roads, totaling approximately 2.6 miles, to address current and future sea level rise impacts. Proposed enhancements include stormwater management, utility coordination, private property harmonization, and other elements essential for a resilient roadway system. As the prime consultant, HDR is responsible for roadway design, traffic control plans (TCP), signing and pavement marking (S&M), utility coordination, and cost estimating.

First Street Neighborhood Improvement Project, City of Miami Beach, FL

Owner's Senior Design Manager for a complex, multi-disciplinary flood-resilience project. Scope included road elevation, advanced stormwater modeling, design of a new 230,000 GPM pump station, and full compliance with DERM and City regulatory standards. Led extensive design plan reviews across multiple project phases, maintaining technical accuracy and alignment with project goals. Contributed significantly to the independent cost estimate, which guided the project's strategic phasing. Directed stakeholder engagement, including community harmonization meetings and preparation for Commission presentations and public reviews.

Indian Creek Neighborhood Improvements, City of Miami Beach, FL

Owner's Senior Design Manager for a joint initiative between the City of Miami Beach and the Florida Department of Transportation focused on emergency infrastructure and flood resilience upgrades. Oversaw field inspections, cost estimating, and design reviews for key resilience features, including a 45,000 GPM pump station, roadway elevation, hardscape improvements, and seawall design and construction. Led design development and harmonization efforts, coordinated public outreach, and delivered presentations to the City Commission and key stakeholders. Successfully achieved \$9 million in savings through value engineering strategies.

FIRM

HDR Engineering, Inc.

EDUCATION

Master of Science, Civil Engineering, Florida International University (FIU)

Bachelor of Science, Civil Engineering, Florida International University (FIU)

REGISTRATION

Professional Engineer - FL, No. 79377

NASSCO Lateral Assessment & Certification Program (LACP)

NASSCO Pipeline Assessment and Certification Program

NASSCO Manhole Assessment Certification Program (MACP)

INDUSTRY EXPERIENCE

18 Years

FIRM EXPERIENCE

<1 Year

Giancarlo Peña (continued)

West Avenue Neighborhood Improvements (Phases I-III), City of Miami Beach, FL

Owner's Project Manager (Ph 1)/ Owner's Sr. Design Manager (Ph II, III). For Phase I, oversaw the full construction of utility upgrades—including water, sewer, and stormwater systems—and the installation of seven pump stations. Key responsibilities included managing field inspections, addressing field changes, processing payment applications, and developing cost estimates. For Phases II & III, served as the Owner's Senior Design Manager, leading the development of the Design Criteria Package. Directed plan reviews for utility improvements, including water, sewer, stormwater systems, and a 120,000 GPM pump station. Additionally, delivered presentations to the City Commission and community boards, supported permitting compliance, and performed quality assurance on stormwater modeling.

North Shore D Neighborhood Improvement Project (Phase I), City of Miami Beach, FL

QA/QC Reviewer. Oversaw QA/QC for proposed underground utility improvements, including the replacement of water, sewer, and stormwater systems, along with siting for a new pump station, as detailed in the Basis of Design Report. Led stakeholder engagement for a high-priority neighborhood within the North Beach CRA district. Reviewed and validated preliminary plans and cost estimates, and presented project milestones to City Commissions and community stakeholders.

Stormwater Neighborhood Improvements (Progresso Village), City of Fort Lauderdale, FL

Senior Project Engineer. The project included the design of a 16,200 GPM stormwater pump station to improve the flood protection level of service of the Dorsey-Riverbend Neighborhood. This neighborhood encompasses and area of approximately 300 acres. Water quality is met via grass swales and approximately 1,200 linear feet of exfiltration trenches and two drainage wells. Alex developed the 90% and 100% design documents for the proposed improvements and led the quality control review.

11th Street Roadway Reconstruction (Phases I-II), City of Miami Beach, FL

Owner's Project Manager. The City of Miami Beach raised the 11th Street roadway by two feet to address sea level rise, requiring a redesigned drainage system, extensive utility coordination, and harmonization with adjacent properties. The project included preparing construction documents for roadway reconstruction, new drainage infrastructure, major sewer and force main installations, pump station upgrades, water main improvements, decorative lighting, signalization upgrades, landscaping, irrigation, and updated signage and pavement markings. Permits were obtained from all required regulatory agencies, and the team also supported construction administration throughout the project.

Venetian Causeway Water and Sewer Pipe Replacement (Phases I-II)

Owner's Senior Design Manager for the design and construction of approximately 4,800 linear feet of 12" sewer force main and 7,400 linear feet of 36" water main, installed via horizontal directional drilling along Miami's oldest causeway. Responsibilities included preparing QA/QC construction inspection reports, reviewing and managing change order requests, coordinating design deviations, and securing Maintenance of Traffic (MOT) approvals. Acted as liaison with local residents, permitting agencies, and the Right-of-Way (ROW) owner (Miami-Dade County), for continuous stakeholder engagement and satisfaction.

PS 28 Rehabilitation

Owner's Senior Design Manager for the design and construction of the rehabilitation and hardening of the existing PS 28, encompassing the replacement of all mechanical equipment with new components of the same or similar capacity, and a new electrical building that will house new electrical equipment, an emergency generator, and instrumentation and controls serving the pump station. The existing electrical building will be demolished and replaced with a new structure that will accommodate the new equipment and upgraded service.

Samantha La Hée, PE

Lead Mechanical/Pump Station



FIRM

HDR Engineering, Inc.

EDUCATION

Masters, Civil Engineering, Howard University

Bachelors, Civil Engineering, Howard University

REGISTRATION

Professional Engineer - FL, No. 82667

INDUSTRY EXPERIENCE

22 Years

FIRM EXPERIENCE

19 Years

Samantha is a project manager with experience in hydraulic modeling; stormwater and pipeline design; water and wastewater treatment and design; pump stations; membrane systems; water supply master planning; regulatory compliance; permitting; and preparation of specifications, reports, and evaluations. Her hydraulic modeling experience includes EPA SWMM5, InfoWorks CS, Storm and Sanitary Sewer Analysis (SSA), Visual Hydraulics, and HydroCAD.

RELEVANT EXPERIENCE

Neighborhood Stormwater Improvements and Stormwater Pump Station Design and Construction (Progresso Village), City of Fort Lauderdale, FL Process Design Lead.

The project involves the design of a 16,200 GPM stormwater pump station to enhance flood protection for the 300-acre Progresso Village Neighborhood. The project includes water quality improvements through grass swales and approximately 1,200 linear feet of exfiltration trenches. As a subconsultant, HDR is providing full engineering design services, including preliminary design, final permitting, and construction documents for the replacement stormwater drainage system and new pump station. Samantha was responsible for the design of the pump station, including the pump selection, wet well configuration, and sizing. She coordinated the electrical, HVAC, and structural design elements related to the pump station.

Neighborhood Stormwater Improvements and Stormwater Pump Station Design and Construction (Melrose Manors), City of Fort Lauderdale, FL Mechanical Design Lead.

Design of a comprehensive stormwater improvement project in the 640-acre Melrose Manors neighborhood, which currently lacks formal stormwater infrastructure and a positive outfall to a receiving water body. Planned surface improvements include the addition of grassed swales and other pervious features, while infrastructure upgrades will introduce a new drainage collection system, two pump stations each rated at 15,850 GPM, and a new 36-inch force main to convey stormwater to a newly constructed outfall. HDR is providing data collection, final design, permitting support, bid-phase services, and construction-phase assistance. Samantha was responsible for the design of the pump station, including the pump selection, wet well configuration, and sizing. She coordinated the electrical, HVAC, and structural design elements related to the pump station.

C-23/24 Reservoir, Pump Station, & Associated Water Control Structures, USACE, Huntington District, FL

Pump Station Design Manager/Process Mechanical Lead. HDR is providing multi-discipline engineering expertise to develop designs, plans, and specifications for a 57,815 acre-feet aboveground storage reservoir, 538,597 GPM pump station with 4 engine-driven pumps, and associated water conveyance and control structures to support the Indian River Lagoon South Ecosystem Restoration Project. The project area is approximately 7.3 square miles. Samantha's responsibilities included the design of the reservoir pump systems, including the engines, right-angle gears, auxiliary pumps, debris screens, and air compressors. She also managed and coordinated the design with other disciplines, including electrical, mechanical, fuel, structural, architectural, I&C, and communications.

Samantha La Hée (continued)

S-28 Forward Pump Station and Structure, South Florida Water Management District, FL

Process Mechanical Lead. HDR is providing multi-discipline engineering expertise to develop designs, plans, and specifications for a 673,247 GPM canal pump station with 3 canal pumps powered by both engines and electric motors. The Project also includes new gated structures. Samantha's responsibilities include the design of the reservoir pump systems, including the engines, right-angle gears, electric motors, debris screens, and auxiliary pumps. She also coordinated the design with other disciplines, including electrical, mechanical, fuel, structural, architectural, and I&C.

WCTS Pump Station 301 Design and Construction, MDWASD, Miami, FL

Project Manager. HDR was tasked with the design of a new pump station in order to meet consent decree requirements. PS 301 is a 16 MGD, 110 hp, trench well pump station whose design, based on the coastal location has multiple resiliency components including submersible pumps, an electrical room and generator located on the second floor, and flood flood-proof emergency fuel system. Permitting and construction support services included. Samantha's responsibilities included management and coordination of the design with other disciplines, including electrical, mechanical, fuel, structural, architectural, I&C, and communications.

C23/24 South Reservoir, Pump Station, and Associated Water Control Structures Design, South Florida Water Management District, FL

Mechanical Design. C-23/24 South Reservoir Project is part of the Indian River Lagoon-South PIR under CERP. HDR is currently providing design efforts for the project as part of a joint venture with Gannett Fleming under contract to USACE. The SFWMD as the local sponsor for CERP in conjunction with the USACE is transferring the lead agency for the project from the USACE to SFWMD in order for SFWMD to perform construction. The project includes a reservoir, pump station, structures, canals and similar features for a fully functional project.

Wastewater Collection and Transmission Systems (WCTS) Preliminary Engineering Report (PER) for Pump Station 0187, MDWASD, Miami, FL

Project Manager. HDR performed preliminary engineering analysis of the improvements and upgrades to PS0187 in order to address Consent Decree requirements and operating issues. Services included hydraulic analysis, pump selection, permitting, and construction oversight. Specific work included: replacing electrical switchgear as needed for reliability and compliance with the Consent Decree; developing options to reconfigure the pump station to improve performance, ease of maintenance, and overall function; and providing short-term rehabilitation needs of the existing pump station.

Wastewater Collection and Transmission Systems (WCTS) Pump Station 417 Rehabilitation and Improvements, MDWASD, Miami, FL

Project Manager. The rehabilitation and improvements of PS0417 include all new pumps, motors, valves, and piping. Also included is the replacement and upgrade to electrical equipment, a separate electrical room, refurbishment of the existing generator, and HVAC improvements. The project will refurbish and repair the wet well, which is in very poor condition.

Wastewater Collection and Transmission Systems (WCTS) Pump Station 415 Pumping Equipment Evaluation and Design Alternatives, MDWASD, Miami, FL

Project Manager. The rehabilitation and improvements to Pump Station 415 include all new pumps, motors, valves, and piping. Also included are the replacement and upgrade to electrical equipment, a separate electrical room, refurbishment of the existing generator, and HVAC improvements. The project refurbished and repaired the wet well, which was in very poor condition and included installation of a new odor control system.

David Romano, PE

Construction Engineering & Inspection Services (CEIS)



David is an experienced Senior Project Engineer and Project Administrator with a strong background in complex FDOT and Turnpike roadway and bridge construction projects in South Florida. He excels in agency coordination, utility management, public outreach, and issue resolution. David is proactive in keeping projects on schedule and within budget, with expertise in CEI responsibilities, safety, cost control, and quality oversight. He is a proven team leader dedicated to motivating, training, and mentoring staff for successful project delivery.

RELEVANT EXPERIENCE

Twin Lakes (Key Largo) Flood Mitigation Project, Monroe County, FL
Project Engineer. The Twin Lakes Subdivision is a low-lying island community. Provided roadway and drainage adaptation solutions to reduce flooding in the low-lying Twin Lakes Subdivision. The design included a gravity stormwater collection system, 24" and 30" force mains, a pump station discharging to five injection wells, and water utility replacements. The pump station featured treatment, storage, controls, and emergency power. Additional work included roadway reconstruction, driveway and swale adjustments, and updated signing and pavement markings to harmonize elevations with surrounding properties.

Pompano Beach Airpark (PMP) Runway, Safety Enhancements Project, City of Pompano Beach, FL
Senior Project Engineer. PMP has three paved asphalt runways; in the airfield's pre-construction layout, the thresholds of RWY 15-33 and RWY 10-28 overlapped. The existing geometry was out of conformance with Federal Aviation Administration Advisory Circulars. The project scope consisted of extending RWY 10-28 to the east and performing taxiway modifications to assist with the elimination of runway incursions. Project includes runway extension, taxiway reconfiguration and construction, drainage improvements, and relocation of the existing perimeter road to support enhanced airfield operations.

Broward Operations Center, Regional Complete Streets & Mobility Improvements, FDOT District 4, FL
Senior Project Engineer/Project Administrator. This Design-Build project consisted of safety and mobility improvements including constructing approximately 9 miles of bike and pedestrian facilities, including buffered bike lanes, multi-purpose path, widening, ADA-compliant ramps and sidewalks, street lighting, storm water drainage, signal upgrades, signing & pavement markings, IIRPMs, hardscape features, landscaping, and irrigation. David was responsible for managing the contract, field staff, administration, reviewing and tracking submittals, permits, final as-builts, material certifications and submittal of the Final Estimates package. D-B Firm: Weekley Asphalt Paving, Inc./ A& P Consulting Engineers. Recipient of the 2023 FTBA Best in Construction Award for Community Awareness and Quality Construction.

GEC for Transportation Operations and District Maintenance Structures, Broward County, FL
Project Administrator. Preparing Task Work Orders for maintenance contracts and overseeing routine and priority repairs on bridges including but not limited to the replacement of polymer nosings, cleaning and sealing joints on bridge concrete decks, slope protection repairs and bridge abutments exhibiting undermining, repairing concrete spalls, cleaning and coating exposed steel reinforcement along the substructure and superstructure, metalizing and painting of existing traffic signal mast arm structures, verifying thickness coating requirements at various locations throughout District 4.

FIRM

HDR Engineering, Inc.

EDUCATION

Masters, Construction Management, Florida International University

Bachelors, Civil and Architectural Engineering, University of Miami

REGISTRATION

Professional Engineer - FL, No. 63817

INDUSTRY EXPERIENCE

33 Years

FIRM EXPERIENCE

5 Years

David Romano (continued)

Broward County Highway Construction and Engineering Division, Pembroke Road and SW 136th Avenue Intersection Improvements, FL

Senior Project Engineer / Project Administrator. This project consisted of installing three new signal mast arm assemblies, video vehicle detection, pedestrian signal assembly, overhead mounted panels, LED internally illuminated street signs, minor pavement widening, curb ramps, curb and gutter, sidewalk, Type IV traffic separator, milling, resurfacing, and pavement markings. David was responsible for overseeing the roadway construction and signalization improvements along the intersection of Pembroke Rd and SW 136th Ave.

SR 710 Utility Relocation, West Palm Beach, FL Construction Engineering & Inspection Services.

HDR Engineering was retained by the City of West Palm Beach to assist with the relocation of a 20" watermain and 16" force main due to FDOT road expansion. The Florida Department of Transportation (FDOT) District 4 is undertaking a roadway widening/reconstruction project along State Road (SR) 710 requiring the relocation of a 20" water main and a 16" force main.

Winston Waterways Design & Permitting, Monroe County, FL

Construction Engineering & Inspection Services. The Winston Waterways Project Improvements involve reconstructing and elevating 17 roads, totaling approximately 2.6 miles, to address current and future sea level rise impacts. Proposed enhancements include stormwater management, utility coordination, private property harmonization, and other elements essential for a resilient roadway system. As the prime consultant, HDR is responsible for roadway design, traffic control plans (TCP), signing and pavement marking (S&M), utility coordination, and cost estimating.

DB Projects - Broward, FDOT District 4, Broward County, FL

Project Manager. HDR CCC along with our Subconsultant partners provided CEI Consulting and Project Management Services to FDOT on these six mobility improvements projects. Project staff observed and documented the contractor's work progress for compliance with the contract plans and specifications, provided verification testing of the materials incorporated, performed monthly estimates, maintained project document control, prepared the final estimate and closeout package. The project scope included widening, milling, resurfacing, drainage, signalization, lighting, bicycle lanes, sidewalks, landscaping, irrigation, and hardscape features.

Palm Beach International Airport Airfield Design Improvements and Rehabilitation Program, Palm Beach County, FL

Construction Engineering & Inspection Services. HDR provided professional design and engineering services for the rehabilitation of primary parallel Taxiways B and F for Runway 14-32. The project includes the rehabilitation of the Runway 14-32 shoulders, hot spot mitigation, stormwater, permitting, and upgrades to NAVAIDs. Our scope of services included program validation, schematic design, design development, contract documents, project management, bidding assistance, and construction administration. For this project, we incorporated advanced aircraft movement modeling into the geometric design and phasing, which considered the mobility of the specialized military aircraft based at PBI. This advanced movement modeling supported the project's Construction Phasing and Safety Plan and minimized the project's impact on an airfield with three other concurrent construction projects, as well as for weekly Temporary Flight Restrictions during presidential visits.

Ken Huntington

Permitting



Ken has over 40 years of experience in the field of environmental permitting. He has worked in the Federal Dredge & Fill permitting program with the U.S. Army Corps of Engineers (in West Palm Beach), the Environmental Resources Permitting Program with the Florida Department of Environmental Protection (FDEP in Tampa), and more recently as an environmental consultant specializing in the field of wetlands permitting.

RELEVANT EXPERIENCE

Neighborhood Stormwater Improvements and Pump Station Design & Construction (Dorsey-Riverbend), City of Fort Lauderdale, FL

Sr. Environmental Scientist. HDR designed stormwater improvements for the Dorsey-Riverbend neighborhood, including a 10,800 GPM pump station to enhance flood protection. Ken was a part of the consultant team responsible for developing and implementing a comprehensive plan to prepare and obtain all environmental permits for a stormwater treatment improvement project involving the addition of collection systems, pump station and outfall to the North Fork New River. Permitting efforts included applications to USACE and Broward County, with agency consultation from USFWS and NMFS.

Neighborhood Stormwater Improvements and Pump Station Design & Construction (Melrose Manors), City of Fort Lauderdale, FL

Sr. Environmental Scientist. HDR is delivering design and permitting services for Melrose Manors stormwater improvements, including two pump stations totaling 31,868 GPM. Ken was part of a team that completed the questionnaire for a Water Infrastructure Finance and Innovation Act (WIFIA) Grant. The responses required conducting a due diligence analysis of environmental factors, including endangered species, environmental permitting requirements, potential wetland impacts and water quality analysis. Ken is leading the effort to secure all required environmental permits, including those from the U.S. Army Corps of Engineers (Dredge & Fill) and Broward County Environmental Protection Division (Environmental Resource Permit as delegated by SFWMD, Surface Water Management License and Environmental Resource License), and FDEP.

Winston Waterways Design & Permitting, Monroe County, FL

Sr. Environmental Scientist. HDR was selected by Monroe County to support the reconstruction and elevation of 17 roads in Winston Waterways, Key Largo, addressing sea level rise through 2045. Improvements include a stormwater collection and pump system, utility coordination, easement acquisition, and private property harmonization to deliver a resilient and functional roadway network. Ken is part of a team responsible for conducting environmental due diligence for stormwater improvements, including wetland impacts, endangered species analysis, environmental permitting requirements and water quality analysis.

Bay Vista Drive Roadway Widening for Highway Engineering, Dept. of Transportation and Public Works, Miami-Dade County, FL

Sr. Environmental Scientist. As a Sub to Marlin Engineering, this project widens NE 151st Street and Bay Vista Boulevard to a six-lane divided urban corridor to support future traffic growth and reduce congestion. Improvements are phased and include stormwater management systems permitted by the South Florida Water Management District. Ken is leading the effort to secure all required environmental permits, including those from the U.S. Army Corps of Engineers (Dredge & Fill), South Florida Water Management District (ERP and Water Use), Miami-Dade County RER (Class II, V, and VI), and FDEP (well permit).

FIRM

HDR Engineering, Inc.

EDUCATION

Masters, Fisheries, Biology
Bachelors, Wildlife Biology

REGISTRATION

NPDES Inspector

INDUSTRY EXPERIENCE

52 Years

FIRM EXPERIENCE

3 Years

Ken Huntington (continued)

Miscellaneous Marine and Coastal Engineering Contract - Miami Marine Stadium, City of Miami, FL

Sr. Environmental Scientist. HDR provided engineering design, permitting, and construction oversight for a proposed City boat ramp project, including seagrass impact mapping and mitigation strategy support. Ken contributed to the review team evaluating submerged aquatic vegetation around derelict vessels to quantify impacts and identify mitigation credits, helping the City offset environmental impacts and advance permitting with FDEP.

LPGA Boulevard from US 92 (SR 600) to Williamson Boulevard Final Design, FDOT District 5, FL

Sr. Environmental Scientist. After completing the PD&E Study, HDR was subsequently awarded the design for this project. The design efforts include widening the corridor to six lanes, redesigning the interchange to an innovative concept, and replacing the Tomoka Road Bridge and bridge over I-95, intersection design and stormwater system design.

SR 838/Sunrise Boulevard Rehab, FDOT District 4, Broward County, FL

Sr. Environmental Scientist. HDR performed the design of the SR 838/Sunrise Boulevard corridor from East of Middle River Drive to east of NW 26th Avenue, and Over Intracoastal Waterway Bridge Nos. 860466 and 860467. The resurfacing project included milling and resurfacing, implemented necessary pedestrian ADA modifications, and also included traffic safety, signing and pavement marking, lighting, signalization, and minor drainage improvements. The roadway is a six-lane divided urban minor arterial, with C5 Urban General context classification. The bridge rehabilitation project included full replacement of the electrical and mechanical operation systems, new submarine conduit, movable span deck replacement, fender replacement, scour mitigation, new tender house parking, tender house upgrades, approach MSE retaining wall replacement, and added traffic gates. The existing bridge sections consisted of three-lanes (one-way direction per bridge) with concrete barrier wall along both sides. Complex MOT design with substantial Public Involvement was implemented.

City of Miami Beach Public Works, Miami Beach, FL

Sr. Environmental Scientist. Long term contract with the City of Miami Beach to obtain environmental permits as part of the City's program to deal with sea level rise. Projects included the replacement and elevation of seawalls throughout the City, installation of pump stations, bridge construction and street improvements. Preparation of environmental studies supporting required permits (including endangered species, essential fish studies, wetland identification, benthic surveys, state lands and water quality). Ken led the effort to secure all required environmental permits, including those from the U.S. Army Corps of Engineers (Dredge & Fill), South Florida Water Management District (ERP and Water Use), Miami-Dade County RER (Class II, V, and VI), and FDEP (well permit).

North Shore D Neighborhood Improvements, Miami Beach, FL

Sr. Environmental Scientist. Comprehensive improvements to the North Shore Town Center, bounded by 73rd Street to the north, Collins Avenue to the east, 69th Street to the south and Indian Creek/Dickens Avenue to the west. Boundaries also includes the portion along 71st Street between Indian Creek Drive and Bonita Drive. The intent of this project is to address the risk of current and future flooding, compounded by future sea level rise, by adapting the roads and stormwater drainage systems in and around the North Beach Town Center (Zone TC-C), in areas that are currently prone to frequent flooding by tidal and rain events. This project will improve community resilience, business continuity and quality of life by increasing the capacity of the stormwater conveyance and treatment system for the entire basin, including new stormwater drainage pipes, stormwater pump(s), water quality wells and other new treatment systems. In addition, the project will address improvements to the potable and fire water distribution system and the sanitary sewer system within the affected areas of the neighborhood. The project will address streetscape and landscape design to improve neighborhood aesthetics and the urban canopy. Federal, state and local environmental permits will be obtained.

Alex Miller, PE, CFM, ENV SP

H&H Modeling



Alex, a Miami native raised in the Florida Keys, is a stormwater engineer specializing in complex modeling and planning. He has served as the lead hydrologic and hydraulic modeler on stormwater master planning and watershed models in Florida and across the US. Alex is also a published researcher in flood exposure estimation and has served as EOR for coastal stormwater projects throughout South Florida.

RELEVANT EXPERIENCE

Neighborhood Stormwater Improvements and Pump Station Design & Construction (Dorsey-Riverbend), City of Fort Lauderdale, FL
Lead H&H Modeler, EOR (Gravity Storm Drain). Led the design of updated gravity storm drain improvements and provided permitting support throughout the project. Scope included a new 10,800 GPM stormwater pump station, drainage upgrades, and neighborhood roadway improvements. Permitting efforts included coordination for an Environmental Resource Permit (administered by Broward County) and a State 404 permit for a new outfall to the New River.

Neighborhood Stormwater Improvements and Pump Station Design & Construction (Melrose Manors), City of Fort Lauderdale, FL
Lead H&H Modeler. Developed a 2D surface and groundwater model in StormWise to evaluate drainage improvements for two Fort Lauderdale neighborhoods. The model was validated using Tropical Storm Eta data and used to size storm drain upgrades and two (2) 15,700 GPM pump stations with nearly a mile of 48" force main discharging to the North Fork of the New River. Future 2060 climate scenarios, rainfall, groundwater, and river stages, were also incorporated.

Neighborhood Stormwater Improvements and Pump Station Design & Construction (Progresso Village), City of Fort Lauderdale, FL
Lead H&H Modeler, EOR (Gravity Storm Drain). Led the updated design of gravity storm drain improvements, hydrologic and hydraulic (H&H) modeling, and supported project permitting. The project included a 16,200 GPM stormwater pump station, drainage upgrades, and neighborhood roadway improvements. Also led the development of a Computational Fluid Dynamics (CFD) model to validate a pressurized force main connection to an existing gravity outfall, requiring a custom structure to minimize hydraulic losses.

Key West 1st Street Drainage Assessment, Monroe County, FL
Lead Stormwater Engineer. HDR completed a drainage study to validate earlier findings that the 1st Street gravity system in Key West would remain effective without a pump station. The team reviewed the prior study, created a current hydrologic/hydraulic model, evaluated 2045 sea level rise and high tide scenarios, and developed conceptual pump station alternatives with sizing, siting, and cost estimates. Alex led modeling efforts, proposed pump station concepts, and supported documentation for state-level grant applications.

Castillo de San Marcos Drainage Improvement, National Park Services, St. Augustine, FL
Deputy Project Manager. HDR was selected to address drainage challenges and improve the level of service at Castillo de San Marcos, targeting no standing water after a 25-year, 24-hour storm. Alex modeled sea level rise projections for 2030, 2050, and 2090 to support the evaluation of drainage improvement alternatives. Due to projected tidal impacts, one option included a phased plan with a future stormwater pump station.

FIRM

HDR Engineering, Inc.

EDUCATION

MS, Civil Engineering, University of South Florida

BS, Civil and Environmental Engineering, University of South Florida

REGISTRATION

Professional Engineer - FL, No. 90733

Certified Floodplain Manager

ISI Envision Sustainability Professional

INDUSTRY EXPERIENCE

11 Years

FIRM EXPERIENCE

10 Years

Alex Miller (continued)

S-28 Forward Pumping Station and Structure Replacement, South Florida Water Management District, FL

H&H/CFD Modeler. The S-28 coastal structure is a two-bay, reinforced concrete, gated spillway located in the City of Miami Shores and provides flood protection. Designed the replacement of the S-28 coastal structure, which included replacement of the spillway and mechanical lift gate with elevated components to help mitigate the impacts of sea level rise and climate change, a new 1,500 cfs forward pumping station adjacent to the structure to help maintain basin discharge levels when downstream conditions do not allow for gravity discharge, a flood barrier tying the S-28 structure to higher ground elevations to mitigate impacts of sea level rise, and nature-based features, such as living shoreline along the C-8 canal and vegetated flood control berms to enhance flood protection.

Nob Hill and Southgate Boulevard Intersection, Broward County, FL

H&H Modeler. HDR prepared engineering analysis and final plans for N. Nob Hill Rd and Southgate Blvd intersection in the City of Tamarac, Broward County. The project was an intersection improvement project that constructed a new Eastbound and Westbound dual left turn lane. The scope elements included traffic analysis and report, environmental technical memorandum, milling and resurfacing, ADA upgrades, new signalization, structural mast arms and foundations, signing and pavement markings, drainage, records research, surveying and mapping (control and basemap), utility coordination, subsurface utility engineering, permitting, and soil borings.

Canal Road Improvements, Manatee County, FL

H&H Modeler. This project consists of converting an existing two-lane roadway to a new four-lane divided roadway for approximately 0.84 miles of Canal Road (16th Avenue East) from US 301 to 17th Street East. There is a large canal on the west side of the project corridor that will be enclosed as a box culvert for the entire length. The project contains upgrades to signals at the intersection with US 301 and the intersection with 17th Street East. CSXT has a railroad crossing at the middle of the project corridor that will be upgraded with new concrete tubs and a gate system for increased safety. The four-lane divided roadway contains 11-ft travel lanes, 5-ft bicycle lanes, 6-ft sidewalks, and median lighting. Manatee County utilities are also being upgraded due to roadway impacts.

Citywide Watershed Modeling, City of Fort Lauderdale, FL

H&H Modeler. HDR performed data collection of stormwater infrastructure attributes needed to populate and complete an existing geographic information system (GIS) database, and assisted the City with the implementation of new asset management software. HDR developed and implemented a hydraulic/hydrological (H&H) stormwater model of the entire City using ICPR version 4. The model consisted of a comprehensive basin-by-basin analysis of the existing and proposed stormwater systems, and how they react to different boundary conditions, including future projected climatological conditions such as sea level rise. Based on the model results, a master plan update will be developed that consists of individual neighborhood capital improvement projects (CIPs), especially in the areas found to be most susceptible to chronic flooding.

Reservoir No. 3 Design, Peace River Manasota Regional Supply Authority, FL

H&H Modeler. The Peace River Manasota Regional Water Supply Authority retained HDR Engineering, Inc. to provide the preliminary design of and permitting for a new, third reservoir (Reservoir No. 3) and associated infrastructure on the RV Griffin Reserve (Reserve) and Peace River Water Treatment Facility (PRWTF), including a new river water intake and pump station on the Peace River, raw water transmission main to the new and existing reservoir system, and new reservoir pump station.

Alternative Funding Strategies for Stormwater Master Plan, City of St Petersburg, FL

Project Manager. The City is seeking assistance with continued identification of alternative financing strategies to support future funding Stormwater Master Plan starting with the 5-year Capital Improvements Plan (CIP CR1s) and review opportunities to apply for grants, loans, and other funding sources. Strategies may include adjustments in CIP project timing or CIP project consolidation to better align with conditions of potential funding opportunities that are identified. In addition, 2024 storm events have changed and accelerated the City's approach and timeline for implementing resilient infrastructure, including the St. Petersburg Agile Resilience (SPAR) initiative among others. This scope of work will use the Alternative Funding Strategies Phase II alignment tool with an upload of stormwater projects for initial results and limited vetting and coordination with the City.



Tab E

APPROACH TO SCOPE
OF WORK

TAB E

APPROACH TO SCOPE OF WORK

1.0 Project Understanding

The City of Hollywood faces complex stormwater and flood risk challenges driven by flat, low-lying coastal topography, tidal influences, rising sea levels and groundwater elevations, and increasingly intense rainfall. These conditions are exacerbated along the barrier island by aging drainage infrastructure, resulting in recurring nuisance and storm-related flooding that threatens public safety and adjacent properties.

In response, the City and the Community Redevelopment Agency (CRA) are advancing resilient infrastructure improvements consistent with the City’s Stormwater Master Plan (adopted September 20, 2023). This project includes engineering services for Stormwater Pump Station No. 16 (SWPS #16), located along SR A1A (South Ocean Drive) between Jackson Street and Jefferson Street.

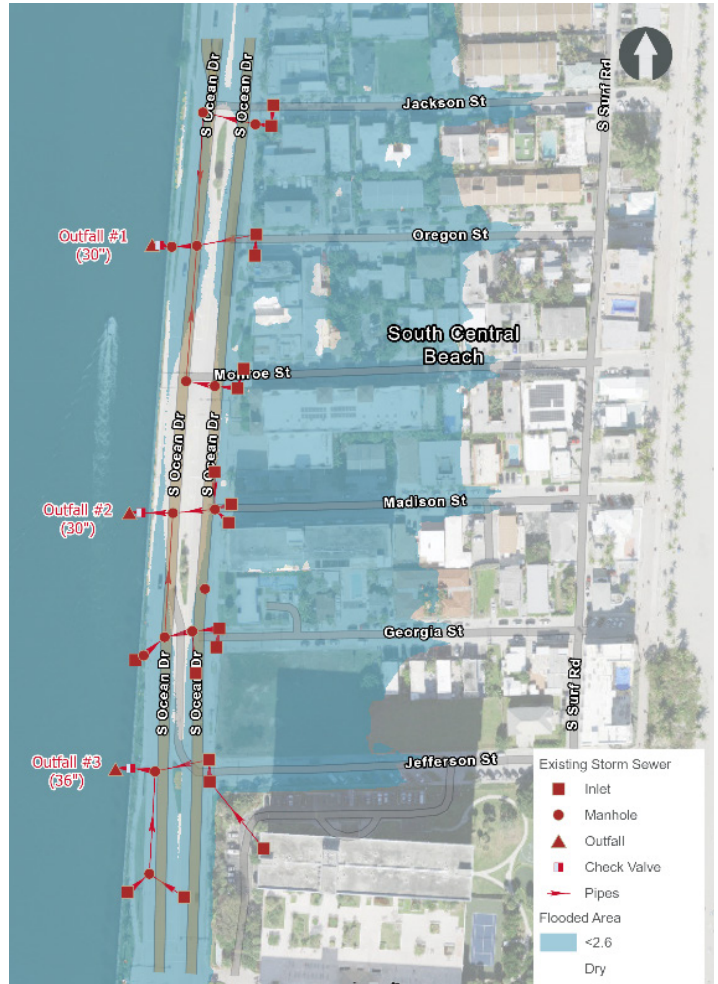
Within the project limits, three gravity drainage systems currently serve the A1A corridor and discharge to the Intracoastal Waterway through existing 30- and 36-inch outfalls. Although interconnected with the FDOT drainage system, these systems operate independently.

The project objective is to consolidate the three systems into a single, unified drainage system served by one stormwater pump station that meets City and FDOT flood protection level of service criteria.

The project must also consider compliance with the Florida Stormwater Nutrient Rule, effective December 28, 2025 , which is anticipated to require drainage injection wells or equivalent nutrient reduction measures.

Two adjacent stormwater pump station projects are currently under construction: the FDOT Van Buren Drainage System to the north and the CRA/City Azalea Drainage System to the south. The HDR’s proposed Project Manager, Alex Vazquez, previously served as Project Manager for the design of the FDOT Van Buren Drainage System and led the design scoping effort for the Azalea Drainage System. **Alex’s direct experience with both adjacent projects provides critical continuity, allowing seamless coordination, incorporation of lessons learned, and efficient delivery of the SWPS #16 project in full compliance with City and FDOT standards.**

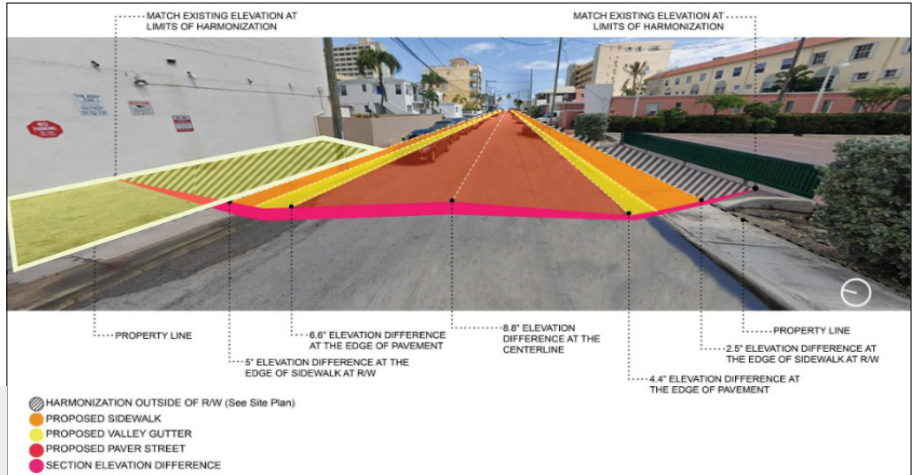
The HDR Team understands that the City is completing Phase IV: Undergrounding of Overhead Utilities and Streetscape Beautification (Phase IV project), which includes east-west streetscape improvements from



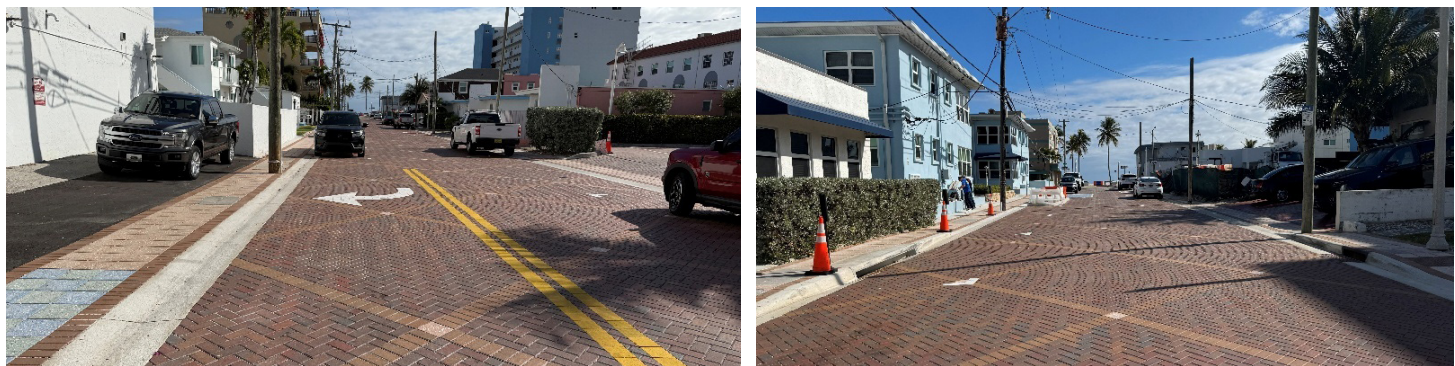
Project limits showing the three separate gravity drainage systems and current level of flooding

Harrison Street to Magnolia Terrace, extending from SR A1A to the Broadwalk, as well as improvements along SR A1A from Hollywood Boulevard to the City’s southern limits. Within the SWPS #16 project limits, the CRA and City are implementing roadway and drainage improvements along Jackson, Oregon, Monroe, Madison, Georgia, and Jefferson Streets, including supplemental drainage systems, raised roadway profiles to match adjacent sidewalks, and valley gutters to improve runoff conveyance and reduce localized flooding . As part of these broader streetscape and resiliency enhancements, overhead electrical utilities are being undergrounded throughout the corridor. The SWPS #16 design will be closely coordinated with these ongoing and completed improvements to minimize impacts to recently constructed infrastructure, preserve roadway and utility investments, and support efficient integration with the City’s capital improvement program.

As part of broader streetscape and resiliency upgrades, the CRA and City are also undergrounding existing overhead electrical utilities along these corridors. The proposed SWPS #16 design will be closely coordinated with these ongoing and completed projects to minimize impacts on recently constructed infrastructure, preserve roadway and utility improvements, and secure seamless integration with the City's capital improvement program.



Proposed roadway of Phase IV: Undergrounding of Overhead Utilities and Streetscape Improvements.



Phase IV completed segment of Jackson Street.

Based on our prior experience with similar efforts, the following are anticipated project challenges and HDR's proposed solution-based benefits. HDR's approach to addressing these challenges is further detailed in the Approach to the Scope of Services, where our proven technical strategy and coordination methods are outlined.

CHALLENGES	HDR SOLUTION-BASED BENEFITS
Repetitive flooding along SR A1A	<ul style="list-style-type: none"> Design and implementation of a new pump station to improve stormwater conveyance capacity, mitigate tidal backflow, and reduce roadway flooding.
High tailwater and groundwater conditions	<ul style="list-style-type: none"> Hydraulic modeling that accounts for elevated tailwater conditions, system configurations that improve reliability, and designs that maintain long-term performance.
Tight siting constraints	<ul style="list-style-type: none"> Evaluation of multiple layout alternatives, use of private parcels and easements where feasible, and compact, constructible footprints suitable for constrained urban corridors.
Utility and subsurface uncertainty	<ul style="list-style-type: none"> Use of 3D subsurface mapping, early conflict identification, and proactive coordination to reduce construction risk and change orders.
Multi-agency permitting complexity	<ul style="list-style-type: none"> Early coordination with regulatory agencies, structured permitting workflows, and streamlined approvals to minimize schedule impacts.
Power resiliency requirements	<ul style="list-style-type: none"> Evaluation of generator sizing, redundancy options, and alternative configurations to maintain system operations during outages. Evaluate the ability to increase generator capacity to support back up power for the Azalea Project to the south.
Coastal corrosion exposure	<ul style="list-style-type: none"> Selection of corrosion-resistant materials, coordination with operations staff, and implementation of preventative maintenance strategies.
Construction and right-of-way impacts	<ul style="list-style-type: none"> Design shifts away from major corridors where feasible, identification of staging areas, and minimization of traffic and access disruptions.
Public engagement needs	<ul style="list-style-type: none"> Structured stakeholder coordination, transparent communications, and proactive outreach to residents and businesses.

2.0 Approach to Scope of Work

2.1 Project Coordination

Effective project coordination and public outreach are critical to the successful planning, design, and implementation of stormwater improvements in the City of Hollywood. The City’s coastal environment, flat topography, tidal influences, and aging infrastructure create complex conditions that require stormwater solutions carefully coordinated with ongoing capital improvements, regulatory requirements, and community expectations.

Stormwater projects in Hollywood frequently intersect with roadway construction, utility upgrades, streetscape enhancements, and undergrounding of overhead electrical systems. **Coordination among the City, CRA, FDOT, utility providers, and other stakeholders is essential to avoid conflicts, protect recent investments, and integrate stormwater infrastructure with the City’s broader capital improvement program.** Proactive coordination reduces rework, controls costs, streamlines permitting, and supports schedule adherence within the constrained right-of-way typical of the barrier island.

Public outreach is equally important, as project corridors often traverse residential neighborhoods, commercial districts, and high traffic tourist areas where access and mobility are key concerns. Clear and consistent communication with residents, business owners, and visitors helps set expectations regarding construction activities and highlights the long-term benefits of flood mitigation, safety improvement, and community resilience. **Early and ongoing engagement supports public understanding, minimizes complaints, and facilitates coordination with elected officials and regulatory agencies.**

2.1.1 Project Meetings

Coordination with the CRA and City

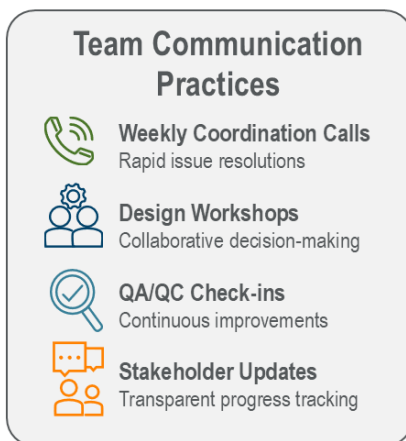
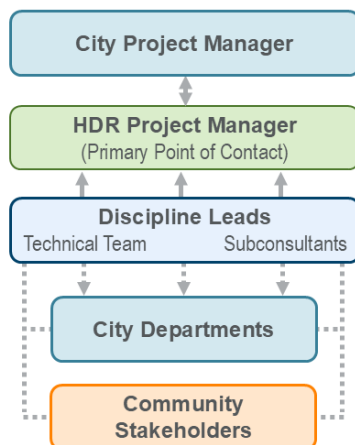
HDR will conduct a project kickoff meeting to establish the following:

- Project objectives, scope, and success criteria
- Roles and responsibilities of the City, HDR, and subconsultants
- Project schedule, key milestones, and critical path items
- Permitting strategy and agency coordination approach
- Communication protocols, meeting cadence, and reporting requirements
- Data needs, design standards, and technical assumptions
- Risk identification and mitigation strategies

Following the kickoff meeting, HDR will lead biweekly coordination meetings with CRA and City staff to review progress, upcoming milestones, and key issues requiring input or direction. Meetings will be held primarily in person, with virtual participation available as needed. HDR will prepare and distribute meeting minutes documenting key discussions, decisions, and action items.

HDR will also prepare monthly progress reports summarizing completed activities, upcoming tasks, schedule status, budget considerations, permitting milestones, and coordination items. These reports will support transparency, schedule management, and informed decision making throughout design and permitting.

STREAMLINED COMMUNICATION THAT KEEPS THE PROJECT MOVING FORWARD



Coordination with the Project Team and Subconsultants

HDR will provide centralized coordination for the full project team and all subconsultants through recurring coordination meetings tied to key milestones, including concept development, 30/60/90% design, permitting submittals, and final construction documents. Roles, responsibilities, and communication pathways will be clearly defined at project initiation.

Interdisciplinary reviews will be performed at each milestone to coordinate hydraulic performance, structural and electrical systems, constructability, maintenance access, and interfaces with adjacent stormwater, roadway, and utility projects. HDR will manage design elevations, operational criteria, tie-in points, and phasing to minimize conflicts and preserve recently completed infrastructure.

Meeting minutes, action item logs, and decision registers will be maintained to track responsibilities, monitor progress, and support accountability throughout the project lifecycle.

Public Outreach

In collaboration with Heather Leslie, Principal, and Melissa Rodriguez, Senior Community Outreach Specialist of HML Public Outreach, our strategy aligns with the City's goals to reduce flood risk and address sea level rise through inclusive, milestone-driven engagement. The approach is tailored to reflect the unique character of Hollywood Beach neighborhoods and emphasizes clear, bilingual communication at critical stages of the design process.



The HML Team at the ground breaking of a beautification project.

HML brings extensive experience and lessons learned from its current support of the City's Phase IV project, for continuity and a deep understanding of community expectations.

Engagement Milestones

- **Stakeholder Database:** Maintain a comprehensive, up-to-date contact list to facilitate mailings, project updates, and coordination with residents and businesses.
- **Outreach Materials:** Develop bilingual fact sheets, mailers, and digital content in coordination with City staff for clarity and accessibility.
- **60% Design Public Meeting:** Host a community meeting to present design plans, gather feedback, and address questions prior to construction.
- **Targeted Section Meetings:** Conduct focused discussions on localized impacts, including construction timelines, traffic management, and design aesthetics.
- **Stakeholder Coordination:** Engage directly with key stakeholders and residents near pump station sites to address access concerns and minimize disruptions.



Community meetings provide a forum to share design progress and gather stakeholder input.

All outreach activities and documentation will be compiled into a final archive for the City’s records, reinforcing transparency and supporting responsive community engagement throughout the project lifecycle.

2.2 Data Collection

Accurate data collection is fundamental to minimizing risk and supporting informed design decisions for the SWPS #16 project. **HDR’s approach integrates existing records review, supplemental field investigations, subsurface utility engineering, geotechnical evaluation, environmental assessment, and right-of-way analysis to develop a comprehensive understanding of site conditions and constraints.**

2.2.1 Review of Existing Utility Records

HDR conducted a comprehensive review of available utility and infrastructure records to identify potential conflicts and establish baseline conditions. This effort included collecting and validating documentation from City archives, utility providers, and previous project files. **Early identification of discrepancies reduces the potential for unforeseen conflicts and supports effective space planning within the constrained right-of-way.**

As part of this process, HDR reviewed the project Basis of Design Report (BODR) prepared by BCC in July 2024, which includes GIS data, record drawings, permitting information, and public and private utility records. Key data sources of the BODR included City of Hollywood GIS mapping, FDEP LABINS data, USDA NRCS soils information, NOAA tidal records, as-built plans, and Phase IV project plans (Kimley Horn, 2022-2023). These materials were organized and analyzed to document existing stormwater, sanitary sewer, water main, and outfall conditions.

2.2.2 Surveying and Utility Locates

To supplement existing survey data developed for the Phase IV project, HDR will perform additional survey efforts to capture recent modifications and site-specific conditions. As-built plans from the Phase IV project will also be incorporated into the design set.

HDR will utilize mobile LiDAR technology to efficiently collect high-resolution surface data while minimizing field time and impacts. This approach supports real-time validation, comprehensive coverage, and improved accuracy, providing an up-to-date representation of surface features and infrastructure relevant to pump station siting and stormwater improvements.



Utility Contact List			
Utility Type	Utility Identifica	Contact Name	Email Address
Electric	2725	Morgan Smith	Email
Communica-tions/Fiber	2736	Jessica Miller	Daniel Brown
Gas	67	Daniel	

3D Utility Mapping Approach to eliminate utility conflicts during construction.

2.2.3 Subsurface Utility Engineering and Geotechnical Investigation

HDR’s Subsurface Utility Engineering (SUE) approach focuses on improving the positional accuracy of underground utilities in the limited right of way available for the proposed pump station and conveyance infrastructure. Even modest gains in accuracy significantly improve constructability and design confidence.

A Utility Matrix will be developed to document utility type, ownership, horizontal and vertical location, and potential conflicts. This information will be integrated into an Autodesk Civil 3D model to support three dimensional coordination of existing utilities and proposed improvements. HDR will coordinate with the City, FDOT, and utility providers to identify planned or recent utility installations and incorporate this information into the Utility Matrix and 3D model.

HDR will also conduct geotechnical investigations to supplement available soil data from the BODR and USDA NRCS Web Soil Survey. These investigations will support design of deep excavations, large diameter pipes, foundations, and drainage injection wells by evaluating soil conditions, groundwater levels, settlement potential, and structural considerations common to coastal environments.



2.2.4 Environmental Assessment

The SWPS #16 project includes three existing outfalls discharging to the Intracoastal Waterway. HDR will evaluate environmental requirements associated with these outfalls, including hydraulic modifications intended to reduce discharge velocities and potential stabilization needs. Environmental investigations may include bathymetric surveys, wildlife assessments, wetland delineations, and benthic surveys, including seagrass surveys conducted during the appropriate growing season, as required for permitting.

Survey results will be overlaid with the proposed design to quantify potential impacts and identify mitigation needs.

HDR's team brings direct experience permitting similar stormwater pump station projects discharging to tidal waterways, including multiple projects for the City of Fort Lauderdale.

2.2.5 Right-of-Way and Easement Investigation

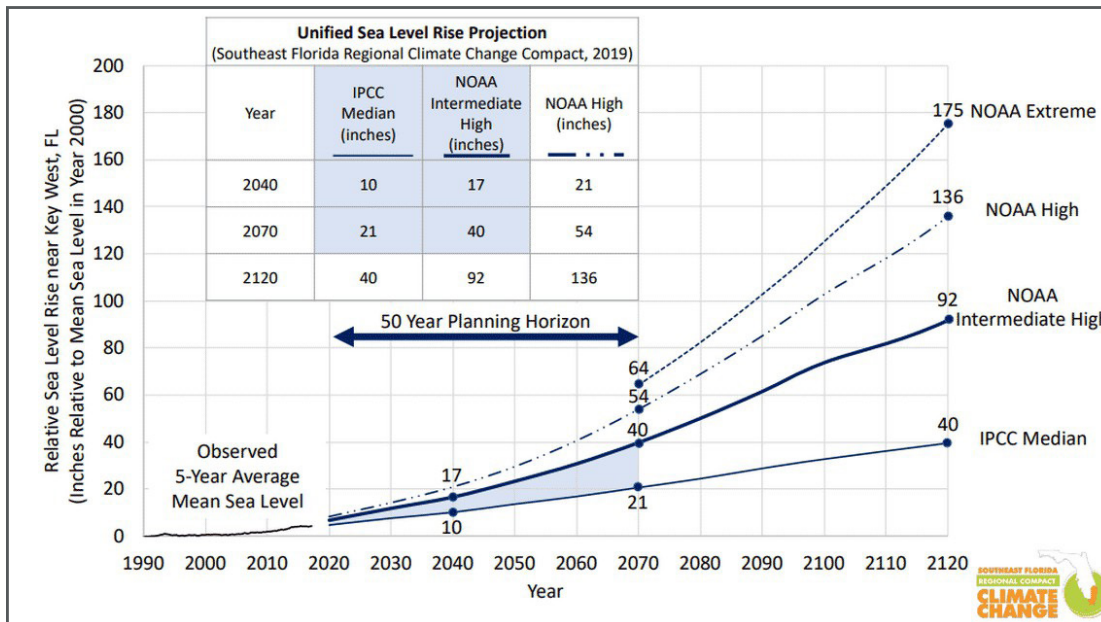
HDR and Keith will investigate right of way availability and easement needs to support construction and long term operation of the proposed facilities. If private easements are required, HDR will prepare exhibits, renderings, and presentation materials illustrating proposed improvements and streetscape enhancements to support property owner coordination.

HDR will assist with land acquisition or disposition support, including preparation of legal sketches, legal descriptions, Commission items, and coordination with City staff. **Drawing from similar projects in Fort Lauderdale, Miami Beach, and Monroe County, HDR and Keith bring proven experience resolving right of way constraints while supporting community objectives and stakeholder coordination.**

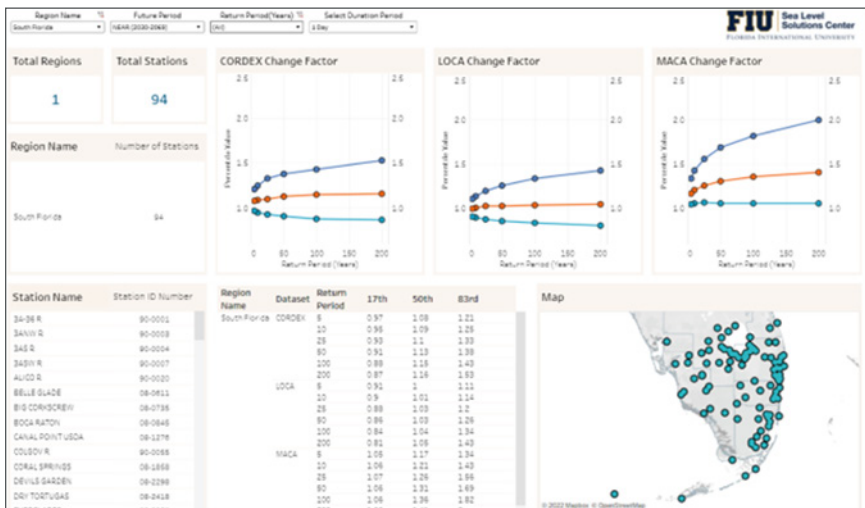
2.3 Basis of Design Report for Stormwater Pump Station and Generator Siting Alternatives

The CRA and City have provided the BODR for SWPS #16 prepared by BCC in July 2024. HDR will refine and advance this BODR by incorporating project-specific data developed as part of this effort, including updated surveys, right-of-way assessments, utility investigations, geotechnical data, and environmental findings. **Using this expanded dataset, HDR will develop design-level hydrologic, hydraulic, and water quality analyses to support evaluation of three stormwater pump station and generator siting alternatives and inform selection of a cost-effective, resilient, and permittable final design.**

The refined BODR will document the basis of design for each alternative, including hydrologic and hydraulic criteria, pump station sizing approach, generator siting and power concepts, resiliency elevations, implementation of Best Management Practices (BMPs) to meet nutrient reduction requirements under the Florida Stormwater Rule, and operational concepts addressing redundancy and emergency response.



Southeast Florida Regional Climate Change Compact Adopted Sea Level Rise Projections



2.3.1.2 Water Quality Modeling

The Florida Stormwater Nutrient Rule requires the SWPS #16 drainage system to achieve 80% reductions in total nitrogen and total phosphorus for discharge to the Intracoastal Waterway. Under the updated Rule, treatment devices used on earlier projects are no longer sufficient as standalone solutions. **HDR will evaluate a range of proven, space-efficient BMPs compatible with hydraulic requirements, right-of-way constraints, constructability, and long-term maintenance considerations.**

Potential BMPs include tree treatment boxes, inlet cartridge filters, drainage injection wells, upflow and downflow filters, permeable pavement, bioretention areas, and proprietary nutrient removal systems.

FIU Project Rainfall Intensity Increasing for Various Planning Horizons. For a 2060 Planning Horizon, it is anticipated that rainfall intensities can increase by as much as 25%.

2.3.1.1 Hydrologic and Hydraulic Modeling

HDR will update the Stormwise hydrologic and hydraulic model used for the original BODR, incorporating newly collected survey data and supporting information. The revised model will reflect current NOAA sea level rise projections, rainfall intensity projections developed by the FIU Sea Level Solutions Center, and Broward County seasonal high groundwater elevations associated with the adopted 2060 sea level rise planning horizon.

The model will be used to establish baseline conditions for the 5, 10, 50, and 100-year storm events, including peak stages, flows, and discharge characteristics to the Intracoastal Waterway. HDR will also coordinate closely with the Azalea Stormwater Pump Station project by integrating existing and proposed condition models to evaluate combined system performance, potential outfall sharing, and operational compatibility. This coordinated analysis supports informed decision making and may reduce right-of-way, permitting, and construction risks. For each of the three pump station siting alternatives, HDR will evaluate system performance under design storm and resiliency scenarios, including future sea level rise, increased rainfall intensities, and seasonal high groundwater conditions. **Alternatives will be compared based on roadway flood depths and durations, hydraulic grade line elevations, pump and outfall capacity, constructability, and relative capital and lifecycle costs.** Stormwise GIS-based flood mapping will be used to develop clear, decision-oriented graphics for presentation to the CRA, City staff, elected officials, stakeholders, and the public.

In addition to water quality benefits, selected BMPs can support flood reduction for frequent storms, groundwater recharge, urban cooling, habitat enhancement, and integration with streetscape improvements.

HDR will use BMPTrains, the FDOT-approved modeling tool developed by the University of Central Florida, to evaluate and compare multiple treatment trains and identify the most effective and cost-efficient BMP combinations that meet required nutrient reduction targets.



Tree Box Best Management Practice to Provide Nutrient Removal in Condensed Footprint.



Field observations conducted throughout the project corridor, which captured existing conditions, directly informed HDR's evaluation of alternatives.

2.3.2 Alternatives Pump Station Location Study

Context and Drivers

HDR recognizes this initiative as a cornerstone of the City of Hollywood's broader resilience strategy. The project area presents a complex set of conditions that shape siting and design decisions:

- **Flat, Low-Lying Topography:** Limited elevation relief constrains gravity conveyance and heightens flood susceptibility.
- **Tidal Influences:** Water levels and tailwater conditions vary with tides, affecting conveyance, outfall performance, and bypass feasibility.
- **Increasing Rainfall Severity and Frequency:** Intensifying rainfall patterns require reliable conveyance, storage, and pumping to meet level of service objectives.

Initial Assessment and Due Diligence

HDR conducted field visits to document existing conditions and active construction constraints in the project area, noting that the Phase IV project is underway and is located adjacent to two pump station projects (FDOT's Van Buren to the north; CRA's City Azalea to the south). HDR's site visits focused on:

- Proximity to and interface with active construction zones and recently completed work.
- Opportunities to integrate new infrastructure with completed streetscape and drainage features.
- Accessible, low-lying footprints with sufficient right-of-way for pump station, control assets, and water quality facilities.

In parallel, HDR reviewed the BODR provided by the City and assessed two candidate locations identified therein. Building on that evaluation, HDR developed three siting alternatives that balance performance, feasibility, resiliency, coordination, and permitting considerations.

Critical Evaluation Criteria

To promote a successful, constructible, and maintainable solution, HDR prioritized the following:

1. Ground Elevations

- Favorable elevations to limit excavation depth and dewatering effort.
- Reduced construction complexity and associated cost

2. Utility Conflicts

- Early identification of above and below ground utilities.
- Avoidance of critical sewer mains and high voltage feeders where feasible.

3. Adjacent Property Impacts

- Compatibility with surrounding land uses and streetscape.
- Proactive treatment of easement and access requirements.

4. Power Supply and Redundancy

- Available service capacity and route feasibility for new feeders.
- Generator siting and safe fuel logistics for extended operations.

5. Constructability and Access/O&M

- Reliable vehicular access for Vactor trucks, cranes, and maintenance crews.
- Safe equipment access, clearances, and dry weather serviceability.

6. Traffic, Parking, and Streetscape

- Minimized parking loss; maintenance of pedestrian and bicycle access.
- Temporary MOT strategies compatible with A1A and side street operations.

7. Environmental and Permitting

- Compatibility with outfall conditions, seawalls, and tidal hydraulics.
- Efficient agency coordination (City/CRA/FDOT/SFWMD/Environmental).

8. Right of Way/Easements

- Sufficient footprint for pump station, control structures, and BMPs.
- Preference for public owned land to limit acquisition and schedule risk.

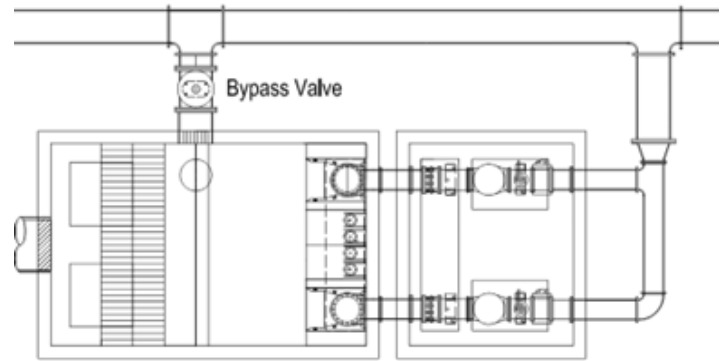
Common Design Elements Across Alternatives

Regardless of location, each alternative carries a consistent set of core features:

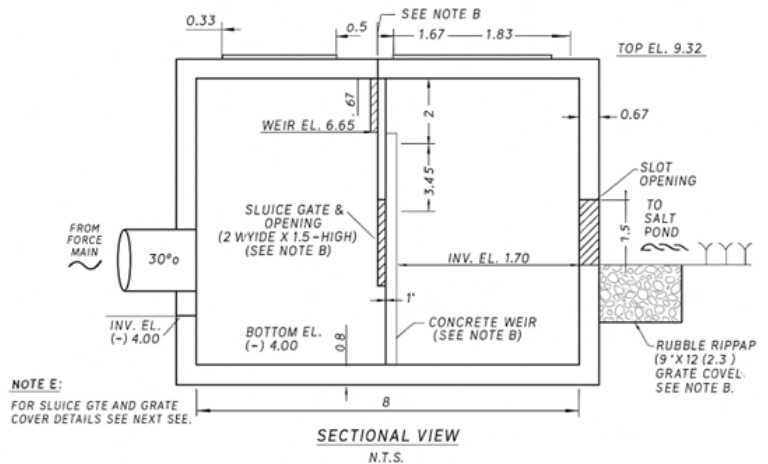
Pump Station Infrastructure: Wet well and pump selection sized to meet modeled design storms and tidal tailwater conditions; isolation and check valving; trash racks and screening appropriate for debris loading.

Manufacturer Coordination: HDR understands the City commonly uses **Xylem Flygt** pumps; HDR will coordinate with the City's Operations group to confirm selection, spares commonality, and maintenance preferences.

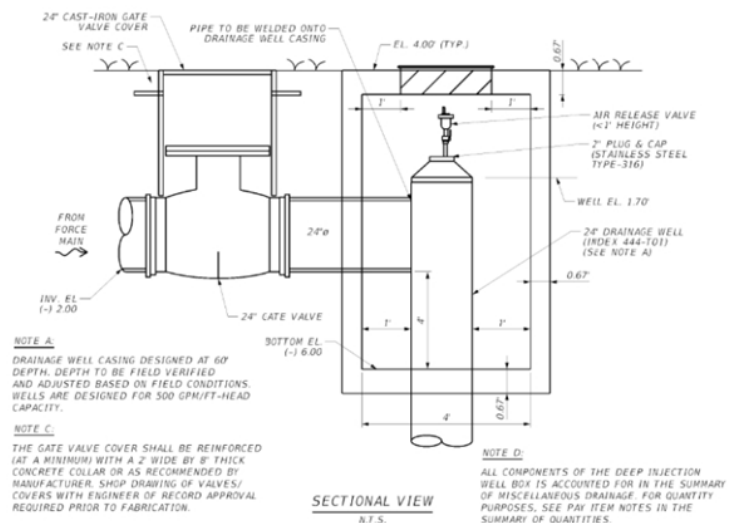
Funding Compliance: If grants apply, HDR will confirm pump procurement pathways meet **Buy America** provisions and other grant conditions to maintain eligibility and schedule.



Control Structure and Bypass: A control structure directing flow to existing outfalls and the pump station, with consideration of a **sluice gate** or equivalent bypass capability for contingency operations during power outages. Tidal levels may limit bypass effectiveness, which will be explicitly addressed in modeling and O&M planning.



WaterQuality Treatment: To comply with updated SFWMD Environmental Resource Permit (ERP) water quality criteria and the Florida Stormwater Nutrient Rule, a drainage injection well system is proposed as the primary nutrient reduction strategy, acknowledging that CDS units and similar devices are no longer acceptable as standalone solutions under the revised criteria.



Above Ground Elements: These elements will include the control panel(s), transfer switch, communication antennae, and **generator (with potential upsizing to serve SWPS #16 and the Azalea system if jointly feasible)**. All appurtenances will be placed above flood elevations and screened in alignment with the streetscape program.

Outfall Strategy: Reuse of existing outfalls will be evaluated in all alternatives, including potential **interconnection** of the three outfalls to optimize system performance and **in situ lining** to extend service life where warranted.

ALTERNATIVE 1

Jefferson Street (Recommended)

Concept: Locate the pump station within the Jefferson Street corridor, a 50-foot ROW (largest within project limits), in a low-lying area favorable for conveyance. The anticipated pump station footprint (inclusive of trash rack, wet well, and valve assemblies) is roughly 20' × 50'. Components may be placed underground and at grade to maintain functionality while preserving surface use for vehicular access. The HDR Team has implemented comparable designs in coastal municipalities such as Miami Beach.

KEY FEATURES AND SITING:



Pump Station: Jefferson Street corridor; avoids the critical sewer line, reducing conflict risk.



Control Structure: Located in the A1A median at Jefferson Street, within available green space; structure elevated (not at grade).



Injection Wells: Distributed along Jefferson Street using existing parking spaces and the east parking lot, targeting capacity needs without new land acquisition.



Control Panel: Integrated with the Phase IV project's beautification elements at the southwest corner of Jefferson Street and Surf Road. Maintain a clear communication path with pump station; elevate above flood design levels.



Generator: Sited in existing green space and a small portion of the parking lot, coordinated with Parking and Urban Design to balance function and aesthetics with screening and landscaping.



Outfall Strategy: Reuse existing outfall(s); evaluate interconnection of all three outfalls and in situ lining where advantageous.

Advantages:

- Largest ROW and low-lying profile support hydraulic efficiency and access.
- Minimal disruption to the Phase IV project's drainage network; reduced demolition and reconstruction costs.
- High degree of City control over siting and coordination.
- Streamlined permitting when work remains within City ROW.
- Strong platform for future scalability (wells, BMP expansion, or pump upgrades).

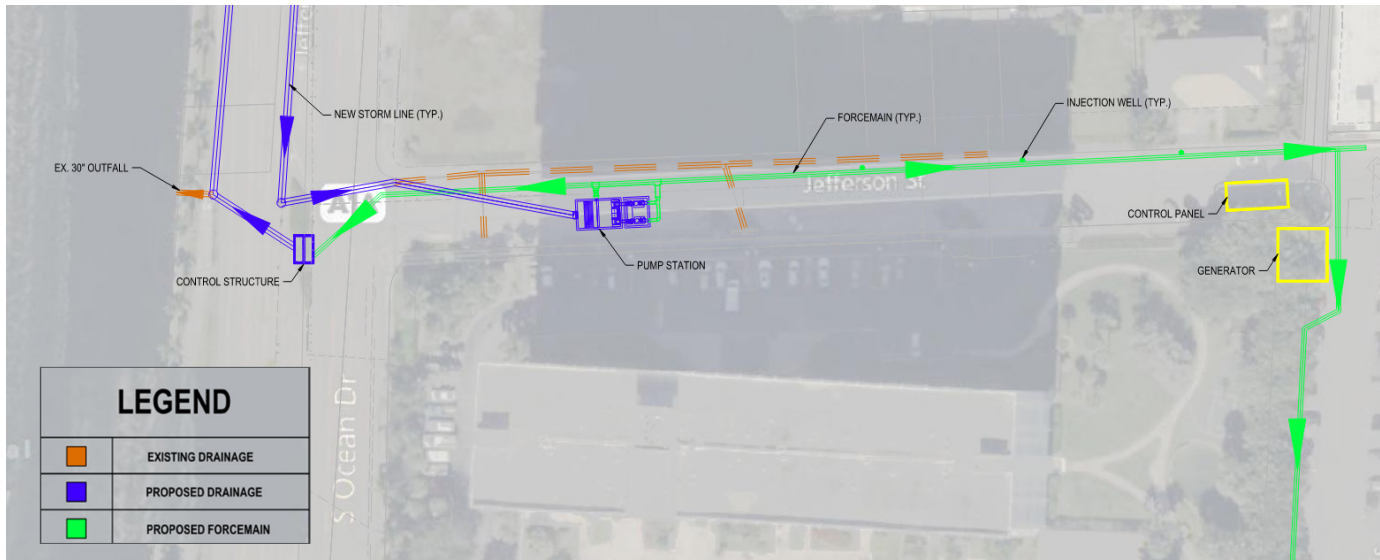
Disadvantages / Risks and Mitigations:

- Additional pipe length required to tie three gravity systems to the pump station (common to all alternatives).
- FDOT coordination needed for the median control structure, address early with conceptual submittals and anchorage/seawall constraint evaluation.
- Parking and green space impacts from generator and wells, address through targeted siting, screening, and stakeholder coordination.

Schedule and Cost Notes:

- Favorable schedule profile due to City ROW and limited reconstruction of recent work.
- Major cost drivers: excavation/shoring, long laterals, medium voltage service, generator footprint, and well count/capacity.

Alternative 1 Proposed Sites



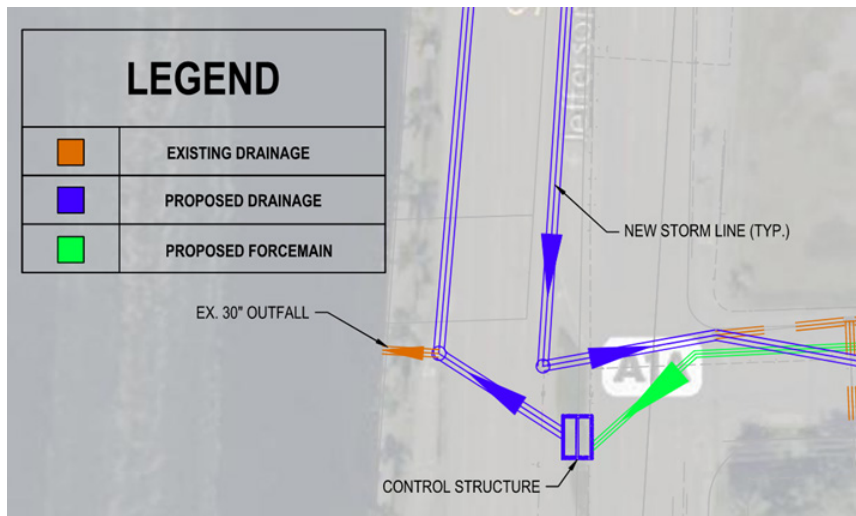
Proposed Alternative 1 Overview



Proposed Pump Station Site



Proposed Control Panel Site



Control Structure and Outfall



Injection Wells



Proposed Generator Site

ALTERNATIVE 2

Monroe Street (Near Fire Station #40)

Concept: Site the pump station in the **Monroe Street** corridor (approx. 40 foot ROW) at a **low lying** location that avoids the critical sewer main. Proximity to **City owned Fire Station #40** (first floor parking garage) creates opportunities for control panel or generator siting with reduced neighborhood impacts.

KEY FEATURES AND SITING:



Pump Station: Monroe Street corridor; avoids the critical sewer line; provides efficient access for O&M.



Control Structure: Within the A1A median between Madison and Georgia Streets; elevated installation in existing green space.



Injection Wells: Deployed in north side parking spaces along Monroe Street to utilize available ROW.



Control Panel:

1. Use a vacant lot (in front of the fire station; owned by 300 Oregon Street) for panel and generator, requires land acquisition.
2. House the control panel in the fire station garage and place the generator in designated fire station parking along Madison Street, requires formal approval from Fire Station management.



Outfall Strategy: Reuse existing outfall(s), interconnect where feasible, and evaluate in situ lining to extend service life.

Advantages:

- Access to City facilities can reduce community impacts and facilitate coordination.
- Phase IV drainage network remains largely intact, limiting demolition.
- Multiple siting options for control assets increase flexibility under ROW constraints.

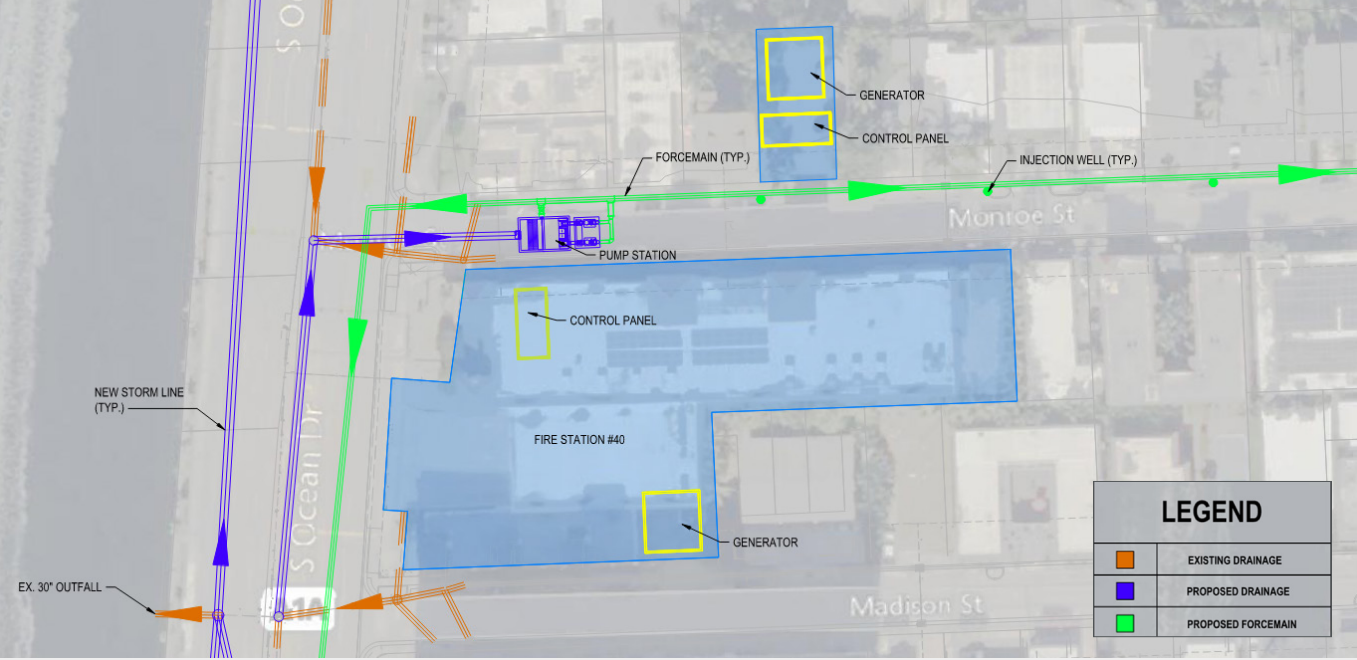
Disadvantages / Risks and Mitigations:

- Potential land acquisition or formal property use approvals (Fire Station) introduce schedule/cost risk; pursue early negotiations.
- FDOT coordination for median control structure, advance early review and anchorage considerations.
- North side parking impacts for well fields, minimize footprint and coordinate with Parking and businesses.

Schedule and Cost Notes:

- Schedule comparable to Alternative 1 if acquisition/ approvals progress early; otherwise, risk of delay.
- Cost drivers mirror Alternative 1, with added allowance for property acquisition or retrofits within Fire Station areas.

Alternative 2 Proposed Sites



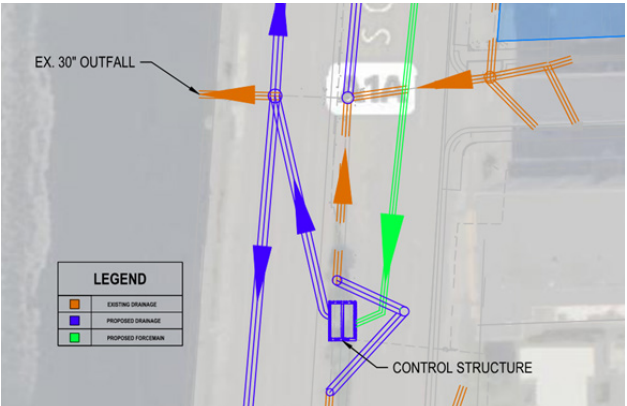
Proposed Alternative 2 Overview



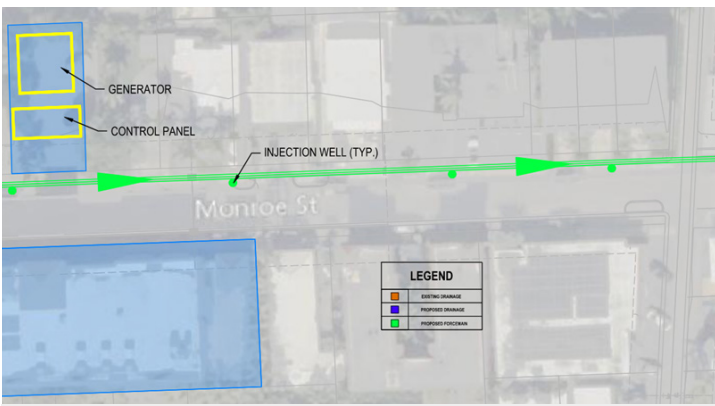
Proposed Pump Station Site



Proposed Control Panel and Generator Site



Control Structure and Outfall



Injection Wells



Proposed Control Panel and Generator Site

ALTERNATIVE 3

SR A1A Median (South of Jackson Street)

Concept: Locate the pump station within the SR A1A median (south of Jackson Street), with all components installed underground to limit surface disruption. Minor median realignment may be required. The alternative avoids the critical sewer main and keeps improvements within FDOT ROW, limiting impacts to City ROW.

KEY FEATURES AND SITING:



Pump Station: Underground construction partially within the A1A median.



Control Structure: In adjacent A1A green area; requires seawall modifications and elevated placement.



Injection Wells: Located within A1A where feasible.



Control Panel: Limited A1A ROW favors re-use of feasible options from Alternative 2 (e.g., vacant lot or Fire Station locations). Note: No direct line-of-sight may affect communications; design for reliable telemetry and redundancy.



Outfall Strategy: Reuse existing outfalls; evaluate interconnection and in-situ lining.

Advantages:

- Minimal direct impact to City ROW and recent City streetscape investments.
- Consolidated construction footprint within a state controlled corridor.

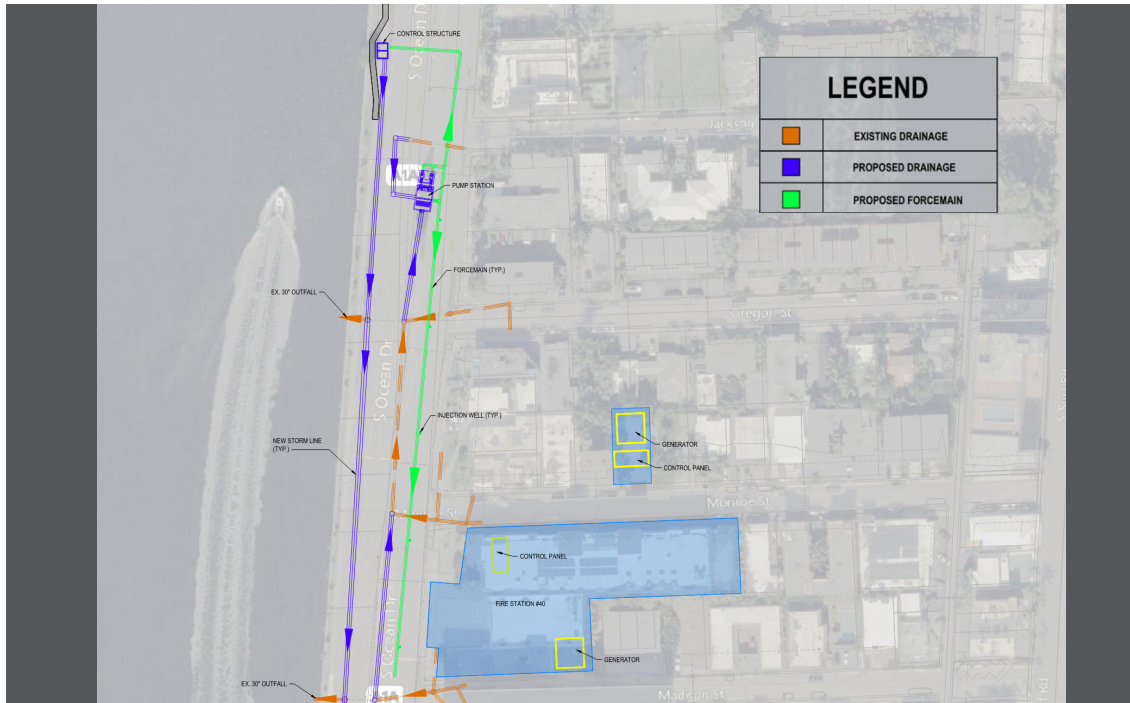
Disadvantages / Risks and Mitigations:

- FDOT centric permitting is more complex and may extend schedule.
- Seawall modifications and elevated control structure increase geotechnical and structural complexity.
- Communications and access challenges due to lack of direct line of sight; address with robust SCADA and antenna siting.
- MOT and traffic management on A1A are more demanding, affecting cost and schedule.

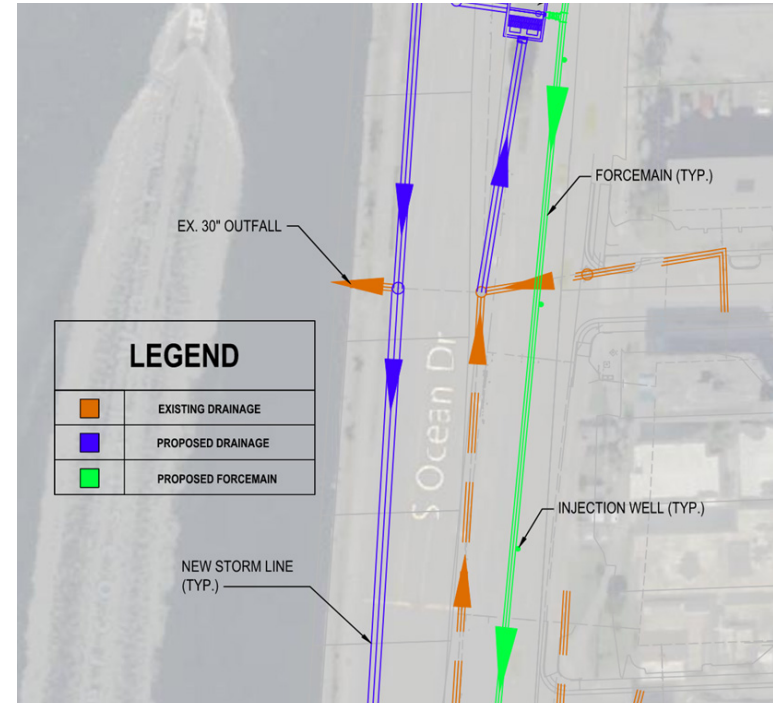
Schedule and Cost Notes:

- Longer permitting path and MOT complexity likely extend schedule relative to Alternatives 1 and 2.
- Cost drivers include deep median construction, seawall work, specialized MOT, and communications upgrades.

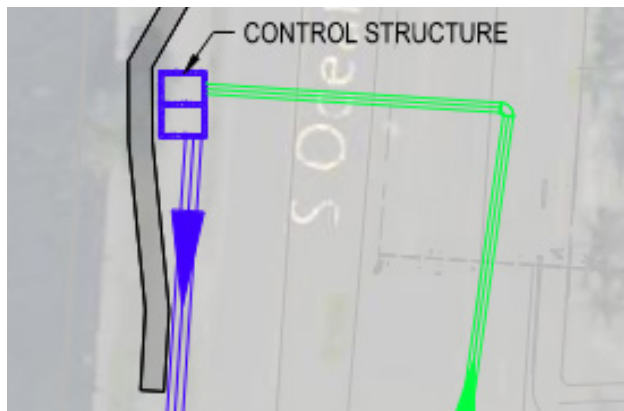
Alternative 3 Proposed Sites



Proposed Alternative 3 Overview



Injection Wells




Control Structure



Proposed Pump Station Site / Typical Median Pump Station Location

Comparative Summary (High Level)

Criterion	 ALTERNATIVE 1 Jefferson Street	ALTERNATIVE 2 Monroe Street	ALTERNATIVE 3 SR A1A Median
ROW Control	Strong (City ROW; 50')	Moderate (City ROW; 40'; possible acquisition)	Limited (FDOT ROW)
Elevation/Hydraulics	Favorable low-lying corridor	Favorable low-lying corridor	Median sitting; deep/complex
Utility Conflicts	Avoids critical sewer	Avoids critical sewer	Avoids critical sewer
Control Structure	SR A1A median at Jefferson Street	SR A1A median (Madison–Georgia Streets)	SR A1A green area; seawall mods
Injection Wells	Jefferson Street parking & east lot	North parking on Monroe Street	Within SR A1A ROW
Panel/Generator	On corridor, coordinated with Phase IV project	Vacant lot or Fire Station options	Likely off corridor options; telemetry focus
Outfall Reuse	Strong; interconnection feasible	Strong; interconnection feasible	Strong; interconnection feasible
Permitting Complexity	Lower (City)	Lower–Moderate (City + acquisition/approvals)	Higher (FDOT focus; seawall)
Impact to Phase IV Project	Minimal	Minimal	Minimal direct; heavy MOT on SR A1A
Schedule Risk	Lower	Moderate (approvals/acquisition)	Higher (FDOT path, MOT)
Relative Cost	Lower–Moderate	Moderate	Higher



Existing Site Conditions and Project Constraints within the Project Limits.



Early field investigations and constructability considerations inform design development (Azalea Project).

- Preliminary pump sizing, structural systems, electrical one lines, and controls
- Updated hydraulic modeling and drainage plans
- Agency coordination and updated OPCC
- Draft technical specifications and 60% design review

90% Design – Pre-Final

Prepares near-complete construction documents:

- Final plans, details, schedules, and specifications
- Integration of permit conditions and commitments
- Internal quality control, constructability review, and refined OPCC
- 90% design review

Final Design – Issued for Bid

HDR will deliver sealed, construction-ready documents, including drawings, specifications, and bid packages, coordinated with City bidding requirements.

2.4 Construction Contract Documents

2.4.1 Design and Specification Development

Upon acceptance of the refined/enhanced BODR and selected pump station and generator sites, HDR will advance SWPS #16 through a milestone-based design process focused on constructability, regulatory coordination, and cost control. Each phase will incorporate City input, agency considerations, and value-focused refinements.

30% Design – Conceptual

Establishes feasibility, layout, and permitting approach:

- Preliminary layouts for pump station, force mains, gravity systems, outfalls, inlets, and site improvements
- Identification of environmental, right-of-way, and permitting constraints
- Preliminary specifications outline and initial OPCC
- 30% design review with the City

60% Design – Intermediate

Advances coordinated technical design and regulatory readiness:

- Refined civil, structural, mechanical, and electrical designs

2.4.2 Value Engineering

HDR will apply a structured Value Engineering (VE) process throughout the project design to improve constructability, reduce risk, and manage lifecycle costs. VE efforts will focus on early evaluation of assumptions, multidisciplinary reviews, lifecycle cost considerations, constructability improvements, and compatibility with City operations and permitting requirements. VE recommendations will be documented with cost, schedule, and risk implications for the City's review.

2.4.3 Opinion of Probable Construction Cost

HDR will prepare OPCCs at the 30%, 60%, 90%, and Final design milestones using a bottom up approach based on detailed quantities, recent bid data, and project-specific risks. Estimates will reflect market conditions, material price volatility, tariffs, and Buy American Build America considerations.

Risk-based contingencies will be scaled to design maturity and tied to identified uncertainties such as subsurface conditions, utility conflicts, environmental constraints, and procurement lead times. Each OPCC will undergo internal quality control reviews and be presented to the City with clear assumptions and cost drivers.

2.5 Permitting

HDR's permitting team brings extensive experience coordinating environmental approvals for coastal stormwater pump stations throughout South Florida. Our proposed Environmental Permitting Lead, **Ken Hungington** previously served as a reviewer for both SFWMD and FDEP, providing direct insight into regulatory expectations and review processes.

Anticipated Permits and Approvals

- **SFWMD:** Environmental Resource Permit (ERP)
- **USACE:** Sections 404/10 authorization for tidal outfalls; Section 408, if applicable
- **Broward County Environmental Permitting Division:** Surface Water Management License
- **FDOT District IV:** Drainage Connection Permit (Chapter 14 86, F.A.C.)
- **City of Hollywood:** Building and site development permits
- **FDEP:** NPDES Construction Permit and Class V Drainage Injection Well Permit

Consultation will also be required with **FWC, USFWS, and NMFS** for protected species and Essential Fish Habitat.

Permitting Approach

HDR will pursue a **parallel permitting strategy**, initiating federal coordination early while advancing state and local permits in coordination with design. Key elements will include:

- Early SFWMD ERP coordination addressing tidal hydraulics, groundwater interaction, dewatering, and nutrient reduction requirements under the Florida Stormwater Nutrient Rule
- USACE coordination under Nationwide Permit 7 for outfalls, including required agency consultations
- Early Broward County EPD coordination to align County review with state and federal approvals
- FDOT coordination to document compatibility with SR A1A drainage systems and meet Chapter 14 86 requirements
- City Building Division coordination for structural, electrical, and site permits, consistent with Florida Building Code and coastal flood-resistant criteria

HDR will prepare permit applications, technical analyses, and supporting documentation; coordinate responses to agency comments; and align permit conditions with construction documents and phasing.

Permitting and regulatory coordination will involve engagement with agencies such as those shown below. HDR's team brings deep, practical experience navigating approval processes, technical reviews, and interagency coordination.



Broward County



Florida Department of Environmental Protection (FDEP)



Florida Department of Transportation (FDOT)



City of Hollywood



South Florida Water Management District (SFWMD)



US Army Corps of Engineers®

U.S. Army Corps of Engineers (USACE)



SWPS #16 Permitting Matrix

Project Component	Permitting / Approval	Governing Agency	Primary Code/Authority	Key Review Considerations	HDR Permitting Approach
Stormwater Pump Station Wet Well (underground)	ERP	FDEP/SFWMD	Chapter 62-330, F.A.C.	Stormwater quantity and quality compliance; construction dewatering; groundwater interaction; redevelopment criteria	Early ERP coordination; parallel design/permitting; use of prior pump station ERP precedents
	Surface Water Management License	Broward County	Broward County Code, Ch. 27	Flood protection, downstream impacts, operability and maintenance	County pre-application meeting; consistency with future-conditions flood mapping
Outfalls to Intracoastal / tidal waters	ERP	FDEP / SFWMD	Chapter 62-330, F.A.C.	Tidal tailwater, scour protection, water quality, and construction methods	Coordinate ERP and federal permits concurrently
	Section 408 Permission	USACE	USACE Section 408	Proximity to navigable channel; impacts to the federal project	Initiate early USACE coordination to manage long lead time
	Section 10 / 404 (if applicable)	USACE	Rivers & Harbors Act / Clean Water Act	Work in navigable waters; construction footprint	Confirm applicability early; integrate with 408 submittal
Electrical panels, generators, above-ground structures	City Building / Electrical Permits	City of Hollywood	Florida Building Code; City Code	Structural, electrical, flood elevation, and generator placement	Coordinate elevations and clearances early; phased permitting if needed
	Zoning / Land Development Review (if applicable)	City of Hollywood	City Code / Land Development Regulations	Setbacks, aesthetics, noise, right-of-way constraints	Advance coordination with the City Engineer and Planning
City Right-of-Way (ROW) impacts	ROW Use / Construction Permit	City of Hollywood	City Code Ch. 55	Restoration, traffic control, access, and construction sequencing	Integrate MOT and restoration plans into design
	Utility Coordination / SUE Approval	City of Hollywood	City Engineering Standards	Dense utilities; undergrounding coordination	Perform SUE and coordinate with City's undergrounding program
FDOT drainage system connections (SR A1A)	Drainage Connection Permit	FDOT	Chapter 14-86, F.A.C.	Hydraulic impacts, shared outfalls, and maintenance responsibility	Early FDOT coordination; document mutual system benefits
	FDOT Utility / ROW Permit (if required)	FDOT	FDOT Utility Accommodation Manual	Work within FDOT ROW	Coordinate permits with drainage connection approval
Construction phase (all alternatives)	NPDES Construction Generic Permit (CGP)	FDEP	Clean Water Act / CGP	Erosion control, SWPPP, inspections	Contractor-led CGP with HDR oversight and compliance support

2.6 Bid and Award Services

HDR will assist the City with preparation of bid documents and support the procurement process for projects designed under this contract. Drawing on experience with similar stormwater and flood mitigation projects, HDR will support an efficient, transparent bidding and award process.

Key bid phase services will include:

- **Final Contract Document Review:** HDR will provide final contract documents to the City's Project Manager for internal review, including insurance, bonding, and contractual requirements. HDR will participate in meetings and coordinate revisions as needed to support final document acceptance.
- **Project Advertisement and Distribution:** HDR will submit one reproducible set of final bid documents to the City. The City's Procurement Office will manage advertising, reproduction, sale, and distribution.
- **Pre-Bid Conference Support:** HDR will participate in the pre bid conference conducted by the City, providing a general overview of contract documents. All bidder questions will be submitted in writing through the City's Procurement Office.
- **Addenda Preparation:** HDR will prepare written responses to bidder inquiries and develop addenda packages for City review and approval. Approved addenda will be distributed by the City to plan holders of record.
- **Bid Opening and Award Recommendation:** HDR will attend the bid opening, review bid tabulations, and evaluate bid completeness, responsiveness, and pricing. Within five calendar days, HDR will prepare a formal recommendation for contract award. Non technical compliance will be evaluated by the City. HDR will attend the Commission or Council meeting to support award actions and respond to questions.
- **As-Bid Documents:** Following award and prior to the preconstruction conference, HDR will prepare "As Bid" documents incorporating contractor bid submittals, addenda, and front end revisions. Ten copies will be provided to the City's Project Manager.

2.7 Construction Administration

HDR will provide construction administration services to support successful implementation of the SWPS #16 project. With over a century of experience and a national team of construction specialists, HDR brings the expertise needed to support the City throughout the construction phase.

Preconstruction Support

Preconstruction services may include:

- Constructability reviews and coordination
- Assistance with contractor selection, negotiations, and award (as requested).
- Support with permit submittals and agency coordination.
- Review of contractor's construction schedule and schedule of values.
- Participation in the preconstruction conference to establish roles, procedures, and communication protocols.

Construction Phase Services

During construction, HDR will:

- Participate in weekly construction meetings
- Review and process shop drawings, submittals, RFIs, clarifications, and design revisions
- Perform field observations to become generally familiar with progress and workmanship and determine if work generally conforms to the contract documents
- Advise the City on construction issues and recommend responses to field conditions
- Review change requests and change orders, including evaluation of contractor pricing
- Review and recommend approval of contractor payment applications

HDR's construction administrator will coordinate discipline support, communicate directly with the contractor and City staff, and facilitate timely issue resolution. Design team members will remain available during construction to support technical coordination.

Construction documentation will be managed using HDR's established processes, including tracking submittals, RFIs, change orders, action items, and punch list items, with status reporting available to support City decision making.

Project Closeout

At project completion, HDR will:

- Participate in final walk-throughs and punch list development.
- Determine substantial and final completion.
- Review closeout documentation and certifications.
- Support contract closeout and final payment processing.

HDR will provide a certificate of final completion to support project closeout.

3. Project Management Approach

3.1 Project Staffing

HDR has provided comprehensive engineering services throughout South Florida for decades, with extensive experience delivering stormwater pump stations, drainage systems, and coastal resilience projects. The experience, education, and qualifications of staff assigned to this contract are summarized in the Staffing Plan included with this proposal.

HDR will manage and execute work for SWPS #16 using local leadership supported by company-wide technical resources, drawing from more than 14,000 employee owners across the firm as needed to address schedule, regulatory, and technical demands. Project assignments will be shared internally to maintain continuity of effort while retaining the flexibility to respond quickly to City needs with qualified personnel.

Current and Projected Workload

The project team has been structured with multiple levels of technical expertise to support design, permitting, bidding assistance, and construction administration. Strong leadership and depth of staff resources allow HDR to perform parallel tasks, adapt to evolving project demands, and maintain schedule control. Our management approach is based on proven standards successfully applied on similar stormwater pump station and resiliency projects throughout South Florida.

HDR is committed to maintaining consistent project management and key personnel for the duration of the assignment. As an employee-owned firm, HDR's staff take personal ownership of project outcomes and accountability for delivering results.

Proposed Staff Availability

Team members were selected based on their technical qualifications, relevant project experience, and availability to support the City throughout all phases of the SWPS #16 project. HDR uses internal business intelligence tools to track active project commitments and forecast staff availability.

Based on current workload data, the key personnel identified in the project organization chart have the capacity, experience, and management support required to serve the City through design, permitting coordination, bidding support, and construction administration. HDR's ability to staff projects efficiently, communicate clearly, and maintain strong project controls has consistently supported long-term partnerships with municipalities throughout Florida.

Project Scheduling and Schedule Control

Upon issuance of the Notice to Proceed (NTP), the HDR team will develop a comprehensive, well-structured project schedule that outlines all key milestones, task sequencing, and realistic activity durations. The schedule will clearly define logical relationships among tasks, establish critical dependencies, and provide the foundation for effective progress monitoring and schedule control throughout the project lifecycle.

HDR's scheduling methodology incorporates continuous tracking of design activities, routine evaluation of critical path elements, and ongoing assessment of schedule risks. Meeting project deadlines requires anticipating challenges before they arise; therefore, HDR implements proactive risk-management practices to identify potential constraints early and develop appropriate mitigation strategies.

HDR has prepared an initial baseline schedule that is applicable to the advertised projects. This preliminary framework assumes an NTP date of July 7, 2026, and a Signed and Sealed Final Deliverable date of October 19, 2027. Based on current regulatory timelines, the USACE permit may be the only permit potentially still under review after October 19, 2027. Due to reduced staffing levels and increased workload within the agency, USACE review durations have extended significantly, and approval timeframes currently range from approximately 8 to 12 months.



Proposed Project Schedule

	DURATION (DAYS)	START	FINISH	2026		2027			
				Q3	Q4	Q1	Q2	Q3	Q4
CITY OF HOLLYWOOD PUMP STATION	363	7/7/26	11/25/27						
TASK 1 - PUMP STATION BASIS OF DESIGN	121	7/7/26	12/22/26						
Issue Design NTP	1	7/7/26	7/7/26						
Project Kick-Off Meeting	1	7/8/26	7/8/26						
Supplemental Surveying Services/ROW Investigation	1	7/16/26	7/16/26						
Development of Subservice Utility Engineering (SUE Scans)	22	7/17/26	8/17/26						
Geotechnical Services	22	7/17/26	8/17/26						
Environmental Assessment	22	7/17/26	8/17/26						
Hydrologic/Hydraulic and Water Quality Modeling	22	7/17/26	8/17/26						
BODR for three Stormwater Pump Station Siting Alternatives	66	8/18/26	11/17/26						
City Review and Approval - Pump Station Basis of Design TM	15	11/18/26	12/8/26						
Conduct Public Kick-Off Meeting	10	12/9/26	12/22/26						
TASK 2 - 60% DESIGN SUBMISSION	86	12/23/26	4/21/27						
60% Plan Production	66	12/23/26	3/24/27						
Technical Specifications	44	12/23/26	2/22/27						
OPCC	15	12/23/26	1/12/27						
QA/QC	10	3/25/27	4/7/27						
City Review - 60% Design Submission	10	4/8/27	4/21/27						
TASK 3 - 90% DESIGN SUBMISSION	86	4/22/27	8/19/27						
90% Plan Production	66	4/22/27	7/22/27						
Technical Specifications	44	4/22/27	6/22/27						
OPCC	10	4/22/27	5/5/27						
QA/QC	10	7/23/27	8/5/27						
City Review - 90% Design Submission	10	8/6/27	8/19/27						
TASK 4 - 100% DESIGN SUBMISSION	42	8/20/27	10/18/27						
100% Plan Production	22	8/20/27	9/20/27						
Technical Specifications	22	8/20/27	9/20/27						
OPCC	22	8/20/27	9/20/27						
QA/QC	10	9/21/27	10/4/27						
City Review - 100% Design Submission	10	10/5/27	10/18/27						
TASK 5 - PERMITTING	166	4/8/27	11/25/27						
ERP	70	4/22/27	7/28/27						
Surface Water Management License	70	4/22/27	7/28/27						
Section 408 Permission	120	4/22/27	10/6/27						
Section 10/404 (if applicable)	120	4/22/27	10/6/27						
City Building/Electrical Permits	70	4/22/27	7/28/27						
Zoning/Land Development Review (if applicable)	70	8/20/27	11/25/27						
ROW Use/Construction Permit	70	4/8/27	7/14/27						
Utility Coordination/SUE Approval	44	8/20/27	10/20/27						
FDOT Drainage Connection Permit	70	8/20/27	11/25/27						
FDOT Utility/ROW Permit (if required)	70	8/20/27	11/25/27						
CGP	44	8/20/27	10/20/27						
DESIGN & PERMIT COMPLETION			11/25/27						

3.3 Budget Control

HDR's approach to budget and schedule control for SWPS #16 begins with detailed upfront planning by the Project Manager. A work breakdown structure (WBS) and labor hour projection will be developed to identify staffing assignments and resource needs. These inputs will be used to create a resource-loaded project schedule that supports proactive workload management.

HDR will provide the City with **monthly Project Status Reports** summarizing schedule updates (as applicable), budget performance, earned value trends, and upcoming work activities. Project schedules and staffing will be reviewed during regular coordination meetings to maintain visibility into progress and resource deployment. Project financial tracking will be supported by HDR's Oracle based **E-Business Suite (EBS)** system, which provides real time insight into labor usage, remaining budget, earned value, staff availability, costs, and project status. All Project Managers apply earned value management techniques to identify potential budget or schedule variances early and support timely corrective actions. HDR will also develop a project specific **Project Management Plan (PMP)** defining scope elements, milestone dates, staffing assignments, communication protocols, task budgets, and safety planning.

Throughout project scoping, preliminary design, and final design, HDR will prepare and update construction cost estimates based on historical data and market trends to support the City's budgeting and funding planning. Cost-effective solutions will be evaluated holistically across design, constructability, operations, and long-term maintenance considerations.

3.4 Document Control

HDR's document control process will support the full document lifecycle from creation through closeout and archiving. Documents will be organized using standardized templates, file naming conventions, and required metadata, allowing for consistent classification and retrieval. Controlled workflows will include version management, check in/check out procedures, review and approval tracking, and documented distribution records. Access permissions will protect sensitive information, and printed copies will be designated as uncontrolled.

HDR's Document Management Team will provide ongoing administration, including upload verification, status tracking, RFI and submittal control during construction, and periodic internal audits. At project closeout, records will be reviewed for completeness and archived in accordance with City retention requirements.

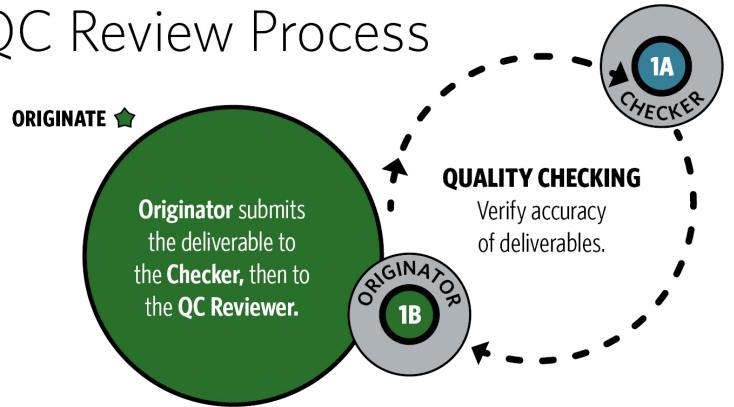


3.5 Quality Assurance and Quality Control

HDR is committed to delivering high-quality, buildable designs aligned with City standards and regulatory requirements. Within the first week following NTP, HDR will develop and distribute a **project-specific Quality Management System (QMS)** to all team members and subconsultants.

The QMS will define quality control procedures, documentation standards, and review responsibilities for each project phase. It will establish structured technical reviews at key milestones, interdisciplinary coordination checkpoints, and management oversight to support consistency and accountability from concept development through construction. A QMS process flow diagram is included below.

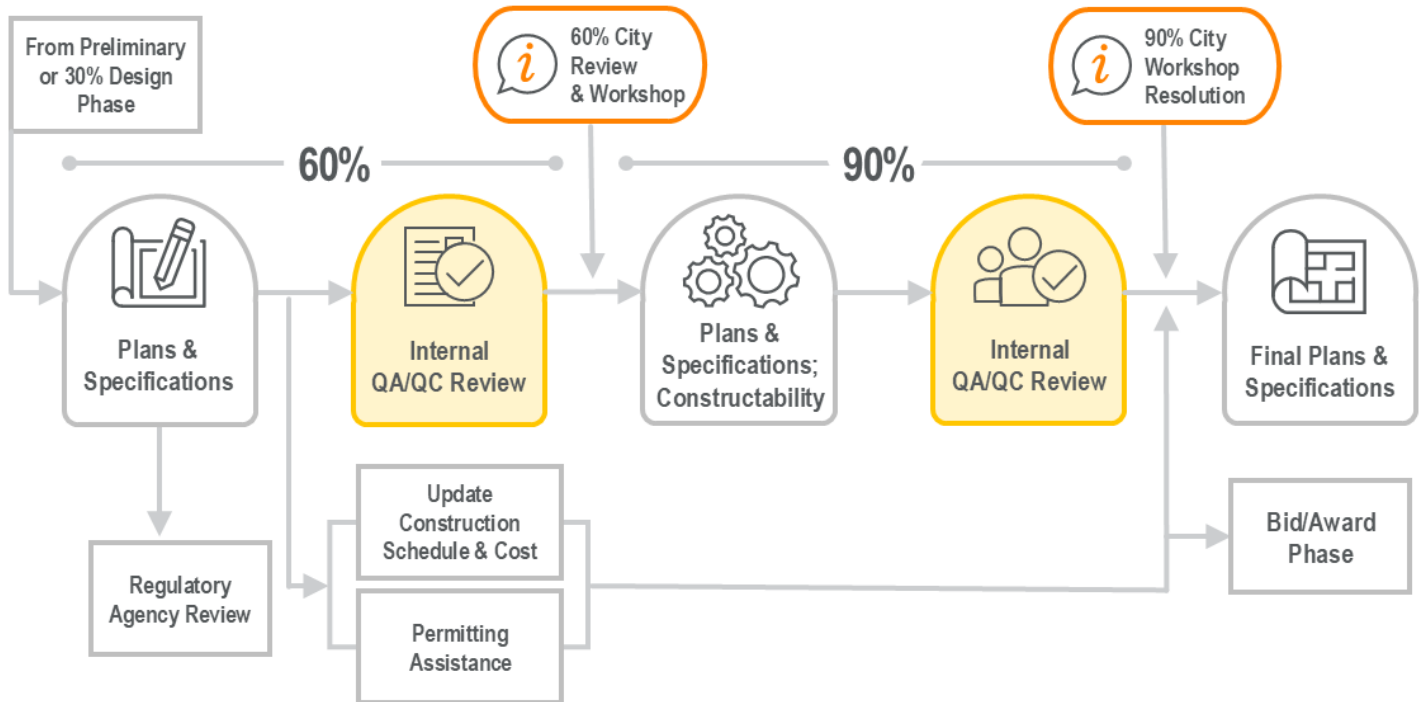
QC Review Process



HDR’s QMS will cover all project deliverables, including plans, specifications, calculations, cost estimates, and permitting documents. The QMS will incorporate structured QC checklists, senior-level peer reviews, and constructability reviews at key submittal milestones to identify issues early and reduce design-related risk.

Constructability reviews will be led by **David Romano, PE**, HDR’s in-house CEI Specialist, with early coordination between design and construction teams supporting practical, cost-effective solutions. This hands-on construction perspective will help resolve constructability challenges efficiently and minimize downstream impacts during construction.

Proven Quality Control Process that Delivers a High-Quality Project



Proposed Staff Availability

Our personnel are dedicated to providing sufficient time and effort to produce quality services. With this in mind, our team members were carefully selected for their expertise and availability to work on this project. **HDR uses Business Intelligence software to monitor project commitments and project future staff workloads.** Based on current data, the key personnel shown in our organization chart have the technical and management skills and the appropriate availability to serve the City for the duration of this contract.

Key Role	Proposed Staff	Avail.
Project Manager	Alex Vazquez, PE, CFM	85%
Principal-in-Charge	Cristina Ortega, PE, ENV SP	60%
Lead Roadway Engineer	Juliana Ortiz, PE	80%
Lead Stormwater Engineer	Giancarlo Peña, PE	90%
Lead Mechanical/Pump Station	Samantha La Hée, PE	75%
CEIS	David Romano, PE	80%
Permitting	Ken Huntington	85%
H&H Modeling	Alex Miller, PE, CFM, ENV SP	80%

Current and Projected Workload

HDR’s deep bench of local and national subject matter expertise and task management systems allow us to respond quickly and efficiently to varying workloads. We organized our team with multiple levels of skills and resources to deliver this assignment. The capacity to meet deadlines requires strong leadership and staff with the technical skills to perform the work. Using workload forecasting and business intelligence tools, we monitor commitments and staff peaks so the team stays aligned with the Basis of Design, progressive design submittals, and permitting windows. **Key staff maintain strong availability, and we can add supplemental discipline staff and specialty advisors during high-intensity review and coordination periods.**

Our management approach is based on proven standards and provides consistent management and key personnel throughout the project. Our ability to efficiently staff projects, share information, communicate openly, and maintain project controls has been a benchmark of our success in building long-term relationships with municipalities across the state.





Tab F

KNOWLEDGE OF
THE SITE AND
LOCAL CONDITIONS

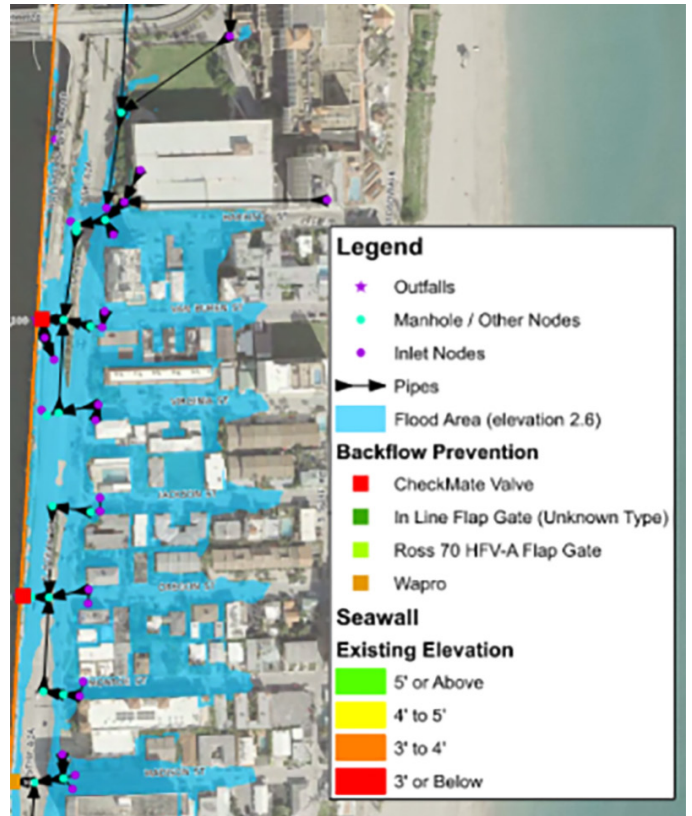
KNOWLEDGE OF THE SITE AND LOCAL CONDITIONS

HDR has a comprehensive understanding of the SWPS #16 project site and its constraints, supported by direct involvement with the City of Hollywood on this project and adjacent stormwater improvements. HDR was previously selected by the City under its Continuing Consulting Engineering Services – Infrastructure Projects contract to provide design and bid and award services for SWPS #16; however, due to the anticipated construction cost exceeding CCNA continuing contract thresholds, the City appropriately initiated this separate solicitation.

HDR’s proposed Project Manager, **Alex Vazquez**, served as Project Manager for the design of the **FDOT Van Buren System Stormwater Pump Station** and led design scoping for the **CRA/City Azalea System Stormwater Pump Station**, both immediately adjacent to SWPS #16 and currently under construction. This direct experience provides continuity and institutional knowledge that informs site specific decisions, coordination, and risk management.

Key site conditions that shape project delivery include:

- **Dense Utilities:** Highly urbanized corridor with complex, layered utilities and concurrent undergrounding of overhead electrical systems, requiring detailed SUE coordination.
- **Seawall Tiebacks:** Prior projects revealed inaccuracies in available as builts; ground penetrating radar will be applied where structures are sited near the seawall.
- **Interconnected City and FDOT Drainage:** Shared outfalls along SR A1A require integrated hydraulic analysis and FDOT Chapter 14 86 coordination.
- **Documented Pipe Infiltration:** Groundwater infiltration observed in existing storm pipes will be addressed through in situ lining of retained infrastructure.
- **USACE Section 408:** Proximity to the Intracoastal Waterway requires early coordination due to long federal review timelines.
- **Limited Right of Way:** Above ground electrical, control, and generator components must be carefully sited to balance footprint, access, and community impacts.



Know Flooding Conditions within the Project Limits.

Knowledge of State, County, and City Codes and Requirements

The HDR Team brings extensive, working knowledge of **Florida state statutes**, **Broward County ordinances**, and **City of Hollywood codes** governing stormwater pump stations, tidal outfalls, floodplain construction, and right of way improvements. This knowledge allows permitting and design efforts to progress in parallel while supporting schedule reliability.



Alex Vazquez, Proposed Project Manager, Performing Field Site Investigation of the Project Limits.

State of Florida Permitting Matrix

HDR will design and permit this project in accordance with all applicable State of Florida statutes and administrative rules, including Environmental Resource Permitting under Chapter 62-330, F.A.C., construction stormwater NPDES requirements, Florida Building Code flood-resistant design provisions, FDOT drainage connection regulations, and associated water-quality and operational requirements. HDR will coordinate early with FDEP, SFWMD, and FDOT to streamline reviews and avoid schedule impacts. Below is a matrix summarizing the applicable permits and requirements, governing agency, statute/rule, key compliance considerations, and design and permitting implications.

Category	Permit / Requirement	Governing Agency	Statute / Rule	Key Compliance Considerations	Design & Permitting Implications
Environmental Resource Permitting (ERP)	Environmental Resource Permit	Florida Department of Environmental Protection / South Florida Water Management District	Chapter 62-330, F.A.C.; Ch. 373, F.S.	Flood protection, stormwater quantity and quality, groundwater interaction, and redevelopment criteria	ERP design criteria drive pump sizing, storage volumes, and outfall hydraulics
Stormwater Water-Quality Standards	Nutrient and pollutant reduction compliance	FDEP / SFWMD	Ch. 62-302 & 62-330, F.A.C.	Applicable TN/TP reduction requirements for new or redeveloped systems	Treatment BMPs and modeling (e.g., BMPTrains) incorporated into design
Construction Stormwater (NPDES)	NPDES Construction Generic Permit (CGP)	FDEP	Clean Water Act; Ch. 62-621, F.A.C.	Required for ≥1 acre disturbance; SWPPP and inspections	Contractor obtains CGP; SWPPP requirements reflected in plans/specs
Floodplain Management	Flood-resistant construction compliance	FDEP / Local enforcement	Florida Building Code (FBC); Ch. 553, F.S.	Electrical and mechanical equipment elevated above BFE (+1' freeboard)	Electrical panels, generators, and controls elevated or floodproofed
Electrical & Structural Codes	Building and electrical permits	State of Florida (adopted locally)	Florida Building Code; NFPA 70 (NEC)	Structural integrity, electrical safety, flood-resistant design	Drives layout, elevations, and enclosure requirements
FDOT Drainage Connections	Drainage Connection Permit	Florida Department of Transportation	Rule Chapter 14-86, F.A.C.	Hydraulic impacts to the FDOT system; shared outfalls	Early coordination with FDOT may enable cost participation
FDOT Right-of-Way Work	Utility / ROW Permit (if applicable)	FDOT	FDOT Utility Accommodation Manual	Work within FDOT ROW	Influences alignment and construction sequencing
Water Quality Certification	Section 401 Water Quality Certification (if federal permit required)	FDEP	Clean Water Act; Ch. 62-4, F.A.C.	Consistency with state water-quality standards	Often processed concurrently with federal permits
Coastal / Navigable Waters	Coastal construction consistency	FDEP	Coastal Zone Management Act (CZMA)	Outfalls near tidal waters	Integrated with ERP and federal review
Dewatering Discharges	Dewatering authorization	FDEP	Ch. 62-621, F.A.C.	Turbidity and discharge quality	Temporary dewatering controls are included in the plans
Hazardous Materials / Fuel Storage	Generator fuel storage compliance	FDEP	Ch. 62-762, F.A.C.	Secondary containment; spill prevention	Generator and tank design requirements
Operation & Maintenance	Long-term system responsibility	FDEP / SWMD	ERP Permit Conditions	Inspection, maintenance, and reporting	O&M manuals and certifications required



Broward County Permitting Matrix

HDR will design and permit this project in accordance with all applicable Broward County ordinances and permits, including obtaining a Surface Water Management License under Chapter 27, Article V; meeting surface water quality standards and drainage criteria; completing required sealed engineering submittals; and compatibility with the County’s comprehensive plan and land use regulations. All county licenses will be obtained prior to construction and include commitments to monitoring, reporting, and ongoing compliance as required by ordinance. Below is a matrix summarizing the applicable permits and requirements, agency/division, code/ordinance, key compliance considerations, and design and permitting implications.

Category	Requirement / Permit	Agency / Division	Code / Ordinance Reference	Key Compliance Considerations	Design & Permitting Implications
Surface Water Management License	Surface Water Management License (Construction / Operation)	Broward County Environmental Protection & Growth Management Department (EPGMD) – Surface Water Management	Broward County Code of Ordinances, Chapter 27, Article V – Water Resource Management	A license is required before any excavation, creation, construction, alteration, or abandonment of surface water management works.	License application with engineering plans, modeling, and drainage analysis sealed by a professional engineer.
Application Submission Standards	Engineering plans, reports, seal & fee	EPGMD	Broward County Code, § 27-199 – Application requirements	Plans and reports must be signed and sealed by a Florida-registered PE; survey, ownership, and fee must accompany the application.	Ensure complete submittal package; include boundary survey and proof of ownership consistency.
Water Quality Standards	County water quality criteria	EPGMD	Broward County Code, § 27-195 – Water quality standards	The county sets marine, fresh, and groundwater quality standards; the most stringent standards apply.	Evaluate discharge quality and design BMPs to meet or exceed applicable standards.
Compatibility with Comp Plans & Zoning	Compatibility of surface water projects with local plans	EPGMD	Broward County Code, § 27-200 – Criteria for license issuance	Projects must conform to comprehensive plans, land use compatibility, and not degrade receiving waters.	Incorporate comprehensive plan / future land use considerations into drainage design.
Surface Water Monitoring & Reporting	County water quality monitoring conditions	EPGMD	Broward County Code, Article V – License conditions	County licenses may include monitoring and reporting of water quality and system performance.	Budget and plan for ongoing monitoring requirements if imposed in the license conditions.



City of Hollywood Permitting Matrix

HDR will design and permit this project, including the stormwater pump station, in full compliance with applicable City of Hollywood ordinances, including stormwater management, floodplain protection, right-of-way use, utility coordination, electrical and building codes, and construction standards. HDR will coordinate closely with City Engineering, Building, Planning, and Public Works staff for timely approvals and seamless integration with existing City infrastructure. Below is a matrix of the applicable required approvals, City departments, code/ordinance reference, key compliance considerations, and design/permitting implications.

Category	Requirement / Approval	City Department	Code / Ordinance Reference	Key Compliance Considerations	Design / Permitting Implications
Stormwater Management	Approval of stormwater system modifications	Public Works / Engineering	City Code Chapter 54 – Stormwater Utility	System capacity, flood protection, and illicit discharge prevention	Pump sizing, conveyance improvements, and outfall design must comply with City standards
Floodplain Management	Floodplain compliance review	Building Division / Engineering	City Code Chapter 154; Florida Building Code	Minimum BFE + 1 ft freeboard for electrical/mechanical equipment	Electrical panels, generators, and controls are elevated 1' above BFE
Environmental Protection	Protection of receiving waters	Public Works / Engineering	City Code Chapter 54	Prohibition of illicit discharges; construction BMPs	SWPPP, erosion control, and permanent system protections
Right-of-Way (R/W)	R/W Construction Permit	Engineering / R/W Division	City Code Chapter 55	Permits required for all work within City R/W	ROW plans, restoration details, and bonding
Maintenance of Traffic (MOT)	MOT Plan approval	Engineering / Police	City Engineering Standards	Pedestrian and vehicular safety	MOT plans integrated into construction documents
Utility Coordination	Utility conflict resolution	Engineering	City Code Ch. 55	Dense utilities; undergrounding coordination	SUE, utility meetings, coordination with City programs
Subsurface Utility Engineering (SUE)	SUE study (if required)	Engineering	City Code Ch. 55	Accurate utility location prior to construction	Reduces conflicts and change orders
Electrical & Generator Facilities	Electrical and building permits	Building Division	Florida Building Code; City Code	Structural, electrical, flood elevation, and noise	Generator siting, sound attenuation, elevation compliance
Noise Control	Generator noise compliance	Building / Code Compliance	City Code Chapter 98 (Noise)	Limits on operational noise	Generator enclosure and muffler design
Zoning / Land Use	Zoning compliance (if applicable)	Planning Department	City Land Development Regulations	Setbacks, visibility, aesthetics	Screening, architectural treatment as needed
Street & Sidewalk Impacts	Street/sidewalk cutting permits	Engineering	City Code Chapter 104	Controlled cutting and restoration	Pavement and sidewalk restoration details
Driveways & Curb Cuts	Driveway/curb permits	Engineering	City Code (Driveways & Sidewalks)	Access continuity and ADA compliance	Maintain pedestrian access during construction
Tree Protection	Tree removal / protection permit	Planning / Engineering	City Tree Preservation Ordinance	Protection or mitigation for impacted trees	Tree surveys and protection plans
Construction Phase	Inspections and compliance	Engineering / Building	City Code Chapters 54 & 55	City inspections; enforcement authority	Construction coordination and compliance tracking
As-Built Submittals	Record drawings	Engineering	City Engineering Requirements	Accurate GIS and asset records	Certified as-builts at project closeout
Operation & Maintenance	O&M responsibility	Public Works	City Utility Requirements	Long-term system functionality	O&M manuals and training



FEMA Flood Insurance Rate Map (FIRM) Outlining Flood Zone within the Project Limits.

Protection of Critical Infrastructure

Given flood exposure and limited right of way, HDR's designs incorporate:

Elevated Electrical and Controls: Electrical panels, control cabinets, and generators located at least one foot above the applicable Base Flood Elevation (7.0 feet NAVD88 for the project area).

Flood Tolerant and Redundant Components: Use of corrosion resistant materials, submersible equipment where feasible, and redundancy for critical systems.

Footprint Optimization: Alternative layouts that balance access, maintenance needs, and streetscape compatibility.

Experience in Low Elevation, Coastal, and Hurricane Prone Environments

The SWPS #16 project is located within a low-lying coastal corridor influenced by shallow groundwater, tidal tailwater, and hurricane wind and surge conditions. Team has successfully planned, designed, and permitted stormwater pump stations under similar conditions across South Florida, including projects in Hollywood, Fort Lauderdale, Miami Beach, Monroe County, and Key West.

HDR's technical approach addresses:

- **Low Point Mapping and Flow Paths:** Evaluation of surveyed elevations, gutter flow, and inlet capture to prevent unintended roadway ponding.
- **Tidal and Groundwater Effects:** Pump sizing, wet well elevations, and outfall hydraulics consider concurrent rainfall, tides, and seasonal high groundwater based on Broward County's 2060 sea level rise planning horizon.
- **Future Conditions:** Analyses incorporate projected rainfall and sea level changes to support long-term resilience.
- **Integrated System Operations:** Designs reflect the interconnected nature of City and FDOT drainage systems without transferring flood risk upstream or downstream.

Hurricane Wind and Storm Surge Considerations

All above ground structures, enclosures, and appurtenances will be designed consistent with Florida Building Code wind criteria for coastal environments. Backup power systems will be anchored and protected, and outfalls and trash racks will be designed to accommodate debris loading and surge-related hydraulics.

Construction Sequencing and Operational Readiness

HDR incorporates construction phase risk considerations into design by:

- Phasing work to address hurricane season exposure
- Maintaining drainage functionality along SR A1A during construction
- Coordinating with City and FDOT operations and emergency response staff
- Prioritizing post storm access and rapid system restart

Knowledge of Permitting Agencies and Testing Protocols

HDR has direct experience coordinating with **SFWMD, USACE, Broward County EPD, FDOT District IV, FDEP, and City of Hollywood** departments for stormwater pump station and outfall projects. Environmental Permitting Lead **Ken Hungington** previously served as a regulator with SFWMD and FDEP, providing valuable insight into agency review processes.

HDR incorporates applicable City of Hollywood and FDOT testing and inspection protocols into construction documents, including earthwork, subgrade, lime rock base, asphalt, concrete, and notification requirements. Construction testing, inspections, and Engineer of Record observations are clearly defined to support quality control and acceptance. All construction and materials shall conform to the applicable standards and specifications of the City of Hollywood Department of Development Services – Engineering, Transportation & Mobility Division, as well as all relevant local, state, and national



HDR's proximity to the project site enhances real-time coordination with agencies and stakeholders, supporting efficient permitting, safety planning, and constructible design solutions.

codes, where applicable.

Experience with Complex Logistical and Safety Challenges

The Team has extensive experience delivering projects with complex logistical challenges, including construction within occupied and operating facilities, maintaining public safety, and addressing heightened safety considerations in dense urban environments.

Recent examples include the City of Fort Lauderdale Progresso Village and Dorsey River Bend Stormwater Pump Station projects, both of which are nearing substantial completion, and the Melrose Manors Stormwater Improvement Project, currently in 90 percent design. Each project required careful planning due to limited space, proximity to residents and businesses, and construction around active systems.

HDR addressed these challenges through early planning, coordinated design, and proactive stakeholder engagement. Logistical constraints and safety risks were identified early by evaluating site access, operational requirements, and public interfaces, allowing them to be incorporated into construction sequencing and risk management strategies.

For occupied facilities, HDR developed phased construction plans, temporary systems, and bypass strategies to maintain continuous operations, with planned shutdowns coordinated in advance during low-risk periods. Public safety was prioritized through integrated traffic control, pedestrian protection, secure work zones, and maintained emergency access.

Safety considerations were embedded into design details and construction sequencing, particularly when working near live utilities, energized systems, or within confined spaces. HDR also planned around limited staging areas and constrained access by coordinating material deliveries, equipment placement, and work sequencing.

Ongoing coordination with City staff, facility operators, and emergency services, combined with adaptive management during construction, allowed HDR to respond effectively to unforeseen conditions while maintaining safety, schedule, and operational objectives.



Tab G

REFERENCES – VENDOR
REFERENCE FORM



FORM 4

VENDOR REFERENCE FORM

City of Hollywood Solicitation #: RFQ-365-26-JJ
 Reference for: HDR Engineering, Inc.

Organization/Firm Name providing reference: City of Fort Lauderdale

Organization/Firm Contact Name: Sayd Hussain Title: Senior Project Manager

Email: SHussain@fortlauderdale.gov Phone: (954) 828-5772

Name of Referenced Project: Neighborhood Stormwater Improvements and Pump Station Design & Construction (Melrose Manors) Contract No: _____

Date Services were provided: 04/2023 - 01/2026 Project Amount: \$1,688,598.80

Referenced Vendor's role in Project: Prime Vendor Subcontractor/ Subconsultant

Would you use the Vendor again? Yes No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
 Designing a stormwater management system for the 640-acre Melrose Manors neighborhood. The solution integrates green infrastructure, surface drainage improvements, subsurface piping, exfiltration trenches, and water quality features. Two high-capacity pump stations, each rated at 15,850 GPM, will provide reliable conveyance. HDR's scope includes data collection, design, permitting, bidding, and construction-phase services.

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Staff turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Timeliness/Cost Control of:				
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments (provide additional sheet if necessary):

****THIS SECTION FOR CITY USE ONLY****						
Verified via:	Email:	<input type="checkbox"/>	Verbal:	<input type="checkbox"/>	Mail:	<input type="checkbox"/>
Verified by:	Name:				Title:	
	Department:				Date:	



FORM 4

VENDOR REFERENCE FORM

City of Hollywood Solicitation #: RFQ-365-26-JJ

Reference for: HDR Engineering, Inc.

Organization/Firm Name providing reference: City of Fort Lauderdale

Organization/Firm Contact Name: Sayd Hussain Title: Senior Project Manager

Email: SHussain@fortlauderdale.gov Phone: (954) 828-5772

Name of Referenced Project: Neighborhood Stormwater Improvements and Pump Station Design & Construction (Dorsey-Riverbend) Contract No: _____

Date Services were provided: 04/2022 - 12/2024 Project Amount: \$786,052

Referenced Vendor's role in Project: Prime Vendor Subcontractor/ Subconsultant

Would you use the Vendor again? Yes No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):

HDR designed a comprehensive stormwater system to reduce flooding in the 200-acre Dorsey–Riverbend neighborhood. Improvements include gravity pipelines, exfiltration trenches, water quality structures, a 10,800 GPM pump station, and a 72-inch outfall to the North Fork New River. The pump station was architecturally styled for neighborhood compatibility and elevated for flood protection. HDR provided data collection, final design, permitting, and construction-phase services.

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Staff turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Timeliness/Cost Control of:				
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments (provide additional sheet if necessary):

****THIS SECTION FOR CITY USE ONLY****						
Verified via:	Email:	<input type="checkbox"/>	Verbal:	<input type="checkbox"/>	Mail:	<input type="checkbox"/>
Verified by:	Name:				Title:	
	Department:				Date:	



FORM 4

VENDOR REFERENCE FORM

City of Hollywood Solicitation #: RFQ-365-26-JJ
 Reference for: HDR Engineering, Inc.

Organization/Firm Name providing reference: City of Fort Lauderdale

Organization/Firm Contact Name: Sayd Hussain Title: Senior Project Manager

Email: SHussain@fortlauderdale.gov Phone: (954) 828-5772

Name of Referenced Project: Neighborhood Stormwater Improvements and Pump Station Design & Construction (Progresso Village) Contract No: _____

Date Services were provided: 04/2023 - 12/2024 Project Amount: \$1,100,000

Referenced Vendor's role in Project: Prime Vendor Subcontractor/ Subconsultant

Would you use the Vendor again? Yes No. Please specify in additional comments

Description of services provided by Vendor (provide additional sheet if necessary):
 HDR is leading stormwater improvements for the 300-acre Progresso Village neighborhood, a highly urbanized, flood-prone area. The project includes 21,000 LF of new stormwater pipe, 100 drainage structures, a 16,200 GPM pump station, force main, exfiltration trenches, and water quality features. Additional work includes roadway, utility, and streetscape improvements. HDR provided data collection, final design, permitting, and bid-phase services.

Please rate your experience with the Vendor	Need Improvement	Satisfactory	Excellent	Not Applicable
Vendor's Quality of Service				
a. Responsive	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Vendor's Organization:				
a. Staff expertise	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Professionalism	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Staff turnover	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Timeliness/Cost Control of:				
a. Project	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Deliverables	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Additional Comments (provide additional sheet if necessary):

****THIS SECTION FOR CITY USE ONLY****						
Verified via:	Email:	<input type="checkbox"/>	Verbal:	<input type="checkbox"/>	Mail:	<input type="checkbox"/>
Verified by:	Name:				Title:	
	Department:				Date:	



Tab H

SUB CONSULTANT
INFORMATION

TAB H

Sub Consultant Information

HDR's project team for the City of Hollywood's Stormwater Pump Station #16 includes three key subconsultants that complement HDR's internal civil, structural, mechanical, electrical, and instrumentation capabilities. Our approach is to minimize the number of subconsultants and perform the majority of the work in-house, while engaging specialized partners where their expertise directly supports project delivery. Subconsultants are selected early so they can contribute to scope definition, schedule coordination, and cost controls, and so deliverables align with the City's design, permitting, and bid schedule.

HDR manages subconsultants as an integrated part of overall project management, with clear roles, review cycles, and coordination protocols established at the outset. For Pump Station #16, KEITH supports Survey and SUE, HR Engineering Services, Inc. (HRES) supports geotechnical services, and HML Public Outreach supports stakeholder coordination and community engagement.



Continuous Coordination with Sub-consultants is Key to Successful Project Delivery.

HML Public Outreach LLC | Public Outreach



Since 2010, HML Public Outreach LLC has delivered strategic public communications services for more than 250 infrastructure and resiliency projects across South Florida. The firm specializes in community engagement for complex stormwater, transportation, and utility improvement programs, with a strong focus on stakeholder coordination, public meetings, board presentations, and issue resolution. HML is currently leading outreach for the City of Hollywood CRA's Phase IV: Undergrounding of Overhead Utilities and Streetscape Beautification Project, working directly with CRA staff, residents, and property owners throughout the corridor.

This effort includes organizing community meetings, conducting targeted outreach, coordinating with hundreds of property owners, responding to stakeholder concerns, and facilitating execution of license agreements. Through this ongoing work, HML has built strong relationships with the Hollywood community and is recognized as a trusted presence among residents and CRA leadership.

HML's experience on similar coastal resiliency and stormwater projects includes the City of Miami Beach's West Avenue Neighborhood Improvement Phases I, II, and III, and Indian Creek Drive Flooding Mitigation projects, both of which required intensive public involvement, coordination with elected officials, and close collaboration with engineering teams to support construction in dense residential areas.

HML is led by Principal Heather M. Leslie, who brings more than 20 years of experience in public outreach and stakeholder engagement for municipal infrastructure projects. Melissa J. Rodriguez currently serves as the Senior Community Outreach Specialist for the Hollywood CRA Phase IV project and acts as the primary point of contact for residents and property owners, ensuring consistent communication, responsiveness, and community trust. With established relationships in Hollywood and a proven history on comparable stormwater and resiliency projects, HML is well positioned to support the SR A1A Stormwater Pump Station design effort.



HR Engineering Services, Inc. | Geotechnical

HR Engineering Services, Inc. (HRES) is a certified Disadvantaged Business Enterprise (DBE) specializing in geotechnical engineering and construction inspection. The company commenced operations in Miami in July 1998.

HRES is committed to providing quality and professional expertise across a wide range of engineering disciplines. The firm is qualified by the Florida Department of Transportation (FDOT) to perform in Group 9, Subgroups 9.1, 9.2, 9.4.1, and Group 10, Subgroup 10.3, as well as by Miami-Dade County in 9.01, 9.02, and 16.00.

HRES primarily serves the public sector and holds certifications as a Disadvantaged Business Enterprise (DBE), a Small Business Enterprise (SBE/AE), and (SBE-G&S) with the South Florida Water Management District, as well as with the State of Florida Department of Transportation.

HRES offers geotechnical services such as subsurface explorations, foundation evaluations and recommendations, and pavement evaluations and recommendations. The firm operates two truck-mounted drill rigs, one ATV drill rig, and two coring machines for pavement core sampling, with drilling equipment capable of rock coring. HRES's geotechnical expertise encompasses design and planning execution for new geotechnical projects.

KEITH and Associates, INC. | SUE and Survey



For over six decades, KEITH has been a prominent provider of Surveying, Mapping, and Subsurface Utility Engineering (SUE) services in South Florida. Headquartered in Broward County since 1998, the company also maintains offices in Miami-Dade, Palm Beach, St. Lucie, and Orange counties. With a staff of more than 220 professionals, KEITH delivers solutions that contribute to the development and improvement of local communities.

The firm has established long-standing relationships with the City of Hollywood, serving as both a prime and subconsultant on projects such as the Downtown Young Circle Project, Floodplain Management Plan Update, Stormwater Program Management, and the Hollywood Art & Culture Center. KEITH currently holds multiple continuing services contracts with the City, as well as over 50 active contracts throughout Broward County requiring geospatial expertise.

Leveraging decades of survey experience throughout Broward County, KEITH possesses in-depth knowledge of local agencies, utility providers, and community conditions, providing valuable insight into project requirements. Surveying and Mapping have remained core services since the firm's founding, upholding the personal service and technical excellence established by founder Bill Keith, PSM. The company has successfully delivered thousands of survey projects, consistently navigating complex schedules, budgets, and program requirements.

KEITH provides comprehensive Survey and SUE services to support stormwater planning and design, including high-accuracy surface modeling, drainage feature collection, and design-ready elevation data. The firm's SUE work adheres to ASCE 38-22 standards, combining records research, electromagnetic and GPR designating, and test holes to verify utility conditions. These services result in accurate, conflict-free base maps that facilitate efficient, cost-effective stormwater infrastructure design.



Tab I

FINANCIAL RESOURCES

TAB I

Financial Resources

Subject: Request for HDR Audited Financial Statements

Date: February 21, 2025

Hello,

HDR values its business relationships and is committed to providing information to assist in the evaluation of HDR as a future or continued partner. We understand that you want to perform due diligence necessary to assess our financial stability as a business partner.

HDR is a privately held 100% employee-owned company and views our financial statements as confidential information, not for public disclosure. Ernst and Young (EY) has operated as our independent auditor since 2011 and has issued unqualified audit opinions since that time. To avoid disclosure of our complete financial statements, we have engaged EY to prepare a report confirming key financial figures, as calculated from the HDR's 2024 consolidated financial statements, for purposes of providing data to clients (and prospective clients) operating within the United States.

If you have questions regarding the attached report, please contact (Joe Cox, Regulatory Reporting & Compliance Manager/ joe.cox@hdrinc.com / 402.926.7159) or me.

Thank you,



Galen Meysenburg

Chief Financial Officer

Enclosure



Ernst & Young LLP
 155 North Wacker Dr.
 Chicago, IL 60606

Tel: +1 312 879 2000
 ey.com

Report of Independent Auditors

HDR, Inc.
 1917 S. 67th Street
 Omaha, NE 68106

We have audited, in accordance with auditing standards generally accepted in the United States, the consolidated financial statements of HDR, Inc. and Subsidiaries (the Company) prepared by management in conformity with U.S. generally accepted accounting principles as of and for the years ended December 28, 2024 and December 30, 2023 (the Consolidated Financial Statements), and have issued our report, with an unqualified opinion thereon, dated February 21, 2025.

Certain amounts included in these audited Consolidated Financial Statements are as follows (in thousands):

	<u>2024</u>	<u>2023</u>
Revenues	\$3,867,832	\$3,551,028
Revenues less subcontractor costs	2,965,278	2,684,966
Total current assets	2,574,066	2,128,516
Total assets	3,173,975	2,730,816
Total current liabilities	1,084,515	985,560
Total debt	31,602	30,275
Total liabilities	2,236,608	1,968,858
Total stockholders' equity	937,367	761,958
Working capital *	1,489,551	1,142,956
Current ratio ^	2.37	2.16
Debt-to-total stockholders' equity ratio #	0.0337	0.0397

*Working capital represents total current assets less total current liabilities

^ Current ratio represents current assets divided by current liabilities

Debt-to-total stockholders' equity ratio represents total debt divided by total stockholders' equity

This report is intended solely for the information and use of management, the owners of the Company, potential and existing clients and is not intended to be and should not be used by anyone other than these specified parties or for any other purpose other than assessing the credit worthiness of the Company. We have performed no audit of, or any auditing procedures with respect to, any consolidated financial statements of the Company since the date of our report referred to above.

February 21, 2025



Tab J

LEGAL PROCEEDINGS
AND PERFORMANCE

TAB J

Legal Proceedings and Performance



In today's legal environment, claims and litigation are a reality for any large company in the industry, regardless of performance or merit. When claims do occur, we are proactive and cooperative in reaching a resolution that is fair and reasonable to all. We value the confidences of our clients as well as our contractual commitments to confidentiality, and do not discuss with third parties the circumstances involving ongoing projects. We would take the same position with information regarding our work for this contract.

If necessary, we would be willing to meet in person with you to discuss the merits or background of past claims. There are no claims or litigation that could impede our ability to perform this project, and we have maintained professional liability insurance in force continually since 1958 for the protection of us and our clients.



ADDITIONAL INFORMATION



We pride ourselves on our continuous efforts and desires to completely understand our clients needs and preferences and to provide them with professional services which not only meet, but hopefully exceed their expectations. One of the key initial steps in developing this level of understanding is the negotiation and development of a mutually acceptable agreement which properly reflects both parties obligations and expectations.

We have carefully reviewed all of the documents and information you provided as a part of your Request for Qualifications (RFQ). Some of the information you provided was in the form of potential terms and conditions which eventually would be reflected in a final agreement we would be entering into with you should we be successful in our pursuit of your project. Although we have identified several items which we need to obtain more information from you on, we believe that there will be no insurmountable problems in reaching a final agreement. We are basing this assumption on the reasonable expectation that the path of our negotiations will be guided by the basic premises necessary for any professional design firm to maintain the full applicability of its professional liability insurance coverage and to develop any required schedules or pricing. Those guidelines are; no guarantees or warranties (either expressed or implied); the standard of care will not be elevated beyond a normal, reasonable, negligence standard; any indemnifications will be based upon a negligence standard; any fees, pricing or scheduling requirements will be based upon quantifiable requirements.

We sincerely look forward to the opportunity to further refine our understanding of your needs and desires and the ultimate development of a complete and accurate agreement with you and respectfully request that you allow us the opportunity to provide professional design services for your project.



ATTACHMENT A

ATTACHMENT A

Evidence of Authorized Representative

DIVISION OF CORPORATIONS



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Foreign Profit Corporation
HDR ENGINEERING, INC.

Filing Information

Document Number	P06487
FEI/EIN Number	47-0680568
Date Filed	06/20/1985
State	NE
Status	ACTIVE
Last Event	AMENDMENT
Event Date Filed	09/24/2025
Event Effective Date	NONE

Principal Address

1917 S 67th St
Omaha, NE 68106

Changed: 02/07/2025

Mailing Address

1917 S 67th St
Omaha, NE 68106

Changed: 02/07/2025

Registered Agent Name & Address

REGISTERED AGENTS INC
7901 4TH ST N
STE 300
ST. PETERSBURG, FL 33702

Name Changed: 06/10/2024

Address Changed: 06/10/2024

Officer/Director Detail

Name & Address

Title PRESIDENT, Director, COO



<p>GRAFF, NEIL A. 4401 WEST GATE BLVD SUITE 400 AUSTIN, TX 78745</p> <p>Title EXECUTIVE VICE PRESIDENT</p> <p>MCANENY, DOUGLAS J 100 M STREET SUITE 305 WASHINGTON, DC 20003</p> <p>Title EXECUTIVE VICE PRESIDENT</p> <p>MCLAUGHLIN, THOMAS C 711 WESTCHESTER AVE WHITE PLAINS, NY 10604</p> <p>Title EXECUTIVE VICE PRESIDENT</p> <p>MEYSENBURG, GALEN J 1917 S 67TH ST OMAHA, NE 68106</p> <p>Title EXECUTIVE VICE PRESIDENT</p> <p>STEINERT, JOHN P 100 OAKBROOK DRIVE ANN ARBOR, MI 48104</p> <p>Title EXECUTIVE VICE PRESIDENT</p> <p>WIGNALL, DOUGLAS S 1917 S 67TH ST OMAHA, NE 68106</p> <p>Title SENIOR VICE PRESIDENT</p> <p>HICKOX, PATRICK P 25 WEST CEDAR STREET PENSACOLA, FL 32502</p> <p>Title SENIOR VICE PRESIDENT</p> <p>KHOURY, ELI R 1475 CENTREPARK BLVD WEST PALM BEACH, FL 33401</p> <p>Title SENIOR VICE PRESIDENT</p>
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<p>LEWIS, HAROLD E, JR 76 SOUTH LAURA STREET JACKSONVILLE, FL 32202</p> <p>Title VICE PRESIDENT</p> <p>ARMS, JEFFREY B 315 EAST ROBINSON STREET ORLANDO, FL 32801</p> <p>Title VICE PRESIDENT</p> <p>FOWLER, MELANIE E 4830 W. KENNEDY BOULEVARD SUITE 400 TAMPA, FL 33609</p> <p>Title VICE PRESIDENT</p> <p>MCGREGOR, GEORGE W 760 SOUTH LAURA STREET JACKSONVILLE, FL 32202</p> <p>Title VICE PRESIDENT</p> <p>SUAREZ, ERKI 8333 NW 53RD STREET DORAL, FL 33166</p> <p>Title DIRECTOR</p> <p>HENDERSON, JOHN W. 1917 S 67TH ST OMAHA, NE 68106</p> <p>Title VICE PRESIDENT</p> <p>SCHROEDER, SUZANNA B 500 7TH AVENUE NEW YORK, NY 10018</p> <p>Title ASSOCIATE VICE PRESIDENT</p> <p>BURKE, WILLIAM J 760 SOUTH LAURA STREET JACKSONVILLE, FL 32202</p> <p>Title SECRETARY</p> <p>DAVIES, ELISA B 1917 S. 67TH STREET OMAHA, NE 68106</p>	
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<p>Title ASSISTANT SECRETARY</p> <p>LORKOVIC, JILL M 1917 S. 67TH STREET OMAHA, NE 68106</p> <p>Title ASSISTANT SECRETARY</p> <p>HOFFMAN, ELIZABETH C 1917 S. 67TH STREET OMAHA, NE 68106</p> <p>Title TREASURER</p> <p>HEANEY, KATHLEEN M P 1917 S. 67TH STREET OMAHA, NE 68106</p> <p>Title ASSISTANT TREASURER</p> <p>COX, JOSEPH R 1917 S. 67TH STREET OMAHA, NE 68106</p> <p>Title ASSISTANT TREASURER</p> <p>WHITE, TROY L 1917 S. 67TH STREET OMAHA, NE 68106</p> <p>Title Assistant Vice President</p> <p>Maxwell, Philip Chad 500 Virginia ST East, Suite 1250 Charleston, WV 25301</p> <p>Title EXECUTIVE VICE PRESIDENT</p> <p>HUNT, JENNIFER E 4830 W KENNEDY BOULEVARD SUITE 400 TAMPA, FL 33609</p> <p>Title EXECUTIVE VICE PRESIDENT</p> <p>LECUREUX, DAVID 1917 S 67th St Omaha, NE 68106</p> <p>Title EXECUTIVE VICE PRESIDENT</p>



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