

J, ANDRES LOPEZ, P.E., P.ENG.

Vice President



Summary

J. Andres Lopez is a civil engineer with experience delivering highway, municipal, and mining projects. His technical expertise includes stormwater management, floodplain and watershed analysis, culvert design, storm drain design and hydraulic and hydrologic modeling. He has served as a liaison among key project stakeholders including water management districts, municipalities, counties, cities, and Departments of Transportation (DOTs) on a wide range of infrastructure and site development assignments. He has led projects from preliminary design and project management through issued-for-construction for stormwater management/drainage, water resources, and site development, supporting office leaders and directing staff in design, quality control, and federal/state/local permitting.

Areas of Technical Expertise

- Civil Engineering / Site Development
- Forensic Engineering
- Transportation Engineering
- Municipal

Education

- B.E., Civil Engineering, 2007, University of Applied Science Konstanz

Registrations

- Licensed Professional Engineer in TX, FL and Ontario, CAN

Certifications & Training

- ICPR 4 Workshop, Qualified Stormwater Management Inspector
- Low Impact Development Workshop, Project Management Essentials: Part 1

Select Project Experience

Forensic Engineering

Interstate Design Build, Completed a review of civil drainage design changes for a 16-mile Interstate widening project, focusing on drainage pipe and inlet quantities from RFP to RFC stages. Analyzed design consultant errors and omissions in the RFP drainage plans, their impact on RFC drainage and roadway plan completion.

Crane Creek, Brevard County, FL. Reviewed project documentation and field conditions related to stormwater management pond erosion and pool equipment area flooding to determine causation and prepared an expert report.

Residential Property, Manatee County, FL. Reviewed civil design documentation, grading plans, and field conditions for a residential property experiencing recurrent, site wide flooding during storm events to determine root causes and identify contributing drainage deficiencies.

Azur Resort, Osceola County, FL. Reviewed documentation and assessed field conditions of a property that experienced flooding during a storm event to determine the cause; provided recommendations for temporary flood mitigation measures.

Solar Farm, Okaloosa County, FL. Performed a site visit and reviewed relevant documentation to identify the causes of erosion and sedimentation across the site, including a pond berm failure and a ditch blowout that resulted in a channel forming on a neighboring property.

Auto Dealership at Interchange, FL. Completed a review of the civil drainage design for the Interstate express lanes extension including interchange improvements, to determine the causes of significant flooding that damaged vehicles and property at an auto dealership located near the interchange.

CONTACT

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CACTI Baseball Stadium, Palm Beach County, FL. Completed a stadium site inspection to investigate and identify causes of stormwater ponding in multiple areas surrounding the facility and prepared the drainage section of the expert report.

Brightline, All Aboard Florida C03, Palmetto, Brevard County, Florida. * Drainage Lead Engineer responsible for analyzing the impacts of a new railway track near a private property's backyard. By updating the existing ICPR model with surveyed data and as-built information. The new model helped determine the causes of flooding. Additionally, a supplementary ICPR model was created to propose a solution and eliminate the flooding.

MP 249 Trunpike, S Orange Ave and E Osceola Pkwy, Orange County, FL. * Development of an ICPR Model to simulate Hurricane Ian and determine causes for flooding in the area.

Lake Villa Sidewalk, Osceola County, FL. * Drainage design required at a new Lake Villa Way sidewalk from Dog Park to Royal Palms Drive. The drainage system consisted of several ditches that needed regrading and two side drains that required to be eliminated due to elevation constraints. These modifications were necessary to eliminate flooding in the area.

Twin Oaks Mitigation Bank, Osceola County, FL. * Analyzed the impact of a new development on the county's infrastructure by integrating two ICPR models. The new model was updated using available permits to accurately identify the causes of flooding.

Transportation Engineering

Brightline, All Aboard Florida, SR 528, Cocoa, FL. * Design of the rail stormwater system north of SR-528 between US-1 and Industry Road. The system is comprised of three ponds, several culverts and ditches. The system was design using ICPR 4. This task required the coordination with multiple disciplines and other consultants involved in projects at SR-528 and US-1.

CFX, SR-534 Segment 2, Orange & Osceola County, FL. * Design and preparation of the drainage and stormwater management design for the new proposed SR-534 Segment 2 from Laurette Blvd. to east of Jim Branch Creek. Design consists of 2 miles of new limited access highway that includes 7 stormwater management ponds, 1 floodplain compensation pond, 6 cross drains, 1 bridge and several thousand feet of ditches, shoulder gutter and pipes.

I-95 at Northlake Blvd, FDOT D-4, Palm Beach County, FL. * Drainage Engineer assisting in the Phase II submittal design analysis. Project consists of widening, milling and resurfacing Northlake Blvd and I-95. Tasks included stormwater pond design, best management practice analysis, storm drain design, plans preparation, spread and hydroplaning analysis, drainage documentation reports, coordination with different disciplines and public agencies.

FDOT, I-75 Improvements from SR 200 to SR 326, Marion County, FL. * Drainage Lead responsible for the drainage design and technical proposal for an 8 mile I 75 design build expansion, including coordination with multidisciplinary teams and ensuring compliance with applicable regulatory standards.

CFX, SR-534 Segment 2, Orange & Osceola County, FL.* Drainage Engineer Lead responsible for the drainage and stormwater management design for the 2.2 mile SR 534 Segment 2 limited access highway from Laurette Blvd. to east of Jim Branch Creek, including multiple stormwater management and floodplain compensation ponds, cross drains, a bridge, and associated conveyance systems, in compliance with applicable regulatory standards.

Brightline, All Aboard Florida C02, Orange & Brevard County, FL. * Drainage Engineer responsible for cross drain and storm drain design, ICPR model updates, preparation of drainage documentation and reports, and coordination with multiple disciplines.

High Speed Rail Conceptual & Phase I, Orlando International Airport to Tampa, Orange & Polk County, FL. * Drainage Engineer responsible for Phase I drainage design, including stormwater treatment facilities (ponds and swales) per SFWMD criteria, storm drain system design, analysis of existing cross drains, plan production, and coordination with other disciplines.

Brightline, All Aboard Florida at SR 528, Cocoa, FL. * Drainage Engineer responsible for design of the rail stormwater system north of SR 528 between US 1 and Industry Road, including three ponds, culverts, and ditches modeled in ICPR 4, with coordination across multiple disciplines and consultants.

Link427, Highway 427 Expansion, Toronto, Ontario. * Drainage Lead for stormwater management design on a P3 highway expansion from Finch Avenue to Major Mackenzie Drive, including highway widening and extension, new interchanges, and multiple over-/underpasses. Responsibilities included detailed design of 93 culverts, major watercourse crossings, wet and dry ponds, vegetated swales, preparation of design drawings and SWM documentation, coordination with agencies (MTO and others), and client/subconsultant management including budget and schedule.

Sworn Testimony

Deposition, Crane Creek Landings, LLC Homeowners Association v. MAI, et al, regarding drainage and stormwater management pond design and construction issues at Crane Creek Landings Townhomes, LLC, Melbourne, Brevard County, FL. April 20, 2026.