

JAMES Y. ZINNER, P.E.

EDUCATION

University of South Florida - 1983 - Civil Engineering

SUMMARY

FORCON International Corp. Consultant James Zinner, P.E., is a forensic civil engineer based out of our Brandon office. Jim earned his BS degree in Civil Engineering from the University of South Florida in 1983 and has been a full-time engineering consultant for over 33 years.

James' expertise is in civil engineering; consulting and inspections for Property and Casualty claims; analyzing design and construction defects; roof conditions analyses, flat and crowned; investigations of pedestrian incidents occurring in public right-of-way due to maintenance of sidewalks, green strips, and maintenance of traffic during construction; performed slip tests as part of slip and fall investigations; performed investigations of subsurface utility issues including: utility line and pavement failures, and groundwater pumping incidents; investigating moisture intrusion in roofs, walls, windows of building envelope; performed storm water management (drainage) investigations including pond system and paved ditch failures, paved parking facility drainage, and interior drainage plumbing; investigated subsurface directional drilling incidents; inspected stucco de-lamination; and consulting on public works code compliance.

LICENSES AND CERTIFICATIONS

Registered Professional Engineer, Florida - #44211

Registered Professional Engineer, Michigan - #6201040872

CAREER HISTORY

Forcon International Corp. - Forensic Consultant Engineer - 2012 to Present

Jim Zinner, PE – Civil Engineer contractor – Consults on and performs design and permitting of commercial site development projects and storm water management components of Hillsborough County and Florida Department of Transportation (FDOT) transportation projects – 2012 to present

Element Engineering, Group, LLC – Project Engineer – Engineered projects consisting of adult living facilities, apartments for at-risk residents, and transportation drainage components; performed plans and specification production; involved directly with clients and sub-consultants, such as MEP engineers; involved with construction administration – 2009 to 2011

Wade Trim, Inc. – Project Manager – Oversaw engineering staff concerned with site

development; managed design and permitting of a resort development located within an environmentally sensitive area and having a \$100 million-plus construction fee; developed master plans, studies, construction plans, and specifications for many commercial site projects; involved with transportation projects for municipalities, Hillsborough and Pinellas Counties, and FDOT; adhered to strict Quality Assurance/Quality Control (QA/QC) policies – 1985 to 1989, 1994 to 1997, 2005 to 2008

Hillsborough County Aviation Authority (HCAA) – Project Engineer – Design/permitting and planning of aviation infrastructure components at HCAA facilities including Tampa International Airport and all other HCAA General Aviation facilities – 2004 to 2005

Ayres Associates – Civil Engineer – Storm water management components were designed for FDOT and Hillsborough County projects; performed district wide inspections of storm water management facilities; analyzed hydraulic components for riverine bridge designs – 2002 to 2004

Engelhardt, Hammer and Associates – Civil Engineer – Involved in planning commercial site development projects with design and permitting, and construction administration – 2003

URS Corporation – Senior Water Resources Engineer – Managed, designed and permitted surface water resource projects and studies for many governmental agencies including U.S. Environmental Protection Agency, U.S. Army of Engineers, Southwest Florida Water Management District (SWFWMD), Hillsborough and Pasco Counties, FDOT, HCAA and others – 1997 to June 2002

Kisinger, Campo and Associates, Corp. – Transportation and Civil Engineer – Analyzed hydrologic and hydraulic components for FDOT roadway and bridge design projects; project engineer for a Tampa Housing Authority residential rehabilitation project – 1992 to 1994

Heidt and Associates, Inc. – Civil Engineer – Assisted with designing residential developments located within Hillsborough County; duties included geometric design and layout of subdivisions and permitting; dealt with environmentally sensitive areas and floodplain management areas – 1985 to 1989

CLM/Systems, Inc. – Software/hardware Engineer – Developed civil engineering software and adapting such to personal computers; performed hardware configuration of complete multi-user systems and single-user work stations and output components – 1981 to 1985

PROJECT EXPERIENCE

SITE – PRIVATE / COMMERCIAL / RESIDENTIAL

The Reserve at Sweetwater Estuary, Taylor County, Florida – Project Engineer for the design and permitting a proposed coastal resort and golfing community. The community featured a town center, hotels, restaurants, shops, canoe trails, and boardwalks, all to the benefit and promotion Taylor County as well as the residents and guests. The development will showcase the area's unique character, history and improving the environmental integrity of the nature coast.

Fairfield Inn, Corporex Business Park, Hillsborough County, Florida – Project Manager for a 100 room motel facility. Site, utility and storm water permits were obtained from the SWFWMD, FDOT, Hillsborough County and the City of Tampa.

Grady Pridgen Residential and Commercial Properties, Pinellas County, Florida – Project Engineer for The Madison and Park Place Apartments.

Mack Center II Remote Parking Facility, Mack Center II, Tampa, Florida – Project Engineer responsible for the design and permitting of a nine-acre facility located under the Leroy Selmon Expressway in Tampa. The site would have been located under a raised portion of the expressway and leased by a major developer from the Expressway Authority.

Sheraton Sand Key Renovation, Grand Couloir Corporation, Clearwater, Florida – Project Drainage Engineer responsible for site improvements involved with the renovation and up sizing of the existing onsite hotel and facilities. The 18-acre project involved designing and permitting the new storm water management system among proposed landscaped recreational facilities.

Grey Marina Commercial Marina Development, Port Richey, Florida – Project Engineer responsible for the storm water management design and permitting of a 13-acre marina facility located between Miller's Bayou and Old Post Road. A sanitary sewerage system was designed to provide sufficient boat effluent storage and gravity discharge to the adjacent sewer service.

Mosaic Channel Dredging, Hillsborough County, Florida – Engineer who permitted dredging a channel from Tampa Bay to the Mosaic facility located near Gibsonton, Florida.

Bell South Cellular Phone Tower Sites, Hillsborough County, Florida – Engineer for site and storm water design for two cellular tower sites.

Clearwater Jet Center, Pinellas County, Florida – Project Engineer for drainage, pavement, and grading of an apron for a Fixed Base Operation facility.

North Dale Mabry Mall Permitting, Lutz, Florida – Engineer who assisted in extending the life of a SWFWMD conceptual permit for a planned one million square foot mall site.

Keystone Remote Switching Unit, Pinellas County, Florida – Engineer for site design and permitting of a telecommunications facility adjacent to wetlands and floodplain

Magnolia Lakes, Cedarwood Development, Bradenton, Florida – Project Manager for services consisting of site layout, paving, grading, drainage design, and permitting for 560-unit condominium development. Project included storm water design for six ponds, flood plain mitigation, and utility design.

Long Lake Ranch Borrow Pits U1 and U2, Geraci Family Associates, Land O' Lakes, Florida – Senior Project Engineer responsible for the design and permitting of two large borrow pits on property planned for a large residential development. Coordination with environmental staff was required for preservation of on-site wetlands and wetland mitigation creation. The site was located adjacent to a City of St. Petersburg wellfield in Pasco County.

Southwest Basin Drainage Improvements, Sun N' Lake of Sebring Improvement District, Sebring, Florida – Senior Project Engineer responsible for the analysis and plans production to extend the life of a SWFWMD permit. A detailed model was developed for a 1600– acre portion of the overall residential development. Extensive effort was performed to preserve the original permit conditions. A 60-acre storm water treatment and attenuation pond was designed to accept the runoff for the partially developed Southwest Basin. Adjacent wetland mitigation areas were designed for impacts incurred by the large pond footprint area.

University Park DRI Study, P.K. Neal Communities, Manatee County, Florida – Project Engineer responsible for Development of Regional Impacts Study for a 984-acre golf and country club. Investigations and recommendations were made to resolve concerns by reviewers of the site development.

Cypress Meadows Subdivision, Hillsborough County, Florida – Design Engineer for design and permitting of the storm water management system. A detailed backwater analysis was performed on an adjacent creek for the design of a concrete box culvert crossing.

Tampa Palms Subdivision, Hillsborough County, Florida – Design Engineer for the development for an 8,500-acre environmentally sensitive subdivision in New Tampa. Designed and permitted utilities and storm water management facilities for Areas 1 and 2 of the phased subdivision.

Riverglen Subdivision, Riverview, Florida – Design Engineer for the development of a new subdivision of 607 homes. A master drainage plan was permitted for the storm water management system. Potable water and wastewater facilities were designed and permitted for the phased subdivision project.

Hickory Lakes Subdivision, Brandon, Florida – Design Engineer for master planning and permitting of a residential development, which will contain 265 lots. The storm water management system was design to discharge into a flood-sensitive outfall.

PUBLIC / MUNICIPAL

Duck Pond Watershed Analysis, Hillsborough County, Florida – Performed extensive modeling for large watershed located near and adjacent to the University of South Florida campus. The analysis identified flood prone areas and capital improvement project identification for Hillsborough County Storm Water Department.

Rio Pinar Watershed Study and Drainage Improvements, Orange County, Florida – Project Engineer for a comprehensive study of a 2-square-mile urban watershed, including evaluation of existing flows, water quality, environmental issues, and public involvement. Work also included design, construction plans, and specifications for the watershed drainage improvements.

Zephyr Creek Design Unit 2, Pasco County, Florida – Design and permitting for a 1.4-mile outfall ditch for Pasco County and six structures were designed for waterway crossings.

Bacon Lake Bank Improvements, Hillsborough County, Florida – Senior engineer for the design and permitting for remediation of severely eroded banks at an existing storm water facility

Shady Oaks and The Rocks Utility Study, Polk County, Florida – Engineer for planning study and conceptual design for remediation of impacts to two fishing communities from raising Lake Kissimmee peak stage as programmed for the Kissimmee River Restoration by the U.S. Army Corps of Engineers.

Tampa Bypass Canal and Lake Fannie Berm Repair, Hillsborough & Polk Counties, Florida – Design engineer for repairs for two SWFWMD levees along the Tampa Bypass Canal and Lake Fannie (central Polk County) that failed due to the El Niño storms of 1998-1999.

Hillsborough County Aviation Authority, Various Projects, Hillsborough County, Florida – Engineer performed numerous storm water facility design, inspections, and permitting projects at Tampa International Airport (TIA) as well as other HCAA general aviation facilities at Vandenburg, Plant City, and Peter O'Knight airports. Storm water designs included projects located at the TIA Post Office parking facility, Continental Airlines Reservations Center, Raytheon Terminal, FedEx facility, and the Vandenburg Special Purpose Aviation Area.

Pinellas Park Water Management District (PPWMD) Haines Road Crossing, Pinellas Park, Florida – Permitting engineer for a culvert crossing extension at Haines Road for PPWMD. Permits obtained from SWFWMD and Florida Power Right-Of-Way Department.

Tampa International Airport (TIA), Sanitary Sewer Inventory, Tampa, Florida – Performed engineering inventory of sanitary sewer and oil/water separator systems located on the entire airport property, including those servicing both public and private tenants.

Tampa International Airport (TIA), Storm water Pollution Prevention Plan and Best Management Practices Inspection, Tampa, Florida – Engineer that inspected numerous HCAA, public, and private tenant facilities to assure compliance with the Storm water Pollution Prevention Plan, as required for Environmental Protection Agency multi-sector permit.

Lake Gillooly Weir Repair, Orange County, Florida – Engineer who performed field investigation for damaged lake control structure at Orlando International Airport and prepared plans for repairs.

Gulfport Waterfront Park, Gulfport, Florida – Project Engineer for design and permitting of a waterfront park including parking, landscaping, and recreational facilities.

Greensprings Drainage Improvements, Safety Harbor, Florida – Design engineer for drainage improvements and roadway rehabilitation of 4th, 5th Streets, and 5th Avenue in Safety Harbor. The proposed system conveys, attenuates, and treats runoff from a 55-acre drainage basin before discharging into Mullet Creek.

North Boulevard Homes Public Housing Renovation, Tampa, Florida – Senior Project Engineer for a rehabilitation and expansion of the parking facilities for the Tampa Housing Authority. Design, plans preparation, permitting, and specifications were developed to retrofit the existing drainage system to provide storm water treatment for the proposed improvements. Onsite potable water distribution and sanitary sewer collection system design and permitting were performed.

Coquina Beach Multi-Use Trail, Manatee County, Florida – Senior Drainage Engineer on a project involving consulting services for the design and permitting of a 1.5-mile multi-use trail on Anna Maria Island.

Buckingham Community Park, Lee County, Florida – Project Design Engineer for the storm water design and permitting for a 135-acre recreational facility near Lehigh Acres. Services included storm water modeling and analyses to obtain a Development Order from Lee County and construction permits from the South Florida Water Management District (SFWMD). A fire distribution system drawing from adjacent storm water ponds was designed.

Largo Community Center, Largo, Florida – Design Engineer for reconstruction of the Community Center's water and wastewater extensions.

Boggy Creek and Lake Hart Watershed Project, Orange County, Florida – Project Engineer for a 135-square-mile project which included flood mitigation and water quality improvement. Portions of the watershed are located within the jurisdictions of the St. John's River and South Florida Water Management Districts. The master plan included conceptual design and best management practices and both structural and non-structural elements.

Injection Well and Large Septic System Study, Florida – Field studies performed to locate gravity storm water wells and large septic tank systems within six census tracts located within various counties in Florida.

AMI Memorial Hospital Deep Profile Retention/Detention Pond, City of Tampa and AMI Memorial Hospital, Florida – Permitting Engineer and construction Inspector responsible for an innovative parking facility constructed over a 2.3-acre regional storm water attenuation and treatment pond. The project was a joint participation agreement with the City of Tampa and AMI Memorial Hospital.

TRANSPORTATION

U.S. 41 Florida Avenue Waters to Linebaugh Resurfacing Project, Tampa, Florida – Engineer on a project involving restoration, resurfacing and rehabilitation of existing five and six lane urban roadway.

U.S. 92 (Baker and Reynolds Streets, Plant City) Resurfacing Project, Tampa, Florida – Drainage Engineer on a project involving restoration, resurfacing and rehabilitation of existing two lane urban and rural roadways within Plant City. Drainage components were designed and permitted for two railroad crossings.

I-275, Howard Franklin to Hillsborough River, FDOT and City of Tampa, Florida – Utility Engineer for the widening of a section of I-275; coordinated re-routing and abandonment of water lines and other utilities, and development of plans for project limits.

SR 39 PD&E, Plant City, Florida – Drainage analyses were performed for planning proposed and existing highways reconstruction and documented in a Location Hydraulics Report (LHR) and a Pond Siting (PSR) Report.

DART G-2 Floodplain Structure Scour Analysis, Dallas, Texas – Performed a scour analysis for a Dallas Area Rapid Transit (DART), Light Rail Transit Bridge over the White Rock Creek floodplain. The existing railway crosses four waterways within the floodplain and will be replaced with one 4,695-foot long structure to minimize floodplain and wetland impacts.

102nd Avenue and 60th Street Reconstruction, Pinellas Park, Florida – Project Manager for the reconstruction of 1.3 miles of two collector roadways for the City of Pinellas Park. The project included roadway plans and specification preparation, including the design and permitting of the roadway drainage system.

U.S. 17 (S.R. 35) Reconstruction North of Arcadia, DeSoto County, Florida – Drainage Engineer on a four lane divided rural highway reconstruction project. Services included a Bridge Hydraulics Report of four riverine crossings along the alignment. One of the crossings was analyzed for FEMA Floodway approval.

Leroy Selmon Crosstown Expressway, Hillsborough County City-County Expressway Authority, Tampa, Florida – Drainage Engineer who performed a Location Hydraulics Report and Pond Siting Reviews for the planning phase of an elevated reversible express lanes project.

Homestead Extension of Florida's Turnpike (HEFT), Florida Turnpike Authority, Dade County, Florida – Drainage Engineer for a project which included the addition and realignment of interchange ramps at the Allapattah, Biscayne, and Campbell Drives intersections.

Veterans Expressway, Hillsborough County City-County Expressway Authority, Tampa Florida – Drainage Engineer on a 1.4-mile section of a four lane limited access expressway with 0.8 miles improvements of Dale Mabry Highway. Duties included modeling, design and permitting of the surface water management systems.

PR 66, Carolina and Canovanas and SWPPPs, Puerto Rico DOT, Puerto Rico – Project Engineer on a project which consisted of a 40-acre mitigation area to offset wetland and forested impacts associated with a highway project. Prepared SWPPP plans for numerous roadway projects.

S.R. 78 Bridge Replacement, Glades County, Florida – Hydraulics Engineer on an FDOT bridge replacement project over Canal L-41, a works of the SFWMD. A Bridge Hydraulics Report (BHR) was produced showing the recommended hydraulic structure for the crossing and scour effects.

S.R. 584 (Tampa Road) and S.R. 586 (Curlew Road), Hillsborough and Pinellas Counties, Florida – Drainage Engineer on a reconstruction project of two contiguous arterial roadways north of the Tampa Bay area. Project required 6 miles of new storm sewer. A tidal Bridge Hydraulic Report was performed for the S.R. 586 Bridge across the Lake Tarpon Canal Outfall Canal.

U.S. 41 (S.R. 45) From Alico Road To Island Park, Lee County, Florida – Drainage Engineer on a reconstruction project of an existing rural two lane road into a four lane divided rural highway requiring a Pond Siting Report.

S.R. 29 and S.R. 832 (Keri Road), Hendry County, Florida – Drainage Engineer; performed hydrologic and hydraulic analyses for 23 cross drains and small bridges. Field investigations were made and a Location Hydraulic Report (LHR) proposing alternative structures for all crossings was developed.

S.R. 60A (Van Fleet Drive) U.S. 17 Interchange Pond Siting, Bartow, Florida – Drainage Engineer who developed a pond siting report recommending sites for the reconstruction of an urban interchange.

S.R. 688 (Ulmerton Road), Pinellas County, Florida – Drainage Engineer on a 1.6 mile widening of Ulmerton Road between U.S. 19 and Roosevelt Boulevard requiring drainage improvements.

S.R. 80 (1st and 2nd Avenue) Improvements, Ft. Myers, Florida – Drainage Engineer for an improvements project of a one-way roadway pair minor realignment of 1st and 2nd Avenues in Ft. Myers required roadway drainage design and permitting. Subsurface drainage was recommended for a proposed bridge improvement at Billy's Creek.

Keystone Road, Pinellas County, Florida – Drainage Engineer for a six lane divided highway from U.S. 19 to East Lake Road.

WATER AND WASTEWATER

Tarpon Springs Water Distribution Analysis, City of Tarpon Springs, Florida – Project Engineer responsible for the analysis of the City of Tarpon Spring's potable water distribution system. The western portion of the City's distribution system was analyzed. Services included coordination with city forces to verify existing system geometry. Other services required field-testing of hydrant flows to calibrate the final model. Pipe replacement recommendations to improve the system were made to the Public Works department. Mapping of the existing distribution system was performed for the project.

Glen Subregional WWTP, Hernando County and Glen Lakes Partners, Florida – Project Design Engineer responsible for services including site design, storm water management system, roadway layout, piping design for a 1.0 MGD wastewater treatment plant. Coordination was required for a Ground Penetrating Radar (GPR) study of the underlying stratum. The client was Hernando County and the project was funded by a local private developer.

Sanitary Sewer Rehabilitation, Town of Redington Beach, Florida – Project Engineer for plans production of the complete renovation of the gravity sanitary sewer system. Plans and specifications were prepared for the replacement of the town's outdated system, which had been damaged by the marine environment.