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Engineers – Planners – Surveyors

**NELSON V. PEREZ, P.E.**  
Sr. Project Engineer

**PROFESSIONAL REGISTRATION:** Florida #32025; Georgia; Puerto Rico; Florida General Contractor License # 049,696

**EDUCATION:** Master of Science in Civil Engineering, Georgia Institute of Technology, 1978; Bachelor of Science in Civil Engineering, Georgia Institute of Technology, 1976

**EXPERIENCE SUMMARY:** Mr. Perez has 22 years of experience in construction engineering and management of major transportation projects including rapid transit, road and bridge improvement projects. Mr. Perez has extensive experience as a Construction Resident Engineer having completed nine (9) projects for FDOT and two (2) projects for Broward County in the last twelve (12) years. He has managed complex maintenance of traffic projects and has held positions in quality control, traffic engineering, highway design and transportation planning. He is currently serving as Corporate Manager for the following CEI Project: FDOT District VI Palmetto Expressway/NW 25 Street Interchange. In addition, Mr. Perez recently served as Corporate Manager for the following CEI Projects: City of Homestead SW 344 Street from SW 172 Avenue to SW 137 Avenue; Florida's Turnpike HEFT Widening from SR-874 to SW 186 Street; FDOT District VI SW 8 Street (Calle Ocho) Reconstruction from Palmetto Expressway to SW 27 Avenue; City of Homestead Pioneer Village Development, Village of Pinecrest Resurfacing Program, the FDOT District IV US-1 Reconstruction in Boynton Beach and the FDOT District IV Las Olas Blvd. Bascule Bridge Rehabilitation Project. Following is a list of representative projects:

**Hallandale Beach Blvd. Bridge Replacement, Broward County for FDOT District IV.** Currently serving as Project CEI Resident Engineer for this twin bascule bridge replacement project with a construction cost of over \$35 million. The contract involves the twin two-span three-lane bascule bridge replacement project with cast-in-place box girder approach spans and a cast-in-place box girder left turn flyover from Northbound SR A1A to Westbound SR-858/Hallandale Beach Blvd. (FDOT Reference: Melvin Finch, 954-455-2092).

**Venetian Causeway Rehabilitation Project and the Bird Road Improvement Project for FDOT District VI; I-95 Milling & Resurfacing Project in Martin County and the Broward General CEI Services Project for FDOT District IV.** Served as Corporate Manager.

**Collins Avenue Reconstruction, Miami-Dade County for FDOT District VI.** Served as CEI Resident Engineer. Project improved the level of service along a 2-mile section of SR-A1A (Collins Ave.) by providing reconstruction, resurfacing, drainage improvement, left turn storage and access modifications. Two (2) construction contracts were administered under one CEI agreement. Project 87050-3503 involved roadway reconstruction, milling, resurfacing and incidental work along a 1.5-mile section between 163rd St. and 195th St. Project 87060-3504 covered roadway



reconstruction, milling, resurfacing and incidental work for a 0.4 mile section from 158th St. to 1,000 feet south of 163rd St. Projects involved complex management of utility relocation work involving six (6) different utility contractors and extensive public involvement during construction. (FDOT Reference: Ron Klein 305-499-2363).

**I-95 Expansion Projects, Miami-Dade County for FDOT District VI.** Served as CEI Resident Engineer. Projects 87270-3508/3475/3415 totaling approximately \$27 million construction cost. Work comprised of widening and reconstruction of 1.6-miles of I-95, 2 ramps at the I-95/SR-836 Interchange and construction of 3 new ramps within the interchange. The majority of construction was structural with over 20,000 LF of pre-stressed beams, 4,800 ft. of drilled shafts and 34,200 ft. of pre-stressed concrete piling. Work also involved extensive night operations and daily coordination of maintenance of traffic for 3 different contractors working on the I-95/SR-836 and I-95/SR-112 Interchanges.

**Hillsboro Blvd. Bridge, Broward County for the Turnpike District.** Served as CEI Resident Engineer. Approximate total construction cost of \$7 million. Project involved the construction of a new 3 span AASHTO conventional concrete bridge over the Turnpike for Hillsboro Blvd., and widening a stretch of the Turnpike from Sample Road to Glades Road approximately 2 miles long. Project required complex maintenance of traffic set ups to construct a bridge over the Turnpike while maintaining 4-lanes of traffic for most of the time.

**Palm Avenue Reconstruction from Stirling Road to Taft Street for Broward County.** Resident Engineer for 2 Broward County projects involving total reconstruction and widening of an important section of Palm Avenue through the Cities of Pembroke Pines and Cooper City. Approximate total construction cost of \$6.5 million. Project involved complex utility coordination, construction of new drainage system, subsoil excavation, new limerock base and structural asphalt.

**I-75 Alligator Alley, Broward County for FDOT District IV.** Resident Engineer for the construction administration and supervision of 3 CEI Projects 86075-3428/29/30 comprising 26 miles of new construction, and reconstruction of a 4-lane Interstate Highway including 21 new bridges and 11 reconstructed bridges. Peak manning consisted of a construction CEI staff of 27 persons. He developed and reviewed FDOT construction policies, practices, and procedures, and documented and prepared change orders and supplemental agreements. Upon project completion, he remained responsible for review and analysis of major construction claims related with the presence of montmorillonite in the embankment. He analyzed extra work issues, delay claims and prepared reports to seek FHWA participation.

**Rapid Transit, Miami-Dade County, Florida.** Senior Construction Engineer for the construction of the Miami Metrorail System. During this tenure Mr. Perez was involved in all aspects of Construction Engineering and Inspection for the north line of the Miami-Dade County Metrorail System (approximately 10 miles long). He reviewed and processed contractor's submittals, performed Interpretative analysis of change



conditions, reviewed and analyzed engineering and change proposals, evaluated existing conditions of contractor's defective work and recommended resolutions to implement in the field. Later, Mr. Perez had the responsibility of approving all concrete construction pertaining to the line section contract #N205/215/315 (a.6.9 mile long segment of the north line of Metrorail). He performed engineering inspection of all columns and pier cap construction and was responsible for approval of all steel placement in the above-mentioned structures prior to concrete pour. Subsequently, Mr. Perez was assigned to the Miami-Dade County's Metrorail system-wide quality assurance team. As part of this team, He was responsible for approval of all concrete remedial work for the north line sections of Metrorail from overtown station through the end of the north line. His duties also included the performance of post construction destructive and nondestructive tests to evaluate the condition of the Metrorail guide way supporting structures (system-wide) and recommended resolutions based on the findings. Mr. Perez played a key role in the analysis of the construction claims dealing primarily with the construction of the post tensioned hammerhead pier caps.

**Rapid Transit, Miami-Dade County Florida.** Traffic Design Engineer providing services for traffic engineering contract drawings related to the design/construction of Miami-Dade County Metrorail System. His primary duties included MOT plans to devolve traffic safety through the construction sites of the rapid transit side platform stations. Mr. Perez was also responsible for review of control point submittals related to MOT at SR-836 and SR-112 during construction of Metrorail. These two major thoroughfares intersect with the Metrorail System. He designed new signal installations to accommodate traffic related by the arrival of the Metrorail. Mr. Perez prepared signing and pavement marking, channelizing, and geometric improvement plans to upgrade the existing roadway network along Metrorail, especially in the north corridor. He also wrote specifications and developed standards for these plans.

**Georgia DOT in the Transit Division.** Served as Transportation Engineer performing transit related studies and making recommendation for improvements.

**Georgia Department of Transportation.** Served for one year as a P.E. Trainee. Transportation Planner reviewing the operations of bus routes for the City of Columbus, Georgia. In addition, Mr. Perez worked as a construction inspector for all drainage work for a section of I-285 in Atlanta. Additionally, he worked as a Highway Design Engineer assisting plans preparation for several highway improvement projects around Atlanta, Georgia.