

Robert R. Sprinkle, P.E., AICP

Sprinkle Consulting, Inc.

Planners and Engineers
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Sprinkle
CONSULTING

Planners + Engineers

REGISTRATION

Professional Engineer, State of Florida, Registration No. 32691
American Institute of Certified Planners, Registration No. 507929

EDUCATION

Bachelor of Science in Engineering
University of South Florida, Tampa, Florida, August 1977

PROFESSIONAL ORGANIZATIONS

American Society of Civil Engineers
Institute of Transportation Engineers
American Planning Association

AWARDS AND PRESENTATIONS

"Community Design Award of Merit for Project Engineer" by the Planning Commission for Publix Store #21

"Demonstration of Biotreatment of Industrial Stormwater" presented at the Third Biennial *Stormwater Research Conference*, Tampa, Florida 1993

"Industrial Stormwater Treatment Through Evapotranspiration, Port of Tampa" presented at the *ASCE Ports 95 National Conference*, Ft. Lauderdale, Florida 1995

EXPERIENCE

January 1980 to Present
President, Sprinkle Consulting Engineers, Inc.
Tampa, Florida
See Professional History for a detailed experience description.

September 1970 to July 1980
President, Sunshine State, Inc.
Tampa, Florida
Roadway contractors and developers.

March 1970 to July 1989
Major (ret.) United States Army Reserves, Corps of Engineers
32nd Transportation Group (Terminal), Tampa, FL
Served as Port Engineer for planning and logistics. Duties included planning and operations in ports throughout the United States and the world.

1968 to 1969 – Ft. Leonard Wood, Missouri
1st Lieutenant, Company Commander, United States Army Corps of Engineers

1967 to 1968 - Vietnam United States Army Corps of Engineers)
Division Engineer Liaison Officer (six months)
Combat Engineer Platoon Leader (six months)
Awards - Bronze Star

EXPERIENCE

Mr. Sprinkle has over twenty five (25) years of comprehensive experience in the related fields of transportation planning and civil engineering. Although Mr. Sprinkle has the managerial responsibility for the firm of Sprinkle Consulting, Inc., he is involved in the technical aspects of many of the firm's projects. His land use planning and civil engineering expertise includes work in site planning, traffic and community impact assessments, environmental design, roadway planning and design, hydrology and master drainage planning.

Mr. Sprinkle has extensive experience in transportation systems planning for metropolitan areas. He is involved in both multi-modal systems analysis and planning as well as inter-modal facilities planning. Mr. Sprinkle has planned and coordinated truck route plans for military and civilian goods movements in metropolitan areas throughout the United States and the world. He managed the consultant team which developed the highly successful comprehensive *Truck Route Study and Plan* for the Hillsborough County metropolitan area and has served as the primary network analyst for goods movements in the Tampa Mobility Enhancements Study, a multi-million dollar Major Investment Study (MIS). Mr. Sprinkle led a consulting team in an MPO Long Range Transportation Plan review and update that received high acclaim from the FHWA for its ISTEA 15 Factor compliance.

Mr. Sprinkle maintains "hands on" proficiency with computer applications for traffic engineering and transportation planning. He pioneered the development of the FSUTMS supporting application, the *ZDATA Interpolation Program*, a computer-based transportation planning tool Beta-tested by the FDOT's Central Office and distributed by McTRANS. The Program is regularly used statewide by MPO and FDOT planners for regional transportation planning applications and is nationally distributed by McTrans, the MicroComputers Transportation Research Center at the University of Florida.

Over the past thirty-two (32) years, Mr. Sprinkle has been involved in a wide variety of port operations ranging from hands-on cargo movement to highway planning for increased port throughputs. Mr. Sprinkle has planned and coordinated truck route plans for civilian and military shipping in metropolitan areas throughout the United States and the world. His work involves close coordination with industry and business interests, local residents, law enforcement agencies, local governments and school boards. His plans include roadway inventories and evaluations based on a variety of factors including land use, road pavement and geometric conditions, and seasonal freight activity. Often, his role consists of coordinating substantial public input and careful conflict resolution.

In the area of highway and roadway design engineering, Mr. Sprinkle has completed numerous projects. Incorporating extensive enclosed drainage systems, his projects range from residential and industrial subdivision infrastructure design to major arterial frontage sections (both county and state highways) with features such as curb and gutter, utility relocation, traffic control and extensive hydraulic analysis and stormwater (FDOT, State Water Management District, DER, ACOE, and local) design and permitting. He has been in direct responsible charge of the design and production of construction documents for numerous urban and rural roadways throughout Florida.

Mr. Sprinkle's civil engineering work has also involved hydrology and stormwater management design. He is a recognized expert in computer simulation of stormwater management. He and his staff employ HEC 1, HEC 2, Basin Run-off Network (BRN), Inter Connected Pond Run-off (ICPR), SWMM, MUDD and other stormwater and hydrology programs including their own software programs written in-house. Because of Mr. Sprinkle's extensive knowledge of hydrology, Sprinkle Consulting, Inc. was selected as a BETA test site for both the BRN and MUDD software programs. Mr. Sprinkle was also instrumental in Hillsborough County's 1982 adoption of the United States Soils Conservation Service methodologies for inflow hydrograph modeling and the adoption of the Modified-Puls method for storm routing.

Mr. Sprinkle's papers regarding his research in stormwater and hydrology issues have been published in conference proceedings. He conducts continuing stormwater research for industrialized areas. He has received grants from the Environmental Protection Association through their "Save our Estuaries" program, the University of Florida, the Tampa Port Authority and the Tennessee Valley Authority for his stormwater research. His written works have been cited by others conducting research in similar fields.

Mr. Sprinkle has extensive experience with environmental issues confronting transportation projects and land development. He is familiar with the federal, state and local environmental regulations and has designed many development and road projects in areas with wetlands that presented substantial difficulties. Mr. Sprinkle has guided numerous projects through the maze of environmental permit regulations. His site designs consistently minimize the detrimental impact of wetlands while addressing all the concerns of regulatory agencies. Mr. Sprinkle has authored rule changes to the Hillsborough County Environmental Protection Commission to allow offsite upland mitigation to replace wetlands displaced by development.



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