

James R. McLellan, P.E.
Principal Construction Engineer

Education

University of Maine - B.S., Civil Engineering, 1965

Registration/License

Florida Professional Engineer Number 40634
Wyoming Professional Engineer Number 1169

Employment History

Stanley Consultants, Inc.	July 1974 to Present
Wyoming Department of Transportation	June 1965 to July 1975

Experience Summary

Professional experience since 1965. I am presently the Department Head for Construction Management Services in Florida with Stanley Consultants, Inc. I am responsible for budget and schedule control, contractor tendering, client liaison, contract administration, issuing change orders, evaluating and mitigating claims, preparing reports, and quality control/assurance.

Professional experience encompasses all aspects of highway construction including design, construction management, value engineering, contract administration, quality control testing, surveying, construction scheduling, and cost estimating. Other experience includes civil design, report preparation for civil projects, planning studies, preliminary surveys, and resident engineering.

Major projects include construction manager on transportation projects involving highways, railroads, bridges, street lighting and traffic control, storm sewers, and rest areas. Utility projects including a 4 mgd membrane softening water treatment plant, 400 MW coal-fired power plant, 500 MW coal-fired power plant, FGD effluent and fly ash disposal system for a 500 MW coal-fired power plant, earth dam construction for landfill runoff control, sewer separation and rehabilitation, sand filter water treatment plant, and water distribution systems.

Design engineering assignments include services for the Jog Road, Boynton Beach Boulevard to Boynton Canal; the I-95/Palmetto Park Road interchange; and Palmetto Park Road from I-95 to Ninth Avenue. All are located in Palm Beach County, Florida.

Value Engineering assignments include the I-10 Superstition Highway interchange in Phoenix, Arizona.

Responsibilities include supervision of a multidiscipline resident staff and overseeing the work on multi-prime construction sites.

Representative Projects

(Dates Approximate)

SR 834/Sample Road, N.W. 5th Terrace to U.S. 1 (Federal Highway); Department of Transportation, District Four; Contact: Melvin Finch (954)958-7632 - Senior Project Engineer. Project scope includes milling and resurfacing of 2.1 miles of SR 834. Also included in the scope are Realignment of exit ramps at the I-95/Sample Road Interchange and drainage improvements. Responsible for the day to day operation of the construction and over all management of the project. (04/06 – 04/07).

C-43 Design, (Berry Groves): SFWMD; Contact: LuAnn McVicker (561)242-5520-x4068 – Scheduler for the design phase on the C-43 Basin West Storage Reservoir which is part of a project to provide reservoir storage for the entire Caloosahatchee River basin as part of the Comprehensive Everglades

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Restoration Plan (CERP). I have been involved in the setting up and periodic maintenance of the design schedule since April 2004. I was also involved in providing an Opinion of Cost for the BODR in January 2005. (03/04 – present)

SR 5/US 1, Sample Road to Hillsboro Boulevard; Department of Transportation, District Four; Contact: Melvin Finch (954)958-7632 - Senior Project Engineer. Project scope includes milling and resurfacing of 2.9 miles of SR 5. Also included in the scope were landscaping, irrigation and drainage improvements. Responsible for the day to day operation of the construction and over all management of the project. (04/05 – 02/06).

SR 5/US 1; Hobe Sound Martin County; Department of Transportation, District Four; Contact: Mickey Kelly (772)489-7129 – Senior Project Engineer. Project scope includes milling and resurfacing of 1.9 miles of SR 5. Landscaping Irrigation and drainage modifications including retention Pond were also included. Responsible for the over all management of the project. (11/04 – 08/06).

Work Order No. C-15987-WO07-07, Record Matching and Permit Book GIS, SFWMD; Contact: Project Manager: Dennis Meierer (561)682.6673 – Project Manager to assisted the South Florida Water Management District's Right of Way (ROW) Division in matching and integrating the records in its Land Information Systems (LIS) databases. This was done in order to establish Quality of Title for ROW tracts, in preparation for the migration to a consolidated land management system platform.

The objective of this project was to create a link between the Geo-database for the Canal Right of Way GIS Polygons and the Right of Way Acquisition Atlas Database based on established Tract Numbers. This included the provision of correct estate mapping for the GIS polygons, as well as a link to other property information.

The Matching Records tasks, utilizing Microsoft Access consisted of matching the Right of Way Tracts to GIS Polygons that have the same WMD number. In order to accomplish the matching task, Stanley Consultants utilized the Geo-database for the Canal Right of Way GIS Polygons, the Right of Way Acquisition ATLAS Database and Copies of the Deeds provided by the SFWMD. (08/04 – 05/05)

Work Order No. C-15987-WO04-04, SESS Data Recorder Upgrades; SFWMD; Contact Wayne Herrmann – Served as Project Manager to research of property owners on 17 rainfall and stream depth data collection sites. Scope included site visits and condition evaluation, as well as preparation of site plans to upgrade sites for telemetry. We also contacted and coordinated with the property owners (public and private) to secure new easements where necessary. (10/03 – 10/04)

Multiple Bridge Work, Resurfacing, & Interchange Projects; Florida Department of Transportation, Turnpike District; Contact: Bill Sears (954)975-4855 ext. 1115 - Served as Project Manager. This project consists of Construction Engineering and Inspection services on eight construction projects, which were contracted by the Department of Transportation in five construction contracts. Two of the projects included painting of a bridge. One of the bridges was a single span bridge located on the turnpike, passing over Glades Road in Boca Raton, Florida. The other bridge was a seven span bridge located on the turnpike over the C-23 Canal (Bessy Creek) in north Martin County, Florida. Construction Cost for this portion: \$459,905.80.

Two other projects that were let as one contract included a project to mill and resurface 4 miles of the turnpike and the interchange ramps for the Lake Worth Road Interchange in Lake Worth, Florida, and one project to widen and realign the northbound entrance ramp at the Lake Worth Road Interchange. This

project included widening a three span bridge over a drainage canal. Construction Cost for this portion: \$3,721,761.29.

Two other projects which were let as a single contract include a project to replace the existing bridge deck on the four span bridge on the turnpike where it crosses Loxahatchee Creek just north of Jupiter, Florida, and a project to replace the existing bridge deck on the four span bridge on the turnpike where it crosses Cypress Creek just north of Jupiter, Florida. These projects include replacement of the original portion of the deck one travel lane at a time with a total time from lane closure to lane open of 6.5 days. This time period includes demolition, forming, placing reinforcement and concrete, and achieving 28 day design strength to carry traffic. Construction Cost for this contract: \$2,117,480.30.

One contract includes a project to mill and resurface approximately 4.5 miles of the northbound lanes of the Turnpike in Palm Beach Gardens, Florida and to make some minor changes to the Northbound ramps at the PGA interchange in Palm Beach Gardens. Construction Cost: \$1,359,119.54.

The last contract is to add turn lanes at the Glades Road Interchange in Boca Raton, Florida, and install new traffic signals. Construction Costs for this contract: \$396,825.15. (06/02 – 08/03)

SR 5 (Dixie Highway) Reconstruction; Florida Department of Transportation, District Four; Contact: Al Ewing (561)432-4966 - Resident Engineer for the reconstruction of Dixie Highway. Project scope includes total reconstruction of approximately one mile of urban roadway in high profile area of downtown West Palm Beach. Responsibilities includes management of inspection staff and inspection of daily construction activities including utility relocations, materials testing, MOT inspections, and daily reports. (07/99 – 06/02)

Rainbow Interchange Bridge Painting (18 Bridges); Florida Department of Transportation, District Four; Contact: Jay Jalali (954)958-7641 - Served as Project Manager. Project scope includes maintenance painting to 18 steel bridge structures located at the I-95/I-595/SR 84 Corridor, and adjacent to the Ft. Lauderdale/Hollywood International Airport. The following work elements include: pressure washing, surface preparation by power tool cleaning (SP-11), application of spot primer coat, application of full primer coat, and application of waterborne acrylic finish coat. Project also includes some interior box-beam cleaning and priming. Contractor will install approximately 219 steel access hatches at various locations throughout 17 box-beam structures (both replacements and new locations). The contractor will also install two Traffic Monitoring Sites (TMS) at locations on EB and WB I-595. Contractor is required to maintain and monitor MOT traffic control during all phases of work, due to the required temporary lane closures, for all overhead bridge work (day and night shifts). (10/01 – 07/03)

Pro Player Stadium Bridge Painting; Florida Department of Transportation, Florida's Turnpike District; Contact: John Black (954)975-4855 ext. 1181 - Senior Project Engineer for the maintenance bridge painting at Pro Player Stadium, for Bridges #870701 and #870702. Project scope included total removal of the existing lead-based coating system for both bridges, and cleaning and re-coating of the concrete bridge parapet walls (Class V). The Contractor utilized a total containment system for work on both bridges, while completing the blasting and re-coating of all structural steel elements. Responsibilities included management of the Project/Office Engineer and assisting in project coordination. (06/00 – 02/01 & 10/01 – 02/02)

SR 809/Military Trail; Florida Department of Transportation, District Four; Contact: Al Ewing (561)432-4966 - Resident Engineer for this project which includes all aspects typical to urban highway construction including construction management, inspection and testing services for reconstruction of 6.4 km of Military Trail, an urban roadway carrying 46,500 vehicles per day through retail commercial property. Connecting side streets service as access to residential property. The project is divided into two construction projects with two prime contractors. Project consisted of milling and resurfacing of an existing 6-lane roadway, construction of two bike lanes and rehabilitation of the drainage system by in-

place methods. The construction included replacement of curb and gutter, side and inlets; signing; signalization; sodding; landscape asphalt base course; asphalt paving; and pavement markings. The project required close coordination with existing utilities which were adjacent to elements of the drainage system. (06/97 – 08/99)

SR 969/NW 72nd Avenue (Milam Dairy Road); Florida Department of Transportation, District Six; Contact: Ali Al-Said (305)499-2390 - Resident Engineer for this construction engineering and inspection project which included all aspects typical to urban highway construction. Responsible for all construction management, inspection, and testing services for reconstruction of 3 miles of Milam Dairy Road, an urban roadway carrying 30,100 vehicles per day through a commercial, warehouse, and shipping area serving the Miami International Airport. The project consisted of milling and resurfacing of an existing 4-lane roadway, construction of 2 additional travel lanes, and renovation of the drainage system to meet new criteria for pollution control. The construction included replacement of drainage structures; installation of French Drains; replacement of curb and gutter; and replacement of sidewalks, signing, signalization, sodding, subgrade stabilization, base course, asphalt paving, and pavement markings. The project required close coordination with existing utilities which were adjacent to elements of the drainage system. (07/95 – 07/97)

SR 5 (US 1) Biscayne Boulevard; Florida Department of Transportation, District Six; Contact: Jim Sumoski (305)470-5389 - Resident Engineer for this construction engineering and inspection project which included all aspects typical to urban highway construction. Responsible for all construction management, inspection, and testing services for reconstruction of approximately 0.7 miles of Biscayne Boulevard, an urban roadway carrying 43,000 vehicles per day. The project consisted of removing existing 4 lanes of P.C.C. pavement and construction of a storm sewer system with numerous utility conflicts and vertical wells for water treatment, curb and gutter, sidewalk, and 8 lanes of AC pavement. The project also included landscaping and beautification, street lighting, and intersection signalization. (11/92 – 06/95)

Golden Gate Parkway (CR 886) Improvements; Collier County Transportation Engineering and Construction Management Department; Naples, FL - QA/QC Reviewer for project that involves the design to widen the existing roadway from two to six lanes. Total length of project is approximately 2 miles. The project includes conceptual through final design of a new interchange at Airport Pulling Road and Golden Gate Parkway, the first interchange by the County. The Project limits are from Airport-Pulling Road (CR 31) to Santa Barbara Boulevard. The work includes interchange planning and design, aesthetics package and visualization, traffic analysis, drainage, utility relocations, right-of-way acquisition, permitting, structural design, geotechnical investigations, and extensive public involvement. The Florida DOT is preparing final design plans for a new interchange at Golden Gate Parkway and I-75. With design occurring at various sections of the Golden Gate Parkway projects, extensive coordination between the designers, the Florida DOT, the County, and permit agencies is important.

West Water Treatment Plant; City of Boynton Beach; Contact: Bob Kenyon (561)742-6402 - Resident Construction Manager for this project consisting of construction permitting, bidding assistance, bid evaluations, contractor coordination, contract administration, construction engineering and inspection, record drawing preparation, operation and maintenance manual preparation, and operator training for a 4-mgd membrane softening water treatment plant. This project included degasifiers, off-gas scrubbers, standby generator, membrane skids, deep injection well surge system, and site work. (06/91 – 03/93)

Western Well Field Raw Water Mains; City of Boynton Beach; Contact: Bob Kenyon (561)742-6402 - Resident Construction Manager for this project consisting of the installation of raw water mains to connect the 8 wells in the western well field to the west water treatment plant. (06/91 – 09/91)

Various Roadway Design Projects including SR 7; Palm Beach County; Palm Beach County, FL – Design Senior Project Manager for the project consisted of the widening of a 1.1-mile section of State Road 7 from a 2-lane section to a 6-lane divided section. The design included the expanded intersection with

Yamato Road and the transition sections from four lanes to six lanes on the south end and from six lanes to two lanes on the north end. Work included right-of-way plans, drainage design and permitting, typical section, roadway design and permitting, signing, and pavement marking plans. (08/88 – 06/91)

Freetown Highway; Ministry of Public Works, Government of Liberia; Liberia, West Africa - Project Manager and Resident Engineer for the Freetown Highway, a 50-mile section of 2-lane asphalt paved roadway between Kle, Liberia and the Mano River bridge on the Liberia - Sierra Leone border. During construction, extensive redesigns of the typical section, and the horizontal and vertical alignments were required for maintenance, safety, and regional economic considerations. This project consisted of bidding assistance, bid evaluation, contractor coordination, quantity survey, construction engineering, inspection, material testing, preparation of as-built plans, and contract administration. The work included upgrading existing bridges, installation of drainage structures, and surfacing the realigned highway to a 2-lane typical section including asphalt sealed aggregate shoulders. (08/84 – 07/88)

Water Treatment Facility and Water Distribution System; ID; Careysburg, Liberia - Resident Engineer for the project including a reservoir intake structure, modifications to the dam to increase reservoir capacity, sand filter water treatment system, high service pumps, water mains from the treatment plant to an elevated storage, and water mains and service lines for the distribution system. (06/85 – 10/85)

Grand Forks Sewer Separation Project; City of Grand Forks; Grand Forks, ND - Resident Project Manager for the construction of a sewer separation project in Grand Forks. This project consisted of installation of the piping necessary to collect storm water separate from sanitary wastewater and rehabilitation of the existing combined system as a sanitary sewer. The project was located in the older part of the city. Work items included the installation of a new storm sewer trunk line, manholes and inlets, retrofitting and connecting existing storm water inlets to the new trunk line, rehabilitation of the existing sewer to repair damage and disconnect existing storm water inlets, modifications to the existing lift station, and reconstruction of asphalt street pavement, concrete curbs, and sidewalks. Construction Cost: \$6 million. (06/83 – 08/84)

Craig Station, Unit 3; Colorado-Ute Electric Association, Inc.; Craig, CO - Resident Engineer for this project which included the contract administration, construction engineering, and inspection services for the construction of a 400 MW, fossil fuel-fired steam-electric, central generating station. The project included site work, site utilities, foundation, steel framed and CMU structures, fuel-handling facilities, and all mechanical, electrical, and instrumentation and control systems for the project. Construction Cost: \$500 million. (03/81 – 06/83)

Flue Gas Desulfurization Effluent and Fly Ash Disposal System, Spurlock Power Station; East Kentucky Power Cooperative; Maysville, KY - Resident Engineer for this project which consisted of the contract administration, construction engineering, and inspection services for the construction of this system. The work included a 2 mile railroad spur, a 1,400' railroad bridge spanning a river and a state highway, 2 dams, a flue gas scrubber effluent processing plant, a slip formed fly ash silo, a pneumatic pipeline for the transportation of fly ash, dual pipelines for transportation of scrubber sludge, and various other piping systems. This project also included an earth dam constructed to contain runoff from a landfill that was pumped back to the plant for processing. (10/79 – 03/81)

Spurlock Station Unit 2; East Kentucky Power Cooperative, Inc.; Maysville, KY - Lead Civil Construction Engineer for design outline, detailed design, and construction management services for a 500 MW fossil fuel-fired steam-electric central generating station. Project elements included site work; foundations; railroad spur construction; structures; utilities; and all mechanical, electrical, and instrument and control systems for the completed plant with fuel handling and ash disposal facilities. Construction Cost: \$550 million. (10/78 – 03/81)

Bomi Hills Road; Government of Liberia; Monrovia, Liberia - Resident Engineer for engineering and economic feasibility studies for 38-mile primary highway between Monrovia, Liberia, and Bomi Hills, a community associated with a large iron mining enterprise in northern Liberia. Studies involved comprehensive traffic surveys and projections, field surveys and soils exploration, preliminary design, economic alternatives, user costs and savings, and benefit-cost for the improvements. Project includes comprehensive investigation and recommendations for improvements to three major river bridges. Subsequent assignments included detailed design and construction management services. Construction Cost: \$14.6 million. (01/78 – 09/78)

United Nations Drive; Ministry of Public Works, Government of Liberia; Monrovia, Liberia, West Africa - Resident Engineer for this project which consisted of the contract administration, construction engineering and inspection, quantity surveying, asphaltic pavement mix design, and material testing for the construction of 4 miles of urban roadway. The work included the reconstruction of 2 miles of existing 2-lane road to a 6-lane divided roadway with a storm sewer system, a raised paved median, curb and gutter, sidewalks, street lighting, signalization, signing and pavement markings, and utility relocations. The project further included the extension of the roadway for 1 mile as a 4-lane section and 1 mile as a 2-lane section. (06/75 – 04/78)

Monrovia Bypass; Ministry of Public Works, Government of Liberia; Monrovia, Liberia, West Africa - Resident Engineer for this project which consisted of the contract administration, construction engineering and inspection, quantity surveying, asphaltic pavement mix design, and material testing for the construction of 4 miles of urban roadway. The work included the reconstruction of a 2-lane dirt roadway to a 2-lane paved section with aggregate shoulders, drainage structures, rehabilitation of 2 bridges, signing and pavement markings, and signalization. The completed project provided a link from the seaport to the trans West Africa highway that bypassed the capital city. (07/74 – 06/75)

Various Roads and Interstate Highways; Wyoming State Highway Department; Sundance, WY - Project Engineer responsible for the highway construction in Crook County, Wyoming from 1970 to 1974 including supervision of nine engineering personnel on various highway and bridge projects. Other duties included contract administration; preliminary and construction surveying; inspection and testing of construction materials and methods; minor design; estimate engineering cost for construction projects; management of monies set up for engineering; recommendations for features to be incorporated into the project design; interpretation of specifications and plans and enforcement of same on construction projects; and documentation and other paper work for monies to be paid to contractors. Construction Cost: \$0.1 to \$4 million. (03/70 – 07/74)

Various Roads and Interstate Highways; Wyoming State Highway Department; Wheatland, WY - Highway Engineer for construction on various road, bridge, rest area, and mountain building projects in Platte County, Wyoming from 1965 to 1970. Responsibilities includes surveying, inspection and testing, construction inspection, and contract administration. Construction Cost: \$0.1 to \$4 million. (06/65 – 03/70)