

**W. Carver Grant & Co. Ltd.** is an established consulting Civil Engineering, Surveying and Architectural firm in Grand Bahama. The founder, W. Carver Grant was a Civil Engineer and Land Surveyor with over 46 years of experience working throughout the Bahamas. He has worked in the capacity as Registered Land Surveyor, Government Engineer and Consulting Civil Engineer and provided real estate valuations until his death in 2018.

W. Carver Grant & Co. Ltd. has provided institutional, municipal, industrial, commercial, and residential consulting services principally to communities in the Northern Bahamas. The knowledge, experience, and professionalism which W. Carver Grant & Co. Ltd. brings to any project team are invaluable. Being an integral part of the Grand Bahama technical community, we have worked on a variety projects and are well suited to interpret the myriad of local influences which impact upon the project.

W. Carver Grant & Co. Ltd. provides consulting Civil, Geotechnical and Structural Engineering along with Land Surveying and Quantity Surveying to Grand Bahama and the entire Bahamas. While engineering and surveying are our primary focus we standardly provide Project Management and construction advisory services to builders and developers.

We have established a solid history of providing functional and locally constructable solutions to the unique technical problems that our island environments pose. We have provided more than four decades of uninterrupted engineering service to Freeport, more specifically “the Port Area”, and have a well established relationship with local utilities, contractors, builders, material suppliers, banks and financial institutions, and the building officials of the Grand Bahama Port Authority. Our capacity to translate your ideas through design into a constructed environment is the principal service we provide to our clients.



## **WENDELL C. GRANT II, PE**

*Principal*

### **EDUCATION**

- 1987-1990      **Howard University, Washington, DC,**  
*B. Sc. Civil Engineering*
- 1984-1987      **Barry University, Miami, FL.**  
*Concentration Math*

### **PROFESSIONAL HISTORY**

- 1994 to Present      **W. Carver Grant & Co. Ltd,**  
*Freeport, Bahamas, Associate*
- 1988 to 1994      **Thomas L. Brown Associates, P. C**  
*Washington, DC; Senior Staff Engineer*

### **REGISTRATION & AFFILIATION**

Professional Engineer, No. 10024, Bahamas  
Professional Engineer, No. 10250, Washington, DC  
American Society of Civil Engineers, Member  
American Concrete Association, Member  
American Water Works Association, Member  
Washington Area Council of Engineering Laboratories (WACEL) certified....  
....Soil & Concrete Inspector  
Certified Scuba Diver, NAUI

### **REPRESENTATIVE EXPERIENCE**

Mr. Grant has had a broad exposure to surveying and Civil Engineering project design, construction management, construction inspection, and contract administration.

During his tenure with Thomas L. Brown Associates P.C., Mr. Grant was responsible for the coordination of site investigations and soil laboratory testing programs, observing and documenting field installations of various in-situ instrumentation packages and assisting with the monitoring and interpretation of results. Mr. Grant has experience in many areas of Geotechnical and Geo-Environmental engineering projects.

Outside of traditional consulting Civil Engineering Mr. Grant has participated in subsurface instrumentation and monitoring, construction inspection and supervision, forensic investigations, and groundwater modeling on subway, pipeline, slope stabilization, and landfills. Mr. Grant has also provided Geotechnical design input on taxiway, apron, and holding ramps for terminal expansion at the Dulles International Airport in Chantilly, Virginia and taxiway rehabilitation at Regan National Airport in Washington, DC.

Most recently Mr. Grant has contributed to construction inspection and valuations conducted by the firm for local financial institutions. He has surveyed and designed pavement structures for a

local chemical plant utilizing materials custom tailored to the chemical industry. Mr. Grant was also responsible for preliminary cost estimates for that project. He has most recently spearheaded the Quality Control program for concrete inspection of the Freeport Power Companies 10 Mega Watt Diesel Electric Generator and provided Structural Engineer of Record services for their West Sunrise Plant 50 Mega Watt Generating Station.

Mr. Grant was most recently engaged as Project Manager for the Government of the Bahamas for the \$80 million dollar Airport Gateway Highway project, New West Bay Street and Corridor 7 (Baha Mar Boulevard) construction in New Providence. He has recently completed the design and construction oversight of a 300-foot steel sheet piled commercial dock with salt water fire water pump intake station for the Statoil South Riding Point Terminal that was failing due to subsidence and cavity formation.

Mr. Grant has provided Geotechnical consulting to the Ministry of Housing in their Adelaide Gardens Subdivision where he investigated, explored and provided recommendations for settlement and subsidence observations. Likewise, similar investigations were provided in Pride Estates II subdivision and Tall Pines subdivision in Grand Bahama. Mr. Grant has also provided subsurface investigation for the recently constructed Royal Bank of Canada/ Royal Star Assurance Insurance Co.'s building on JF Kennedy Drive in New Providence.

Mr. Grant has conducted subsurface and pavement evaluations of West End Grand Bahama, North Eleuthera, Governor's Harbour, Moss Town International Airport. Has conducted several investigations for solar collector arrays and communication towers. He has also provided guidance on numerous building projects including subsurface investigation, sample testing, reporting with recommendation and construction guidance.

Mr. Grant's knowledge of locally available construction resources, materials, overseas purchasing and project management is centered around Civil/Structural/Geotechnical Engineering and Land Surveying and Quantity Surveys





## Notable Projects

W. Carver Grant & Co. Ltd. Is a Civil Engineering consultancy with over three decades of advisory, design and project management service provision throughout the islands of The Bahamas. Our experience-based is centered around Civil/Structural/Geotechnical Engineering and Land Surveying. We have both the ability to mobilize and commence service provision rapidly along with reporting.

We have most recently led a team of skilled engineers to manage the technical and contract administration for the following projects:

- **Airport Gateway Project** – Responsible for the leadership of a team of Engineers; have direct oversight of all aspects of highway design, utility design, material approvals, contract administration, construction inspections, testing, approvals, public awareness, traffic management, financial analysis and mediating disputes, and handover of 7.2 miles of dual carriage highway construction with seven (7) traffic circles, drainage, signage, pavement markers & lighting, utility installations included 24" water transmission line, 32KV high voltage power transmission line, fiber optic cable and telephone trunk line. Infrastructure was installed while keeping the thoroughfare. The Project entailed bridging cultural and language gaps; working with non-Bahamian, non-English speaking general contractor

- a. **New West Bay Street** – The re-routing of West Bay Street to facilitate the construction of the Baha Mar Resort. This scope included new roadway construction with five (5) traffic circles, the re-routing and expansion of:

Water (Potable & Re-use)  
Sewer  
Power

**Project: New West Bay Street**  
**Role: Project Manager/Employer’s Representation**  
**Dates: March 2011 – November 2012**  
**Contract Value: \$22 Million**

Communication (Cable, Phone, Private Data Line)  
Drainage

Furthermore, we were tasked with the coordination of environmental concerns and execution of mitigation schemes. This scope was accomplished while the roadway remained operational.

**Project: Airport Gateway Project**  
**Role: Project Manager/Employer’s Representation**  
**Dates: March 2011 – September 2013**  
**Contract Value: \$76 Million**

- b. **Corridor 7 Extension (Baha Mar Boulevard)** – The construction of a new dual-carriage way with two (2) traffic circles. The provision of the same utilities as the New West Bay Street Project. This project required the coordination of removing a portion of Skyline Drive necessitating the Statutory Notices and Submissions to augment public Rights-of-Way.

**Project: New West Bay Street**  
**Role: Project Manager/Employer’s Representation**  
**Dates: March 2011 – November 2011**  
**Contract Value: \$34 Million**



The previously listed projects required the project team to provide:-

- 1) Design review and advisory of all elements of work against the project design requirements.
- 2) Review of contractor (Sub-contractor) competencies and ability (Technical, Financial, Legal) to be engage to perform the intended works.
- 3) Contract administration upon the selection of contractor
- 4) Construction oversight and monitoring including reviews of material submittal, technical clarifications (RFI), value engineering proposals, claims and disputes, traffic management plans, staging and storage, environmental concerns and handover;
- 5) Financial management including review and analysis of pavement certificate, variation analysis and management, measurement and valuation and reporting;
- 6) Coordination of 'As-built' documentation, including:-
  - a. Equipment management
  - b. Operational manual
  - c. Maintenance manual
  - d. As-built drawings
  - e. Testing reports
  - f. Commissioning reporting

## Testing Services

### Concrete Testing

Concrete	C173
Air content roller meter	C39
Cylinder compressive test slump	C143
molding concrete cylinder	C39
Unit weight	C138

### Geotechnical Test

Visual Identification	D2488
Moisture Content Determination	D2216
Specific Gravity	D854 & D5550
Atterberg Limits	D4318
Unconfined compression UC	D2938 & D2166
Point Load Strength	D5731
Direct Shear	D5607
Particle Size Analysis	D422
Proctor	D698
Modified Proctor	D1557
Ph of Soil	D4972
Wash Sieve	D1140
Hydrometer	D1140
Standard Penetration Testing	D1586
Rock Core Sampling	D2113

## Concrete Mix Designs & Verification

