



Risk and Design Consulting

## RISK AND DESIGN CONSULTING CAPABILITY STATEMENT

### CORPORATE DATA

Risk and Design Consulting

#### HEADQUARTERED

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[www.rdc-usa.com](http://www.rdc-usa.com)

Licensed in the following countries

United States: Florida, Puerto Rico,  
Montana, Texas.

Canada: Ontario PEO

Colombia, South America.

Colombia Partner Office:

Cra 43A #7-50, Ofic. 1302, Medellín,  
Antioquia, Colombia.

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DUNS: 080372119

CAGE: 7WYF2

EIN: 47-000358

We accept Credit Cards

NAICS CODES:

541310 Architectural Services

541330 Engineering Services

541340 Drafting Services

541350 Building Inspection Services

541410 Interior Design Services

541490 Other Specialized Design Services

### CORE COMPETENCES

Headquartered in Miami, Florida, RISK AND DESIGN CONSULTING counts with satellite offices in San Juan, P.R; and Medellin; Colombia. Our principal and lead engineers and architects have over 100 years of combined experience in all phases of the design process, in a vast array of projects in the United States, Canada and Latin America. We have participated in diverse projects that vary in scale and complexity from single family homes to infrastructure projects to hi-rises. We engineer cost effective solutions and recognize that the growth of our company shall be based on long term relationships with our clients.

#### Design

- A/E Design – Interior Design
- Engineering Design
- Civil – Water Management
- 3D Modeling-Scanning
- Drafting

#### Program/Project Management

- ADA Accessibility Analysis
- Cost Estimation
- Construction Administration
- Specification Development

#### Special Inspections

- Structural layouts
- Grouted masonry inspections
- Post-tensioned structures
- Rebar layout inspections
- Concrete pour inspections
- Plated truss roof inspections
- Glass and Glazing



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### **Forensic Engineering Services**

- Structural damage investigations
- Concrete cracking and distress
- Floor deflections, and cracking
- Construction defects
- Structural plans review
- Water intrusion
- Hurricane / Earthquake / Flood damages

### **Vibrations**

- In-situ measurement of vibrations
- Analysis of vibrations from any source
- Control and mitigation of vibrations
- Assessment of human perception and effects on structures

## **DIFERENTIATORS**

### **Commitment to our Clients**

- We act in the best interests of our clients to provide in the most cost effective and time solutions.
- Our willingness to accept full responsibility for our performance, guarantees our clients the best possible results in cost and quality.

### **International Educationalist**

- We have provided training to structural engineering associations, private companies, academic institutions and chambers of construction in several countries in America, Africa and Asia.
- Our team has acted as international consultant on buildings and facilities projects.

### **Human Resource team**

- RDC counts with a concurrent, project-based force of one architect, two lead engineers, three scientific (Ph.D.) consultants, two drafters, and the

administration team. Our project-based consultants include Ph.D's with specializations in risk analysis, seismic vulnerability, wave propagation, soil-structure interaction, and computational fluid dynamics (CFD).

## **PERFORMANCE Hotels and Hospitals**

- **Structural Engineering of Grand Roatan Resort, West Bay, Roatan, The Caribbean.**  
Structural design services for the main building of an Ultra-Luxury Hotel in the Caribbean, rooms with private pools and spas, lobby, and, skybar with total area 10,500 sq.m. Total construction cost: approx. \$12 million.
- **Structural Engineering of St. Regis Hotel and Condominiums, Bal Harbor, Florida, USA\*.**  
Our principal engineer project managed the structural design for this project when working for a local company. The complex consists of three twenty-six story buildings, two towers of condominiums and one tower as Luxury Hotel, with a recreational deck of 11,000 sq.m. Total construction cost: approx. \$650 million.
- **Structural Engineering of Trump Hollywood, Hollywood, Florida, USA\*.**  
The structure consisted of a 36-story Hotel-Condominium tower and a parking garage. Our lead engineers project managed the structural design of the complex. Total construction cost: approx. \$120 million.



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- **Lateral Engineering Design of Trump Sunny Isles, Sunny Isles, Florida, USA\*.**

The structure consisted of a three 55-story Hotel-Condominium tower. One of our lead engineers supervised the design of the lateral resisting system of these high-rises. Total construction cost: approx. \$300 million.

- **Structural Engineering Retrofitting of the Fontainebleau Hotel, Miami Beach Florida, USA\*.**

Dr. Montoya project managed the structural assessment and design of the retrofitting for this project when working for a local company. The design included strengthening of several areas of the Hotel that were converted to Ballrooms and Total construction cost: approx. \$5 million.

- **Structural Engineering of the William Osler Hospital, Brampton, Ontario, Canada\*\*.**

Dr. Montoya participated in the structural design of the 60,000 sq.m inpatient building of this complex, which won the 2006 prize for best construction project in Canada. The design included the foundation, seismic resistant system and reinforced concrete slabs of the structure. Total construction cost: approx. \$60 million.

- **Structural Engineering Peer Review of Panama Hospital, Panama.**

Retained by an structural company in Peru, RDC provided consulting services for the peer review of all the post-

tensioned slabs of this 50,000 sq.m Hospital to be built in the City of Panama, Panama.

- **Structural Engineering and CM of Neolife Clinic, Asuncion, Paraguay**  
Structural Design of the clinic of 1,800 sq.m for in-vitro and neonatal care facility. Construction management and owner's representation were also provided. Total construction costs aprox \$ 1.8 million USD

- **Structural Engineering of MRI expansion, Tesai Hospital, Ciudad del Este, Paraguay**

Structural Design of the Hospital's cancer unit expansion of ~1,000 sq.m consisting of new MRI examination rooms, the project consisted of the structural design and detailed long-term serviceability study of the new structure.

<b>PERFORMANCE Telecommunications</b>
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- **Vulnerability study and Structural retrofitting for Telxius USA**  
Engineering consulting for two of the largest submarine cable stations in the US, located in San Juan, Puerto Rico., and Boca Raton, Florida. After hurricanes Irma and Maria, the owner wants to upgrade these stations to comply with current codes for building category IV (post-disaster), to maintain services after a large event. Project cost: \$1.1 Million USD



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## PERFORMANCE Transportation / Airports

- **Structural Lead Engineer for Cable Metro Line P, Medellin, Colombia**  
We are working as structural lead designer for four passenger stations of the Metro Aerial Cable Line P, in the City of Medellin, Colombia. Leading 8 engineers from the construction engineering company Nabla Engineers as structural EOR for the stations. Total construction cost: approx. \$53 million USD.
- **Structural Lead Engineer for MegaCable, Pereira, Colombia**  
We are working as structural lead designer for Nabla Engineers, of four passenger stations and the foundation design of all pylons for the Metro Aerial Cable “MegaCable”, in the City of Pereira, Colombia. Total construction cost: approx. \$35 million USD.
- **Structural Engineering of Terminal 3, Pearson Airport, Toronto, Canada\*\***  
Dr. Montoya was the structural designer of the arrivals and departures sections of this airport terminal when working for MMM in Canada (now WSP).
- **Structural Engineering of Quito International Airport, Quito, Ecuador\*\***  
Dr. Montoya implemented the protocol for the seismic study and design of the air control tower and main passenger terminal and participated in the design of the terminal structure when working for MMM in Canada (now WSP).

- **Structural Engineering of the expansion of Silvio Pettrossi Airport, Asuncion, Paraguay**  
Structural design of the main passenger bridge connecting national and international gates. Design of airside passenger ramps, and the design of the commercial land-side expansion.

## PERFORMANCE Assessments

- **Inspection and maintenance plan for The Congress Group (Boston, USA)**  
A 325,000 square feet (30,000 sq.m) garage in Doral, Florida; abandoned during the last great recession, was inspected and a plan to re-establish serviceability was developed for the owner.
- **ASTM E2018-15 Property Condition Assessment of The Galiano Building, Coral Gables, Florida, USA.**  
A Property Condition Assessment (PCA) was conducted on the premises of the building in reference as a request from the owner. The PCA included the structural framing, building envelop, ingress and egress pathways and roofing. The base condition followed the guidelines of standard ASTM E2018-15.
- **Recertification of Miami-Dade County Department of Public Works Facilities, Miami, FI, USA.**  
As part of the Miami-Dade ordinance on evaluation of the condition of its assets, a structural / electrical recertification



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assessment of the 60-year-old buildings in the reference was conducted. The buildings consisted of main offices for the bridge and canal divisions, and ancillary structures for shops and maintenance.

Notes: Projects managed or developed by the companies below, our engineers were employees of those firms.

\* CHM Consulting Engineers

\*\* Marshal Macklin Monaghan