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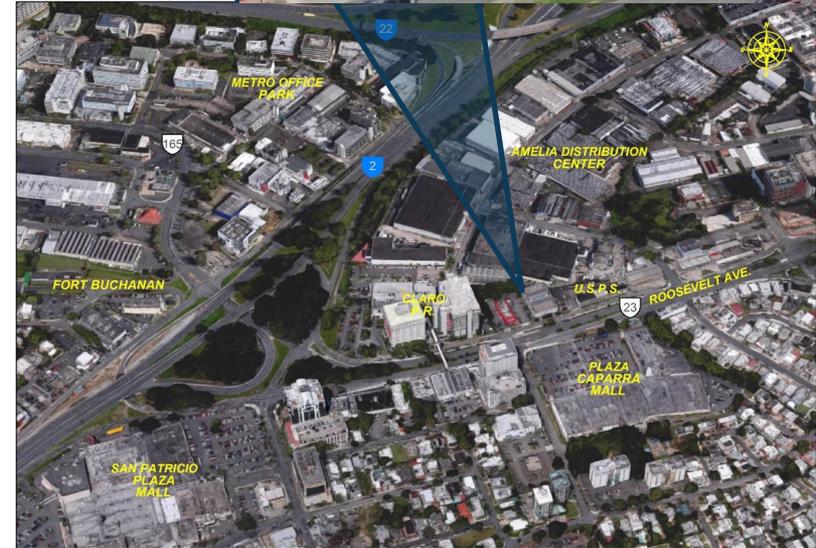


About Us

The Firm **CMA Architects & Engineers LLC**, founded in Puerto Rico in 1959, is a full service multi-disciplinary firm. Today, CMA continues to be one of the largest firms on the Island operating from its 30,000 sq.ft. office building in Guaynabo, Puerto Rico and growing into the US market with an office in Miami.

Experience With **over 55 years** of continuous consulting practice in the fields of architecture and engineering, CMA offers comprehensive assistance from Planning and Design Development, Start-up, Field Observation and Construction Management. The firm is Minority Business Enterprise, and is proud member of the U.S. Green Building Council.

Staff CMA staff encompasses **over 90 professionals** in the fields of architecture, planning, civil, transportation, water resources, environmental and electrical engineering, as well as cost estimate and construction management.



CMA Office Building
Guaynabo, Puerto Rico

Leadership

JORDI BOFILL, P.E.

Managing Partner
Professional Societies: CIAPR, AAEE, AIDIS,
ASCE, AWWA, WEF,
Diplomate American Academy of Environmental
Engineers,
Past President, Puerto Rico Chapter of WPCF and AWWA.
Past Member, WPCF Board of Control (1985-1988)

JOSE A. CARRO, P.E.

Partner
Transportation Engineering
Professional Societies: CIAPR, ASCE, ITE, T&DI, TRB, SAME,
ACI, PCI
Past President ASCE Puerto Rico Chapter

JORGE TIRADO, P.E.

Partner
Civil Engineering
Professional Societies: CIAPR, ASCE

ARIEL R. VERA BEVERAGGI, AIA, NCARB, CDT, LEED AP

Partner
Architecture
Professional Societies: AIA, CAAPPR, NCARB, CSI, USGBC

RICARDO A. HERRERA, P.E.

Partner
Structural Engineering and CADD Services
Professional Societies: CIAPR, ACI, ASCE

ALVIN M. RODRIGUEZ, P.E.

Partner
Structural Engineering
Professional Societies: CIAPR, ASCE, ACI,
Earthquake Engineering Research Institute, Seismological
Society Of America

GERALDO E. JUSINO-ARROYO, P.E., CDT, LEED AP

Associate
Project & Construction Management
Professional Societies: CIAPR, CSI, USGBC, ASTM, ACI,
AWS, DHI, FBPE, ICRI, NRCA

SUZ ANN ARROYO, P.E., LEED AP, HFDP

Partner
Mechanical Engineering
Professional Societies: CIAPR, ASHRAE

LUIS MERLE, P.E.

Partner
Mechanical Engineering
Professional Societies: CIAPR, ASHRAE, ISPE, NFPA, ICC

ABRAHAM SANCHEZ, P.E.

Partner
Electrical Engineer
Professional Societies: CIAPR, IEEE, SIE

FRANCISCO VALENTÍN, P.E.

Partner
Electrical Engineer
Professional Societies: CIAPR

JOSE TORRES, P.E.

Partner
Sciences and Environmental Engineering
Professional Societies: CIAPR, AIDIS

PEDRO JANER, P.E., REM, LEED-GA

Partner
Sciences & Environmental Engineering
Professional Societies: CIAPR, AIDIS, INCE, IECA, SWANA,
NREP, USGBC, WEF

RAFAEL E. BULERIN-ROSARIO, P.E., MEM, CDT, PMP

Associate
Project & Construction Management
Professional Societies: CIAPR, PMI, ASTM, ASCE, ACI

CARLOS A. MEDINA ALAMEDA, P.E.

Associate
Civil Engineering
Professional Societies: CIAPR

JUAN BOLIVAR FUENTES, PH.D., P.E.

Associate
Structural Engineering
Professional Societies: CIAPR

RICARDO X. TORRES, P.E., MECE, CDT, LEED AP

Associate
Project & Construction Management
Professional Societies: CIAPR, CSI

JOSE O. COLON VELEZ, P.E.

Associate
Transportation Engineering
Professional Societies: CIAPR, ASCE

Administration

JORGE W. TROCHE, MBA, PHR

Administration & Human Resources Director
Certified Professional in Human Resources
SHRM - National & PR Chapter

JOSECIR CABALLERO

Accounting Director

JUAN L. CABRERA

IT Director



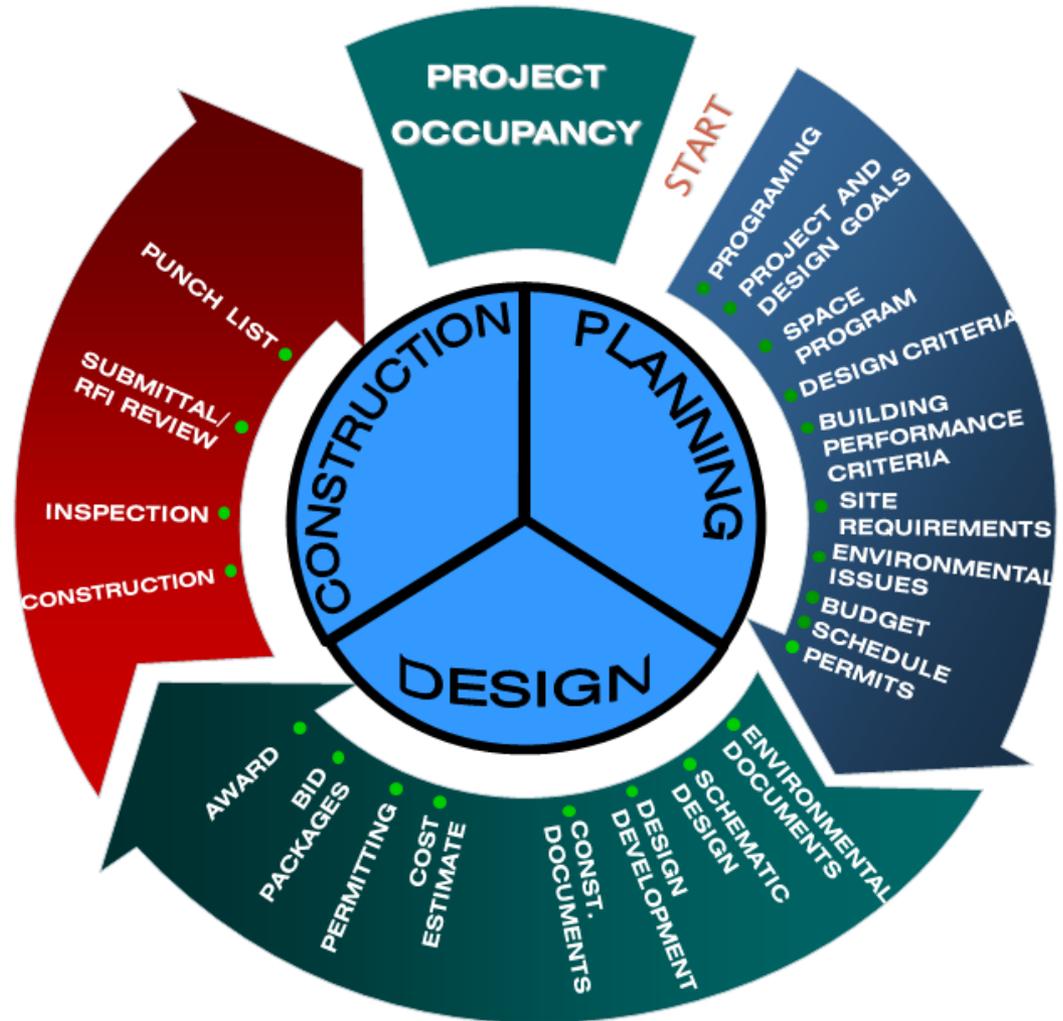
Services

*Your one-stop shop for design, permitting,
construction management and project administration services*

Services

CMA Architects and Engineers LLC provides services for all the project stages:

- Planning
- Design
- Construction



Services

- Land Use Planning & Community Development
- Environmental Assessments and Permitting
- Feasibility and Site Selection Studies
- Project Permitting at Commonwealth / Federal Agencies
- Architecture and Interior Design
- Site Planning and Design
- Master Planning
- Electrical, Mechanical, Structural, Civil, Water Resources, Instrumentation and Process Engineering
- Project and Construction Management
- Observation and other Field Services during Construction
- Cost Estimates and Value Engineering
- Contract Documents and Specifications
- Owner's Representative Roles
- Green Building Design and Certification Assistance





Architectural Services

- Building and Facility Design
- Space Planning
- Master Planning
- People & Material Flow Diagrams
- Code Compliance Assessment
- Life Safety Studies
- Interior Design
- Remodeling
- Restorations
- Presentations
- 3D Modeling



Civil Engineering

- Site Master Planning & Design
- Infrastructure Master Planning & Design
- Hydrologic & Hydraulic Studies
- River/Stream Corridor Improvements
- Flood Control Structures
- Storm Water management
- Erosion & Sedimentation Control
- Scour Analysis
- Existing Infrastructure Analysis
- Marina Master Plan and Design
- Pump Stations
- Soil Rehabilitation



Transportation

- Highway Route Planning
- Highway & Street Design
- Highway & Pedestrian Bridge Design
- Multi-modal Studies
- Traffic Impact Studies
- Access Studies
- Parking Studies





Structural Engineering

- Structural Steel Design
- Reinforced Concrete, precast and post-tensioned Design
- Masonry and wood
- Stainless Steel, Aluminum & Fiberglass
- Structural Evaluations & Studies
- Seismic & Wind Evaluations
- Damage and Performance
- Seismic Retrofit
- Support of Excavations



Mechanical Engineering

- HVAC
- Plumbing
- Piping & Process Piping
- Fire Protection
- Controlled Environments
- Potent Compound Environments
- Pumping Stations
- Fuel Oil System
- Controls
- Energy Conservation
- Cleanrooms
- Building Assessments



Electrical Engineering

- High/Low Voltage transmission and Distribution
- Substation and Switchyards
- Protection Coordination
- Distributed Power Generation
- Fault Analysis, Arc Flash Studies
- Renewable Energy
- Lighting & Controls
- Grounding & Lightning protection
- Industrial Control & Instrumentation
- Communications and Data Infrastructure
- Security Systems
- Fire Alarm Systems
- Building Management Systems
- Cogeneration Plants



Environmental

- Flora & Fauna Studies
- Soil Remediation Studies
- Noise Level Studies
- LBP & ACM Studies
- Wetlands Delineation
- Tree Inventory & Reforestation Plans
- Environmental Site Assessment (Phase I, II & III)
- SPCC & SWPP Plans
- Water Treatment & Distribution Design
- Wastewater Collection & Treatment Design

Permitting



- Environmental Impact Assessment
- Land Use Consultations
- Air Emissions
- Solid Waste
- Earth Extraction
- Tree Pruning, Cutting and Removal
- Wastewater and Storm Water NPDES
- US Army Corps of engineers Joint Permit
- Construction
- Urbanization
- Use Permits
- SHPO & ICP Consultations
- Federal Endorsements



Project & Construction Management

- Project, Program & Construction Management
- Inspections
- Field Observation
- Bid Administration & Analysis
- Cost Estimate
- Scheduling
- Owner Representative
- Pre-Construction Services
- Document Control
- Environmental & Safety Compliance

Sustainability



With 8 **LEED Certified Professionals** on our staff, and CMA's membership in the U.S. Green Building Council, we are able to provide our Clients with the alternatives that best suit the LEED Certification level pursued.

Some projects that have achieved LEED Certification are:



LEED Gold. Environmental Protection Agency Region 2
City View Plaza, Guaynabo PR



LEED Silver. Internal Revenue Services
City View Plaza, Guaynabo PR



LEED Certified. Department of Veteran Affairs
El Nuevo Día Annex Building, Guaynabo PR



LEED Silver. US Customs and Border Protection
City View Plaza, Guaynabo PR



Expertise

- High/Low-rise Residential; including urban, suburban and resort style residences
- High/Low-rise Office Buildings and Complexes
- Commercial, including shopping malls, retail and services
- Manufacturing & Industrial
- Hospitality
- Healthcare Facilities
- Education and Institutional
- Airports
- Warehouses
- Surface Parking and Structures
- Infrastructure such as potable and waste water, transportation
- Maritime
- Power Distribution
- Cleanrooms



Microsoft

Honeywell

UNIVERSIDAD DE PUERTO RICO
UPR

AMGEN

MAP
MUSEO DE ARTE DE PONCE
FUNDACION LUIS A FERRE

CITRIX®

Abbott
A Promise for Life

Baxter

Linde

Puerto Rico
Science, Technology
& Research Trust

INTERLINK
GROUP



USC
UNIVERSIDAD DEL
SAGRADO CORAZÓN

MANDARIN ORIENTAL
THE HOTEL GROUP

COSTA
CARIBE

ABB

Zimmer

jcp

Johnson & Johnson



PEPSICO

Office
DEPOT



BANCO
POPULAR

EL NUEVO
Jia
elnuevodia.com



COMPANIA TRES RIOS

PRPharmaceuticals, Inc.
A Part of AstraZeneca PLC

Lilly

K
LABOR

Romark
Laboratories, L.C.

JANSSEN ORTHO LLC

SOGRANDE
AT CAP CANA



CERVECERA
DE PUERTO RICO

Tishman
Hotel
Corporation

DU PONT

CEMEX



JW MARRIOTT.
HOTELS & RESORTS

Pfizer

THE RITZ-CARLTON®

abbvie

Clients

United States Government Entities

- Federal Drug Administration (FDA)
- Federal Emergency Management Agency (FEMA)
- General Services Administration (GSA)
- United States Army
- United States Army Corps of Engineers (USACE)
- United States Coast Guard
- United States Navy
- Postal Service (USPS)
- Veterans Administration (VA)

Puerto Rico Government Entities

- Administration For The Financing Of Infrastructure (PRIFA)
- Aqueduct & Sewer Authority (PRASA)
- Department of Transportation & Public Works (DTPW)
- Electric Power Authority (PREPA)
- Government Development Bank for Puerto Rico (GDB)
- Health Department (PRHD)
- Highway and Transportation Authority (PRHTA)
- Housing Finance Authority (PRHFA)
- Industrial Development Company (PRIDCO)
- Institute of Puerto Rican Culture (ICP for its initials in Spanish)
- Metropolitan Bus Authority (AMA for its initials in Spanish)
- Municipalities (Aguadilla, Bayamón, Caguas, Carolina, Mayagüez)
- National Guard (PRNG)
- Ports Authority (PRPA)
- Public Buildings Authority (AEP for its initials in Spanish)
- Solid Waste Authority (ADS for its initials in Spanish)



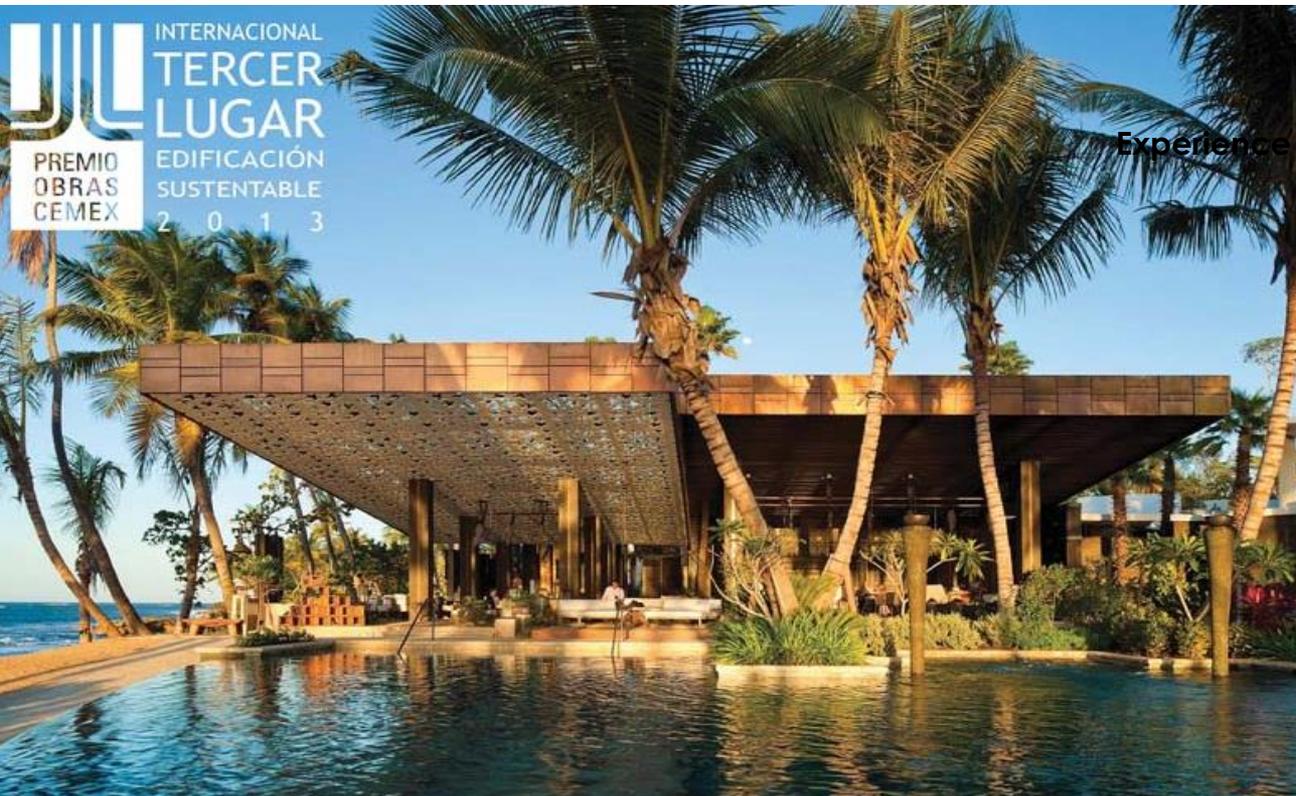
US Army Corps of Engineers®





Recognitions

*Excellence through value services and
commitment to our clients*



Experience

CEMEX International Design competition

CMA formed part of a team that won third place at CEMEX International competition in the Sustainability category.

Project:
Dorado Ritz Carlton Reserve

BUILDING AWARD



<http://www.cemex.com/MediaCenter/BuildingAwardInternational.aspx>



*CEMEX International
Design competition*

CMA formed part of a team that won second place at CEMEX International competition in the Infrastructure category.

Project:
Palmas Del Mar Yacht Club

BUILDING AWARD





CIAPR Award

CMA was awarded a recognition from the College of Engineers and Surveyors of PR (CIAPR) for Outstanding Civil Engineering Project for the design of City view Plaza Office Complex.

CMA has been the principal architectural and engineering firm of City View Plaza, a mixed use office and commercial project.

Project:
City View Plaza Office Complex

BUILDING AWARD



CMA
ARCHITECTS &
ENGINEERS LLC



CIAPR Award

CMA was awarded a recognition by the College of Engineers and Surveyors of PR (CIAPR) for Outstanding Civil Engineering Project for the design of the San Antonio Bridge.

CMA interacted closely with PRHTA's staff during the planning, design and construction process. Special attention was given to the finishing details, providing balconies and luminaries in harmony with the environment and natural resources around the area.

Project:
San Antonio Bridge





*PR Realtor Association
Award*

CMA was awarded a recognition by the PR Realtor Association in the category of Environmentally Sustainable Development Project.

CMA, as the lead architectural and engineering firm, provided a full range of services from environmental, planning and land development work to the site and off-site infrastructure.

Project:
Los Prados Development





Full Architectural and Engineering Services under one roof...