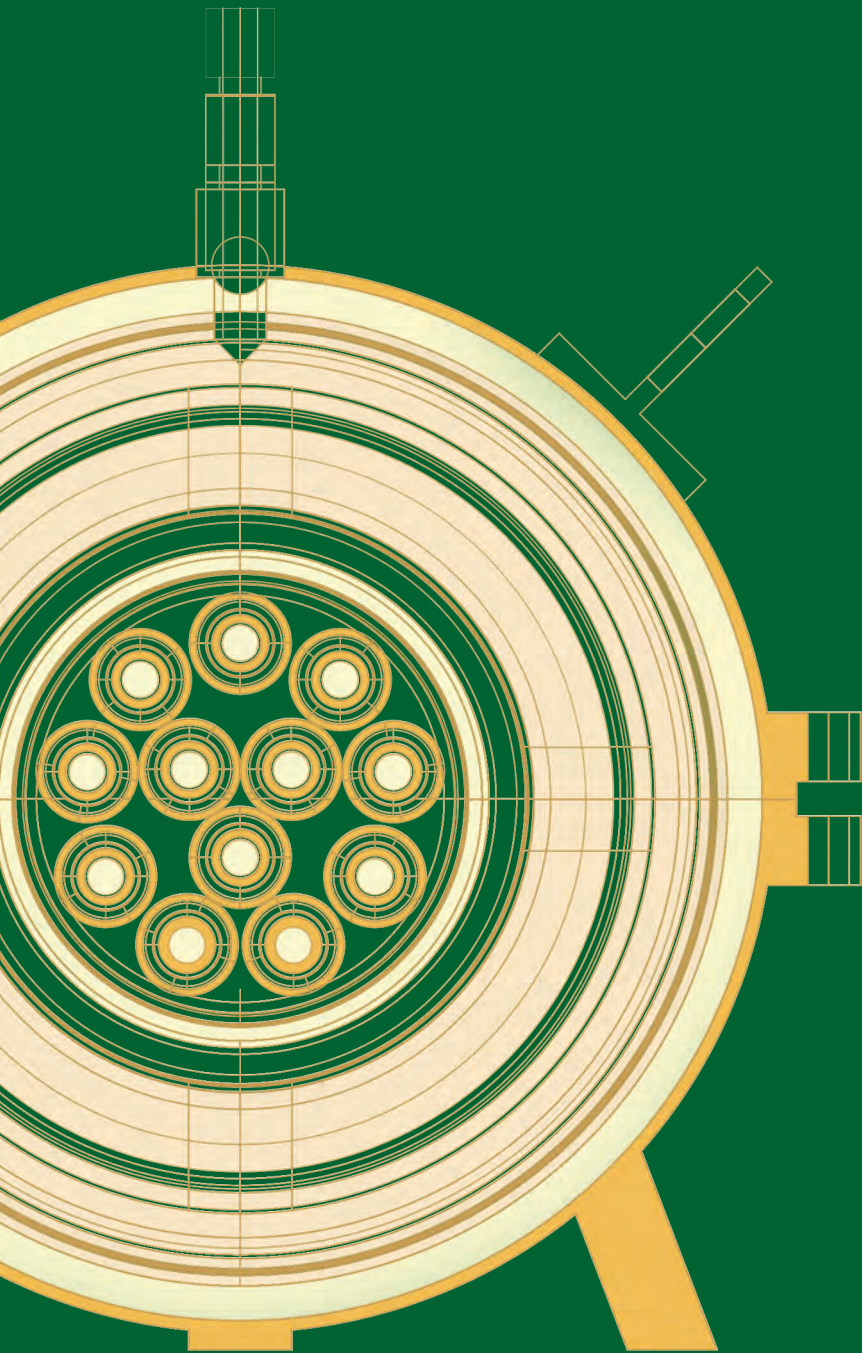


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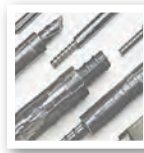
Art & Engineering
in Bridges





Structural Design

Prestressed Concrete, Concrete-Steel Composites Bridges. Buildings, Silos & Tanks. Value and Construction Engineering.



Rebar Splicing

With cold-swaged Couplers, #4 to #18 rebar sizes.

DEL



Post-tensioning

Multistrand with tendon capacities up to 10 000 KN. Monostrand, Bar, flat Multistrand.

DEL



Ground Anchors

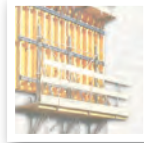
Bar & Strand. Temporary & Permanent. Self-drilling & traditional.

DEL



Stay & Suspension Cables **DEL** for Bridges, Domes & Roofs

With bare, galvanized, polyester and epoxy coated Strand.



Climbing Forms

Manual & Automatic.

doka



Incrementally Launched Bridges

Engineering & Systems.

DEL



Preformed Seals

For concrete Slabs.



Form Travelers

For Balanced Cantilever Bridges.

DEL



Expansion Joints

Modular, Transflex, & Asphaltic.



Advancing Shoring

For Bridge in-situ Construction.

DEL



Bridge Bearings

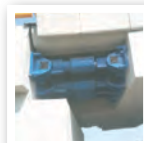
Pot, Spherical & Elastomeric Pads.



Beam & Segments Launchers

Hydraulic-Electrically operated.

DEL



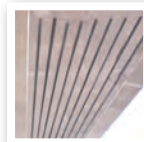
Seismic Protection Devices

Shock Transmission Units. Dampers for Bridges & Stays.



Precast-Prestressed Beams

DEL



Carbon Fibers

FYFE

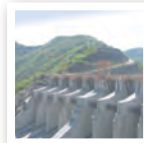
Engineering & Installation.



Jacking Systems

Lifting, Lowering, Shifting, Pile driving, Pipe Jacking.

DEL



Structure repair & upgrade

With listed Techniques.



Moveable Bridges

Engineering & Systems.


















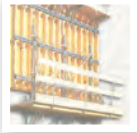



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3. Structural Design

Project	Constructor/Owner	Location	Year
Different Structures on the Hwy.	CAPUFE	Cuernavaca-Acapulco Hwy	2015
Rojo & Blanco Bridges	Acciona Infraestructura México, S.A. de C.V.	Puebla	2015
D-9 Freeway interchange	SCT -Dirección General de Carreteras-	Puebla	2014
Altozano Bridge	Altozano el Nuevo Tabasco, S.A. C.V.	Durango	2014
Naucalpan-Toluca Highway access	Autopistas de Vanguardia, S.A. de C.V.	Lerma, Naucalpan	2013
Papagayo Bridge	Grupo Profrezac, S.A. DE C.V.	Acapulco, Guerrero	2013
Vidalta Bridge	Banca Mifel, S.A.	Mexico City	2012
Paso de Piedra Bridge	Construcciones ALDESEM, S.A. de C.V.	Durango-Mazatlán Hwy	2012
Carrera Novena Viaduct	Consortio Internacional Viaducto Carrera Novena	Bucaramanga, Colombia	2012
Bridge # 1 Supervía Poniente	Coordinadora Vía Rápida Poniente SAPI, S.A. de C.V.	Mexico City	2012
Chroma Corporate Building	Inmobiliaria Coruus, S.A. de C.V.	Monterrey, N.L.	2012
Platanito Bridge	Omega Construcciones Industriales, S.A. de C.V.	Durango-Mazatlán Hwy	2011
Atotonilco Viaduct, Hidalgo.	Infraestructura y Saneamiento Atotonilco, S.A. de C.V.	Hidalgo	2011



Carrera Novena Viaduct, Bucaramanga, Colombia



Bridge # 1 Supervía Poniente, Mexico City



Naeko Logistics, Barcelona, España



Vidalta Bridge, Mexico City

3. Structural Design

Project	Constructor/Owner	Location	Year
Del Parque Residential Complex	Inmobiliaria COPRI S A P I DE C.V.	Mexico City	2010
Magnolia y Periférico Bridges	Controladora Vía Rápida Poetas, S.A.P. I. DE C.V.	Mexico City	2010
El Nuevo Bridge	Banco Nacional de Obras y Servicios Públicos, S.n.c. Fid-358	Km 111+040 Tramo Carr. Guadalajara-Colima	2009
Punta De Agua Bridge	Secretaria De Comunicaciones Y Transportes	Manzanillo, Colima Freeway	2008
Galindo y Villa-Fray Bridge, Servando Teresa De Mier-Calle 8 Circuito Interior	Gobierno del Distrito Federal	Mexico City	2008
Ventiscas-Blvd. Temolucu Av.	Gobierno Del Distrito Federal/Secretaria De Obras Publicas/Direccion General De Obras Publicas	Mexico City	2008
URBI Santiago III Bridge	Urbi Construcciones Del Pacifico, S.A. De C.V.	Tonalá, Jalisco	2008
Tres Cimbres Residential Complex	Consortio Inmobiliario Promotor, S.A.CV	Mexico City	2008
Vidalta Bridge	Cia Mexicana De Gerenciamiento, S.C.	Mexico City	2008
Centenario-Av. Luis Cabrera Av.	Consortio Inmobiliario Promotor, S.A.C.V.	Mexico City	2007
Naeko Logistic Warehouse Proyecto Ejecutivo	Losan Mecanica De Suelo, S.A.	Barcelona, España	2007



Tlalpan Footbridge, Mexico City



Papaloapan Bridge, La Tinaja - Cosoleacaque Highway



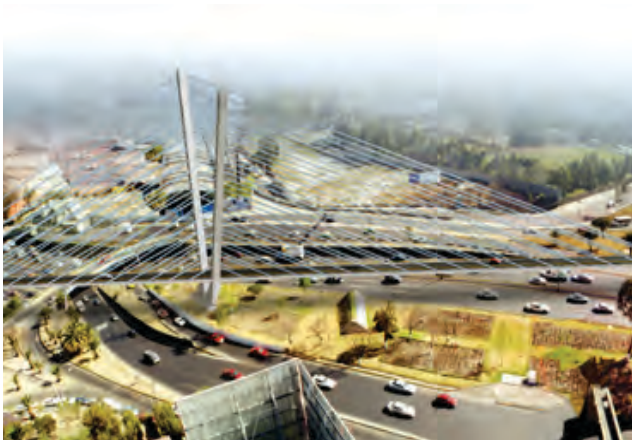
Lomas Country, Bridge, Mexico City



Albatros Bridge, Lázaro Cárdenas, Michoacan

3. Structural Design

Project	Constructor/Owner	Location	Year
Executive Project "Nodo Vial Atotonilco"	Secretaria De Finanzas Del Gobierno Del Estado	Guadalajara-Atotonilco Hway	2007
Gasas de Naciones Unidas Structural Design	ARI Arquitectura, S.A. de C.V.	Ciudad Victoria-Matamoros Hway	2006
El Capulin Interchange Structural Design	ARI Arquitectura, S.A. de C.V.	Jalapa, Veracruz.	2006
Bridges Without names on the Durango-Mazatlán Highway (4 Bridges)	Secretaria de Comunicaciones y Transportes, Dirección General de Carreteras.	Sinaloa.	2006
Mexicali Highway	Omega Construcciones Industriales, S.A. de C.V.	Mexicali-Tijuana Freeway	2005
Papaloapan Bridge	Caminos y Puentes Federales de Ingresos y Servicios Conexos.	La Tinaja-Isla Hway	2005
Pedestrian Bridge on the Mexico-Cuernavaca Highway, "Tlalpan"	La Universidad Nacional Autónoma de México, Facultad de Arquitectura.	Plaza Peaje No. 1 México-Cuernava Hway	2005
Baluarte Bridge	Secretaria de Comunicaciones y Transportes.	Durango.	2005
Bridge without name on the Durango-Mazatlan Highway.	Secretaria de Comunicaciones y Transportes.	Sinaloa.	2005
Albatros Bridge	Administración Portuaria Integral de Lázaro Cárdenas, S.A. de C.V.	Lázaro Cárdenas, Michoacán.	2005



"Toreo" Interchange, Naucalpan, Edo. de México



"Grijalva I" Bridge, Villahermosa, Tabasco



"Guapay" Bridge, Sta. Cruz , Bolivia



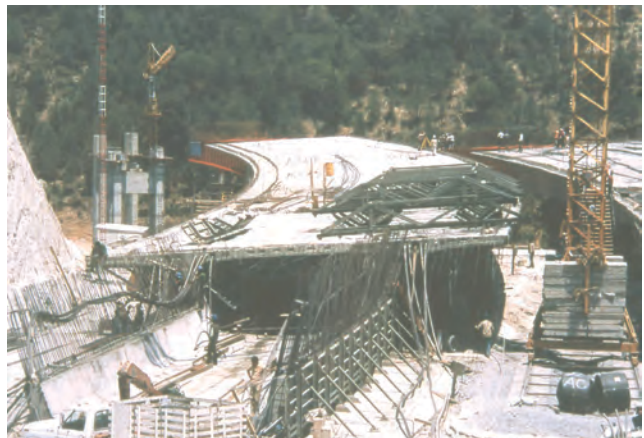
Viaducto Tacagua, Venezuela

3. Structural Design

Project	Constructor/Owner	Location	Year
Structural Design of the construction of 3 Bridges.	Dirección Genera de Planeación y Urbanización. Sec. de Desarrollo Urbano	Chamela- Purificación, Jalisco, Hway	2004
Structural Design of an Arch bridge Km 159+373.	Dirección General de Carreteras Federales S.C.T.	México- Tuxpan Hway	2002
Toreo bridge Structural Design, Cable Stay Bridge with L=126mts. Including necessary field Studies and road design.	Fideicomiso Técnico. Gobierno del Estado de México - H. Ayuntamiento Constitucional de Naucalpan de Juárez.	Naucalpan, Edo. de México	2002
Grijalva I Bridge Structural Design, Cable Stay bridge with L=391mts. Including necessary field Studies and soil mechanics.	Junta Estatal de Caminos CAPUFE. Gov. Del Edo	Villahermosa - Chetumal. Hway	2001
Lomas Country IV Bridge Structural Design, Including necessary field Studies and soil mechanics. Balanced Cantilever. (L = 160 mts.).	ADMICORP, S.A. de C.V.	Huixquilucan, Edo. de México	1998
Guapay Bridge (Structural Design, Including necessary) field Studies and soil mechanics. (L = 1560 mts.)	International Service Group, INC	Santa Cruz, República de Bolivia	1998
Tacagua Viaduct Structural Design, Including necessary field Studies and soil mechanics. Incrementally Launched Bridge. (L = 980 mts.)	AUCOVEN.	Quebrada de Tacagua, Caracas-La Guaira Hway República de Venezuela.	1998



La Marquesa Bridge, Mexico City



Atenquique II Bridge, Guadalajara-Colima Highway



Pensil Tunnel Viaduct, México -Veracruz Railway

3. Structural Design

Project	Constructor/Owner	Location	Year
Corredor Sur, Cd de Panamá. Design of 9 junctions.	Ingenieros Civiles Panamá, S.A.	Panamá.	1997-1998
Río Perales Bridge Detailed Design of beams	Fundaciones, S.A para el M.O.P. República de Panamá.	Provincia de los Santos Panamá.	1997
Gonzalitos- Constitución Bridge Change from prestressed to post-tensioning of 3 spans of (L = 100mts.)	Municipio de Monterrey, Nuevo León.	Monterrey, Nuevo León.	1997
Calle Pino Suárez Bridge.	Municipio de Nuevo Laredo, Tamaulipas.	Nuevo Laredo, Tamaulipas.	1997
Río Mula, Río Chiricagua, Río Platana and Río Lajas Bridges. Detailed beams Design.	Fundaciones, S.A para el M.O.P. República de Panamá.	Ensanche David - Concepción Villalobos-Club de Golf	1996
Calle Venezuela flyover.	Municipio de Nuevo Laredo, Tamaulipas.	Laredo, Tamaulipas.	1996
Río Chiriqui Grande & Río Tribique Bridge. Detailed beams Design.	Mantenimiento Aliado S.A para el M.O.P. República de Panamá.	Camino Fortuna - Chiriqui Grande. Panamá.	1996
Carretera Nacional Flyover. (Rehabilitación).	Dirección General de Carreteras Federales.	Monterrey-Nuevo Laredo Hway	1996
Papaloapan Bridge. Structural Design, Stay Cable bridge (L = 360 mts.)	OPSA de GMD (Concesionaria) D.G.C.F. (Propietario Final).	La Tinaja - Cosoleacaque Hway	1993



Huixquilucan Bridge, Mexico City



Atenquique I, Guadalajara-Colima Highway



Metlac Bridge, México-Veracruz Railway



3. Structural Design

Project	Constructor/Owner	Location	Year
Cartagena Viaduct (Design of 6 Structures, Junctions and Viaducts. (L = 600 mts.))	Obras y Proyectos S.A de C.V.	Atizapán -Venta de Carpio Hwy	1993
Palo Blanco Bridge. Detailed beams Design.	Dillon Construction Inc. para el M.O.P. República de Panamá.	Provincia de David, Panamá.	1993
Aguas Blancas Roads (AASHTO Beam Modif).	Obras Públicas del Municipio de Acapulco, Guerrero.	Acapulco, Guerrero Km. 0+000-Km. 1+850.	1993
Huixquilucan Bridge. Incrementally Launched Bridge. L = 318 m	Cotrem Edo. de México.	Huixquilucan Edo. de México.	1992
Atenquique I (L=320m) & II (L=438 m) Incrementally Launched Bridge.	D.G.C.F.	Guadalajara -Colima Hwy	1989
La Marquesa Bridge Incrementally Launched Bridge. L = 340 m	D.G.C.F.	México-Toluca Hwy	1987
Pensil Viaduct tunnel Balanced Cantilever (Long = 120 mts).	Dirección General de Vías Férreas	México - Veracruz Railway	1986
Badiraguato Bridge.	D.G. Carreteras Federales.	Sinaloa, Culiacán.	1983
Atoyac Bridge. (L = 496 mts.) Incrementally Launched Bridge.	Dirección General de Vías Férreas.	México - Veracruz Railway	1981
Metlac Bridge. (L = 390 mts.) Balanced Cantilever	Dirección General de Vías Férreas.	México - Veracruz Railway	1980



Badiraguato Bridge, Sinaloa, Culiacán.



Paso de Piedra Bridge, Durango-Mazatlán Highway



Zoquitlan Bridge, México - Tuxpan Highway



Atoyac Bridge, México-Veracruz Railway



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