



MULTI-DISCIPLINE ENGINEERING SOLUTIONS

- MECHANICAL • ELECTRICAL • PLUMBING • STRUCTURAL CIVIL
- TRANSPORTATION • TELECOMMUNICATIONS/SECURITY
- CONSTRUCTION MANAGEMENT



FIRM PROFILE

- Firm Name:** **Infrastructure Associates, Inc.**
- Firm Address:** 6117 Richmond Avenue, Suite 200, Houston, Texas 77057
- Years in Business:** Seventeen (17) Years. Founded in January 1993
- Ownership:** Texas Corporation
- Certifications:**
- Texas Board of Professional Engineers
 - State of Texas.....HUB
 - TXDot SN.....2160

Firm History & Size:

Infrastructure Associates, Inc. (IA) is a multi-discipline consulting design and engineering firm dedicated to providing professional services to public and private sector clients. **IA** is committed to providing innovative, cost-effective solutions to complex problems for a diverse spectrum of clients. **IA's** history for service excellence has executed design and engineering for our clients and teaming partners. **IA** has a professional staff of 45 and is owned and managed by its senior level professionals.

Firm Size:

Full Time Staff - 45, including 13 Registered Professional Engineers

Firm Services:

- Mechanical Engineering (HVAC & Plumbing)
- Electrical Engineering and Instrumentation/Controls
- Structural Engineering
- Civil Engineering/Site Planning
- Telecommunications/Security Design
- Construction Management & Inspection
- Transportation/Traffic

Firm Experience & Capability: Infrastructure Associates, Inc. provides professional design and engineering services within the following market sectors: Higher Education, K-12, Municipal, State and Federal Government, Health Care, Maritime, Aviation, and Transportation.

Mechanical/Electrical/Plumbing

- HVAC
- Chilled Water, Heating
- Hot Water & Steam Distribution
- Heat Recovery Systems
- Fire Alarm
- Lighting
- Power Distribution
- Domestic Water, Waste/Venting
- Medical/Laboratory Gas Systems

Structural Engineering

- Building Foundation Design
- Equipment Foundation Design
- Steel Frame Design
- Concrete Frame Design
- Bridge Design
- Diagnostic Analysis/Repairs
- Water Retaining Design
- Earth Retaining Design
- Seismic Load Analysis

Telecommunications/Security

- Infrastructure Analysis
- Wired/Wireless Networks
- Electronic Visual Displays
- Telephone Systems
- Distribution Systems
- Security Assessments
- Video Surveillance Systems
- Access/Intrusion Detection
- Master/Strategic Planning

Construction Management

- Perform Construction Oversight
- Perform Inspection Services
- Review Payment Applications
- Approve Payment Applications
- Process RFI's and Submittals
- Confirm Compliance with CD's
- Coordinate with Owners; PM's Engineer-of-Record; Testing Labs; Regulatory Authorities

Transportation /Traffic

- Roadway Geometrics
- CPM-Scheduling
- Bridge Design
- Hydrology/Hydraulics
- Schematic Design
- Traffic Control

Civil Engineering

- Site Planning and Utilities
- Site Development
- Stormwater System Design
- Water/Wastewater System
- Pump Station Design
- Wastewater Treatment Plant

Mechanical, Electrical, Plumbing Engineering

IA's highly qualified staff of professional engineers has an average of 25 years experience in Mechanical, Electrical and Plumbing Engineering. This expertise encompasses a broad spectrum of design and engineering within the Educational, Municipal, State and Federal Government, Industrial Arenas, as well as Petrochemical, Bio-Safety, Environmental, and Teaching Labs.

Higher Education

- Texas A&M University
- University of Houston
- Lone Star College System
- Houston Community College
- Texas Southern University
- Texas Women's University
- University of Texas
- University of Texas MD Anderson



K-12

- Houston ISD Design & Engineering (27 Schools)
- Houston ISD Existing Condition Assessment (130 schools)
 - 2006 Bond Assessment Program
 - 2002 Bond Program Phase I
- Fort Bend ISD Existing Condition Assessment/Design (60 Schools)
- Lamar ISD Design & Engineering for Junior & Senior High Schools
- Galena Park ISD Existing Condition Assessment (6 Schools)
- La Porte ISD ROTC Building Renovations
- Spring Branch ISD Existing Condition Assessment
- Alief ISD Design and Renovations (8 Schools)
- Clear Creek ISD Renovations to ROTC Building
- Port Arthur Independent School District (PAISD)



Municipal Facilities

- City of Houston
 - Fire Station No. 8
 - Fire Station No. 86
 - Fire Station No. 105
 - BSL-3 Laboratory
 - 61 Riesner Police Headquarters Renovation
 - Central Library Renovation
 - Frank Branch Library
 - Kingwood Branch Library
 - West End Health Center Renovation
 - Magnolia Health Laboratory Renovation
 - West End Multi-Service Center
 - Southwest Multi-Service Center
 - Kashmere Multi-Service Center Renovation
 - Department of Public Works : Forty Five (45) Lift Stations
- Harris County
 - Annex 10 Renovations and Additions
 - Annex 4 New Complex
 - Harris County Environmental Laboratory
 - Health & Human Services Building



- METRO (Metropolitan Transit Authority of Harris County)
 - Main Street Light Rail Maintenance Facility
 - Directives Drawings & Specifications-14 Transit Stations
 - Emergency Preparedness Transit Center/Admin. Bldg.



Housing

- University of Texas Health Science Center Student Housing
- University of Texas Pan American Unity Hall
- University of Houston Calhoun Lofts Graduate Housing
- Temenous Place – Saint John Transitional Housing

Laboratories

- ARCO Chemical, Channelview, TX
- Lubrizol Laboratory, Deer Park, TX
- Sigma-Genosys Laboratory
- AVS Laboratory
- City of Pasadena Crime Laboratory
- TXDOT-DPS Headquarters Building and Laboratory
- EPA, Region 6 & 8 Laboratory
- Valero Energy Laboratory
- Inspectorate Laboratory, Beaumont, TX
- Chevron Laboratory, New Orleans, LA



Parking Garages

- University of Texas Parking Garage
- University of Houston Parking Garage
- Houston Community College Parking Garage Expansion
- IAH Bush Houston Terminal A/B Parking Garage
- Harris County Parking Garage, Downtown Houston
- Dallas Love Field Parking Garage



Federal Facilities

- United States Air Force
 - Arnold Air Force Base
 - Jordan Air Force Base
 - Kelly Air Force Base
 - Lackland Air Force Base
 - Osan Air Force Base
 - Warren Air Force Base
 - Westover Air Force Base
 - Whiteman Air Force Base



Other

- The Weekley Family YMCA
- India House Community Center
- Aldine ISD Bus Maintenance Facility
- Cullen Maintenance Facility Expansion
- City of Deer Park Fire Station



Structural Engineering

IA provides structural assessments and design for single-story and multi story facilities, foundations, water and wastewater facilities, bridges, and specialty structures.

Municipal/Federal Facilities

- George R. Brown Convention Center Expansion
- City of Houston Southwest Multi Service Center
- City of Houston Cullen Maintenance Facility Expansion
- City of Houston EWPP, 12.5-MG Water Storage Tanks
- City of Houston Rehabilitation of Ten Steel Water Tanks
- Scott Street Wet Weather Facility
- Port of Houston Authority Grain Storage Tank Improvements
- Pasadena Crime Lab Renovation
- HOBAS Tonopah Desert Recharge Pipeline Restraints
- HOBAS North Gateway FM Pipeline Restraints
- HOBAS Southerly Pipeline Restraints
- METRO Hurricane Preparedness Building Upgrades
- Nellis Air Force Base Airfields Building
- Wingo Inn Visiting Quarters at Arnold Air Force Base



Wastewater Treatment Plants

- Sims Expansion Phase I & Phase II
- City of Houston 69th Street Renovation
- City of Houston North Green MUD Rehabilitation
- Mount Belview Eagle Drive Sewer Lift Stations
- Northwest Harris County MUD 10 Park Creek
- Fort Bend MUD 5 Expansion
- Harris County MUD 1 Expansion
- Harris County MUD 82
- North Green MUD Structural Repairs
- Timber Lane MUD Improvements
- Chelford City Regional Phase II Rehabilitation



Parking Garages

- University of Houston Hilton Hotel
- Cypressbrook Management Executive Plaza



Bridges

- Red Rugosa Drive , Windsor Lakes, Lake Paloma
Greenbridge, Sandy Creek

Seismic Design

- Toshiba International Equipment Design
- Oilfield-Electric-Marine Equipment Design
- LeTourneau Technologies Equipment Design
- Ebara Corporation Equipment Design



Structural Assessments

- Sherwin-Williams Assessment Inspections
- USPS Facility Assessment Inspections for Hurricane Damage

Higher Education / K-12

- Texas Southern University
 - Science Bldg Programming
 - Student Center Plaza Improvements
- UT Gross Anatomy Laboratory Renovation
- UT Health Science Center
 - Recreation Center Renovation & Expansion
 - Dental Branch Building Upgrades
 - Center Tower Building Structural Study
- UT MD Anderson System
 - Griffin Building Vivarium Expansion
 - External Primate Enclosure
 - Reefer Foundation Expansion
- University of Houston System
 - Religion Center Foundation Repair
 - Downtown Campus Cooling Tower
 - Robertson Stadium Renovation
 - Deferred Maintenance Program
- Houston ISD
 - Rucker Elementary School Expansion
 - Gymnasium Renovations (7 Schools)
 - Sam Houston High School Renovation
- Houston ISD Existing Condition Assessment (130 Schools)
 - 2006 Bond Assessment Program
 - 2002 Bond Program Phase I
- Galena Park ISD Existing Condition Assessment (6 schools)



Civil Engineering

IA's civil engineering group has extensive experience ranging from the planning, design and construction of water, wastewater and stormwater projects for municipal and industrial clients (both local and international) to small, rural off-system bridge replacements and major freeway reconstruction projects.

Municipal

- Drainage Improvements at Grade Separations (Multiple Packages)
- City of Houston - Gragg House Headquarters
- METRO Park and Ride - Drainage and Parking Lot Improvements
- Drainage Improvements at Grade Separations (Multiple Packages)
- 5-MG Potable Water Storage Tank at Bellaire Braes Pump Station
- 12.5-MG Potable Water Storage Tank at East Water Plant No. 3
- 36-Inch Watermain Extension on Beamer Road
- Neighborhood Sewer System Improvements
- Sanitary Sewer Lift Stations Rehabilitation:
 - Dairy Ashford, Red Gully, Roark Road
- Sims South Wastewater Treatment Plant Improvements
- Wet Weather Facility Water Quality Analysis:
 - Bretshire, Northside
- Northside Tunnel / Sanitary Sewer Evaluation
- Studewood Street Roadway Improvements
- Glendale and Woodvale Roadway Reconstruction



International

- Ruwais Housing Complex Expansion – Abu Dhabi National Oil Company
- Northern Relief Road – State of Qatar
- Ali Bin Abdullah Roadway Reconstruction – State of Qatar
- Abu Hamour Road – State of Qatar
- Ghana, Africa - Hotel Layout



Industrial/Commercial

- Tube Supply, Inc. - Drainage & Utilities for Warehouse/Office Complex
- Port of Houston Authority - Terminal 7 Site Development
- Continental Airlines, Inc. - Rinsewater Collection and Treatment System

K-12

- Spring ISD Nutrition Center and Warehouse
- Spring ISD Link Elementary School Drainage and Utilities
- Fort Bend ISD Progressive High School Drainage and Utilities



Higher Education

- University of Houston Hilton College
 - Drainage and Paving Improvements
 - Parking Garage Renovations
- Texas Southern University - Student Center Plaza Renovations
- UT MD Anderson - Drainage/Site Improvements A. Griffin Expansion
- UT Health Science Center Recreation Center Expansion



Transportation

Our transportation division has over 19 years experience in the management and design of transportation projects. This experience includes planning, schematic development, analysis studies, plans, specifications, hydraulic design and cost estimates, from small rural off-system bridge replacements to major freeway reconstruction projects for TxDOT, METRO, HCTRA, and Harris County. Our Critical Path Method (CPM) Scheduling experience has been recognized as industry leading.

- TxDOT Off-System Bridge over Guadalupe River
- TxDOT Off-System Bridge over Johnson Creek
- TxDOT CPM Scheduling Support
- TxDOT Plan, Specifications & Estimates
- TxDOT IH-10 Trinity River Bridge
- TxDOT IH-10 at SH16 Interchange
- TxDOT US290 at IH610 Interchange
- TxDOT SH-16 Reconstruction
- TxDOT IH-35 Reconstruction
- TxDOT FM -1103 Reconstruction
- TxDOT SH-123 Reconstruction
- TxDOT FM 1346 Reconstruction
- METRO Solutions Light Rail Program
- METRO Palm Center Transit Center
- METRO Traffic Management Support
- Harris County Park Row Boulevard Widening



Telecommunications/Security

IA's internal understanding of our clients' business processes translates into best practices in the design and engineering of telecommunications infrastructure, wired/wireless networks, electronic visual information displays, telephone systems, in-building distribution systems, surveillance systems, access control and intrusion detection, security assessments, and technology master plans.

Aviation

- Sacramento International Airport
- Dallas Ft. Worth International Airport-AOC
- Fresno Yosemite International Airport – Strategic Plan
- Hartsfield Jackson Atlanta International Airport C4 Facility
- Houston Airport System Radio System Expansion
- Houston Airport System Security Assessment
- Houston Airport System-FIS Building
- Las Vegas McCarran International Airport -Terminal D
- Los Angeles International Airport-SASCO-TBIT Renovation
- New Doha International Airport Information Technology
- Norfolk International Airport Wireless LAN
- Orlando International Airport Special Systems Design
- San Francisco International Airport - Special Systems
 - Terminals A & G
 - Terminal FIS
- San Antonio International Airport, Terminal C
- Wichita Mid-Continent Airport
- Houston William P. Hobby Airport
 - Terminal Improvement
 - Terminal Improvement and Central Concourse
 - Communications System Design



Municipal

- City of Glendale Public Safety Training Facility EOC
- METRO-Intermodal Terminal
- METRO-Security and Telecommunications Design
- Port of Los Angeles Facility Security Enhancements
- San Antonio Emergency Operations Center
- South Carolina State Ports Authority
 - Information Systems Strategic Plan



Higher Education

- University of Houston Board of Regents
- University of Houston Ezekiel Cullen Building
- University of Houston Agnes Arnold Hall
- Lone Star College System
- University of Texas at Dallas

K-12

- Houston Independent School District (HISD)
- Port Arthur Independent School District (PAISD)

Other

- Metropolitan Detention Center, Los Angeles
- United States Penitentiary, Pennsylvania
- United States Correctional Institute, West Virginia



Construction Management

This Division has successfully completed over 30 Construction Management Projects which include management, inspection, scheduling, cost estimating, claims management, safety monitoring, and commissioning. IA recently was Construction Manager for a \$90 million prison facility for the Federal Bureau of Prisons in Pollock, Louisiana.

Prisons/Detention Centers

- Federal Bureau of Prisons, Pollock, Louisiana
- Federal Bureau of Prisons, Federal Detention Center Houston, Texas
- TDCJ Harris County 2000-Bed Mode 1 Prison
- TDCJ Emergency Prison Bed Program, Meat Packing Plant
- TDCJ Emergency Prison Bed Program; 21 Sites
- TDCJ Prototypical Unit for High Security Cell, Ellis Unit



Airports

- IAH Bush Terminal C Renovations, Houston Airport System
- IAH Bush Central Plant Expansion, Houston Airport System
- IAH Bush TSA/OSR Baggage Conveyor System
- IAH Bush Miscellaneous On-Call Projects
- William P. Hobby Airport Terminal Expansion and Renovations
- Continental Airlines Terminal B Check Hanger



Municipal Facilities

- 69th Street Wastewater Treatment Plant Air Testing & Inspection
- Park Ten Wastewater Treatment Plant Expansion
- Northeast Wastewater Treatment Plant Expansion
- Scott Street Wet Weather Facility
- Northside Wet Weather Facility
- Southeast Water Purification Plant
- City of Houston, Parks To Standards Project
- City of Houston, City Hall Renovations
- Harris County Flood Control District Maintenance Management
- Port of Houston Authority Sea Land Facilities, Barbour's Cut
- METRO As Needed Construction Management Services
- Kirby Drive Reconstruction from IH-610 to Braes Bayou
- Neighborhood Street Reconstruction No. 455



Other

- Pasadena ISD Bond Program Management Services
- UT MD Anderson Cancer Center Ambulatory Clinical Bldg.



Key People

Infrastructure Associates, Inc. has professional and technical personnel who are committed to identifying your goals and needs and devising a plan to meet them on time and within budget.

	<p>Vasant Hariani, P.E. President Structural Engineer</p>	<p>Vasant has over 40 years of structural and civil engineering experience, including design and project management relating to site development, structural engineering, bridges, and construction management. Vasant founded Infrastructure Associates, Inc. in 1993 and continues to serves our clients and ensures that their goals and expectations are achieved. He provides extensive hands-on Leadership to IA's professionals.</p>
	<p>Rahim Tazeh, P.E., LEED AP Vice President Senior Electrical Engineer</p>	<p>Rahim has over 28 years of progressive professional experience in the fields of design, engineering and project management. His participation of projects include: system analysis, planning, trouble shooting, controls/instrumentation, design and engineering in renovations and new facilities as well as individual systems design. He has provided LEED field investigations and energy analyses on: code review, regulations, environmental concerns, cost implications and a review of alternative solutions.</p>
	<p>Douglas A. Garnett, P.E. Principal Civil Engineer</p>	<p>Douglas has 20 years of experience in the planning, design, and construction of water and wastewater projects for municipal and industrial clients. His experience includes engineering design, construction oversight and project management through the interpretation of plans, specifications, as well as monitoring and auditing construction of large facilities.</p>
	<p>Brad White, P.E. Principal Transportation Engineer</p>	<p>Brad has 19 years of transportation design and project management experience. This includes planning, schematic development, analysis studies, plans, specifications, hydraulic design, cost estimates, roadway and bridge design. He has completed several projects ranging from small rural off-system bridge replacements to major freeway reconstruction projects for TxDOT, METRO, HCTRA, and Harris County.</p>
	<p>Patrick J. Geisler, P.E. Principal - Technology Electrical Engineer</p>	<p>Patrick has 12 years of experience in the design and engineering of telecommunications and special systems. He has a background in radio and wireless communications, data networks, cabling infrastructure, and Airport systems. His clients include The Houston Airport System, Houston METRO, and the University of Houston.</p>
	<p>Jim Milner, P.E. Principal Structural Engineer</p>	<p>Jim has 36 years of structural engineering experience with commercial, institutional, healthcare, educational, industrial and governmental projects, both renovation and new construction, from conceptual design through construction administration. He has worked as design engineer and project manager for a wide range of projects including office buildings, hospitals, parking garages, churches, retail centers, hardscape structures, and heavy industrial support structures.</p>
	<p>George Wozny Project Manager Structural Engineer</p>	<p>George has 29 years of experience in the design of commercial, industrial, municipal, and federal government facilities. He has worked on a wide variety of projects including water/wastewater treatment facilities, bridges, educational facilities, power plants and parking garages. These projects have involved new building construction as well as structural assessments, rehabilitation, and alterations of existing facilities.</p>

List of Representative Clients

3D/International	Gensler Architects	Port Arthur ISD
Arcadis	Gilbane Building Company	Prozign Architects
Atser	Halliburton Energy	PTI, Inc.
AKZO Nobel	Harmony Charter Schools	Quest Laboratories, Inc.
Ambrose, McEnany and House Architects	HarrisonKornberg Architects	Ray De La Reza Architects, Inc.
ARCO Chemical Company	Hermes Architects	R.G. Miller Engineers, Inc.
Autoarch Architects	HNTB Corporation	Reh Burwell Partners Architects
Bailey Architects	HOBAS Pipe USA	Robert Hansen & Associates
Black & Veach, LLP	HOK Architects, Inc.	RVK Architects, Inc.
BLN Engineering	Honeywell	RWS Architects, Inc.
Boxer Property	Houston Airport System	Sacramento International Airport
Boyer Construction, Inc.	Houston ISD	San Antonio International Airport
BPMS Architects	IDG Architects	S & B Infrastructure, Ltd
Brave Architects0	Jacobs Facilities, Inc.	SABIC-America
Brewer & Escalante, Inc.	Johnston Pipes, UK	SBWW Architects
Carter Burgess, Inc.	KBR	Sigma Genosys
Catalyst Consulting Group, Inc.	Kirksey, Architecture	Smith & Company Architects
ccrd Partners	LCS Constructors, Inc.	Southwestern Bell Telephone
Chevron Refinery	Lockwood Andrews and Newnam	STOA/Golemon/Bolullo Architects
City of Houston	Lone Star College System	Sunland Group
City of Pasadena	Madsen, Kneppers & Associates	SWA Group, Inc.
Conoco	Metroplex Industries, Inc.	The Port of Houston
Cobb Fendley & Associates	METRO, Houston	The Port of Las Angeles
CRSS Constructors, Inc.	Mitsubishi Corporation	The University of Houston
Curry Boudreaux Architects	M-Architects	The University of Texas System
Day Brown Rice Engineers	Morris Architects	Texas A&M University
Department of Public Safety	Munson Kennedy Partnership	Texas Women's University
Dynacare Hemann Hospital	Othon, Inc.	TX Department of Public Safety
E & C Engineers	Page Southerland Page Architects	Toshiba International Corporation
EDI Architects	Parsons Brinckerhoff, Inc.	Trammel Crow Corporation
Environmental Protection Agency	Pate Engineers	Tri-City Steel, Inc.
ESPA Corporation	PBK Architects	Tube Supply, Inc.
Exxon	PDG Architects	University of Texas M.D. Anderson
Federal Bureau of Prisons	Pepper-Lawson Construction, Inc.	Turner and Bair Architects
FKP Architects	Perkins + Will Architects	Van De Wiele Engineering, Inc.
Fort Bend ISD	PGAL Architects	Weston Solutions, Inc.
FS Design Group	Philo & Wilke Architects	White Oak Studios
Garver Construction	Powers Brown Architects	WHR Architects