

## HVAC AND PLUMBING ENGINEERING

ARPER, Consulting Engineers, relies on an experienced team of mechanical engineers, with vast knowledge in the field of Heating, Ventilation, Air Conditioning and plumbing systems, to provide surveying, analysis and Design, as well as construction observation. ARPER's project portfolio includes both, new construction and renovation projects. Our mechanical engineers have the ability to understand our client's needs and to provide the most adequate Solution to satisfy our client's objectives.

ARPER's typical services for HVAC and plumbing Engineering include:

PLANNING PHASE	DESIGN PHASE	CONSTRUCTION PHASE
Master planning and phasing studies	Energy audits	Bid Evaluation
Building survey evaluations and feasibility studies	Technical assistance studies	Submittal review
Programming and space allocation planning	Energy conservation and energy recovery analysis	Construction Observation
Cost estimating Code compliance	System design analysis	Project Conference Participation
Energy usage analysis and modeling	Chilled water plant design and replacement	Building Commissioning
Utility Coordination	Pumping systems	Project Punch-Out
Building Commissioning	Control system analysis, retrofit, and replacement	
	Cost estimating and value engineering	
	Clean room and special environments design	
	Indoor Air Quality	

### Contact Information:

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## ELECTRICAL

The Electrical Engineers that provide services for ARPER have vast experience in the design of electrical systems for new and renovation projects. ARPER provides Electrical Engineering services for a variety of assignments that range from tenant improvements and condo conversions, to power distribution systems for large commercial, institutional and industrial facilities.

ARPER's typical services for Electrical Engineering include:

PLANNING PHASE	DESIGN PHASE	CONSTRUCTION PHASE
Master planning & phasing process	Energy audits and efficiency	Bid Evaluation
Building evaluation and feasibility studies	Interior and exterior lighting design	Submittal review
Programming and space allocation plans	Substations, incoming service and sub-metering	Construction Observation
Cost estimating Code compliance	High and low voltage power distribution system	Project Conference Participation
	Normal & emergency power distribution system	Building Commissioning Project Punch-Out
	Special systems, (Fire alarm, security, telecom & CATV)	
	Computer room environment	
	Cost estimating and value engineering	
	Automated control systems	

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## CIVIL AND STRUCTURAL

ARPER provides civil and structural engineering services. As part of its complete design packages, ARPER designs PAVING AND DRAINAGE, WATER AND SEWER for all types of development projects.

ARPER has specialized in steel detailing and steel structures shop drawings.

<b>PLANNING PHASE</b>	<b>DESIGN PHASE</b>	<b>CONSTRUCTION PHASE</b>
Master planning & phasing process	Alternative Design Studies Coordination with Clients	Shop Drawings and Submittal Reviews
Building evaluation and feasibility studies	Coordination with Local Jurisdictions	Construction Site Visits
Programming and space allocation plans	Cost Estimating and Value Engineering	Preparation of Reports
Cost estimating		Project Punch-Out
Code compliance		

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