

## BUILDING ASSESSMENTS

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Rensch Engineering has surveyed over 500 projects which has given them a unique perspective and understanding when making Mechanical, Electrical, and Plumbing (MEP), and Fire Protection building assessments.

Design Services are as follows:

### Mechanical:

- Survey existing mechanical systems including heating, cooling, ventilation, and exhaust systems
- Identify existing zoning and system control
- Make recommendations for new energy code compliant systems
- Provide an energy model of existing building and provide design scenarios/upgrades along with payback periods
- Make recommendations for control upgrades
- Commission existing buildings and determine if systems are operating properly
- Make recommendations for older oil burning or steam system replacements
- As-built existing systems including hydronic and ductwork layouts

### Electrical:

- Survey existing electrical systems including power distribution, lighting and controls, and communications
- Determine existing loads on systems by calculation and providing 30-day demand meter readings
- Make recommendations for energy upgrades including lighting and controls
- Make recommendations regarding replacement of older equipment, wiring, lighting, and receptacles
- Help client determine if existing power system will meet their needs
- Coordinate with power companies to determine options and requirements for service changes
- Commission existing buildings and determine if power and lighting systems are operating properly
- As-built existing power systems including tracing circuits if needed

### Plumbing:

- Survey existing plumbing systems including cold water, hot water, plumbing venting, sewer lines, compressed air, medical gas/vacuum, grease waste/interceptor, and hot water systems
- Determine existing demand loads on all these systems
- Make recommendations for energy upgrades including potential solar water heating and newer heat pump water heaters

## MECHANICAL AND ELECTRICAL BUILDING DESIGN

- Make recommendations regarding replacement of older equipment and piping
- Help client determine if existing plumbing systems will meet their needs
- Coordinate with gas, water, and sewer companies/utilities to determine options and requirements for changes
- Commission existing buildings and determine if plumbing systems are operating properly
- As-built existing plumbing systems including sewer camera scopes to confirm line integrity and routing

Fire Sprinkler and Fire Alarm:

- As-built existing fire sprinkler and fire alarm systems
- Evaluate potential changes and impacts to existing systems
- Provide full design guidance for fire alarm system changes
- Provide performance guidance for fire sprinkler systems