



# **CSI ENGINEERING**

**HVAC • ELECTRICAL • PLUMBING • FIRE PROTECTION**

## **John Cass Principal Mechanical Engineer**

### **EDUCATION**

Wentworth Institute of Technology, BS, Mechanical Engineering

Mr. Cass is a Mechanical Engineer at CSI Engineering LLC with over 25 years of building HVAC systems experience, including site surveys, system assessment, master planning, energy analysis, building design, construction administration and start-up of HVAC systems. Mr. Cass has performed these services for K-12 schools, colleges, hospitals, industrial facilities, office buildings, a variety of municipal and transportation-related buildings and numerous other types of facilities.

### **Healthcare Facilities**

#### ***Holy Family MRI, Methuen, MA***

This was a design build project to install a new MRI at Holy Family Hospital.

#### ***Magnetic Resonance Imaging (MRI) Suites – Boston Floating Hospital, Boston, MA***

This project included the complete design and construction of five new rooms to service new equipment provided by Siemens Corporation. Design included MRI patient exam rooms where the new Harmony Magnetom units are located, the MRI electronic equipment rooms and the MRI control room.

#### ***Neely Foundation Stem Cell Collection Facility - Tufts Medical Center, Boston, MA***

The project was a complete renovation to accommodate the new facility. The design included a custom air handling unit with complete HEPA filtration. The facility included isolation suites, offices and patient care rooms.

#### ***128 Slice Computed Tomography (CT) Scan Labs - Tufts Medical Center, Boston, MA***

Design and renovation of existing CT Scan Lab. The existing lab was up-graded to the first of its kind 128 slice CT scan machine. The design included new process chillers, pumps and modifications to the existing piping.

#### ***Electrophysiology (EP) and Cardiac Catheterization Labs - Tufts Medical Center, Boston, MA***

Design and addition of third C-Arm to new EP room while existing facility remained in operation. Design included modifications and up-grades to the existing variable volume air distribution systems.

#### ***Intensive Care Facility (Project is On Going) - Tufts Medical Center, Boston, MA***

Two story complete renovation, phased by floor. This is a new 12 bed intensive care facility all served by an existing roof top unit. This project requires precise phasing as the top floor will be renovated first while the lower floor will remain in operation. The design will have positive pressured rooms for transplant patients and negative rooms for tuberculosis patients.

***Heliport Project – Tufts Medical Center, Boston, MA***

New HVAC design and construction for snow melt system on Tufts' heliport. Provide a new automatic snow melt system that utilized the building's existing steam system.

**Laboratory Facilities**

***Ziskind 3 Animal Storage Facility – Tufts Department of Animal Lab Medicine, Boston, MA***

Complete renovation to existing 15,000 square foot space. The design was a full redundant AAALAC certified animal storage facility. Design included dirty and clean cage storage, cage wash, offices and surgical suites.

**College Facilities**

***UNH Jenkins Court, Durham, NH***

HVAC and Plumbing design for a new (4) story apartment building at the University of New Hampshire.

**Housing Facilities**

***Glenridge Senior Living, Atkinson, NH***

HVAC design for (3) new senior living apartment buildings.

***Hyannis Hostel, Hyannis, MA***

HVAC design for the retrofit of (3) existing buildings being converted into hostel style buildings.

***Marriott Residence, New Lake front Vacation Home, Mirror Lake, NH***

HVAC design for a new 12,000 SF vacation home. Design included a new boiler plant, chiller plant, an energy recovery unit, humidification, de-humidification and controls.

***Riverwoods, Exeter NH***

Assisted living facility, new and demolition HVAC design for the construction of a new chilled water system. Chilled water system included roof mounted absorption chillers and chilled water piping distribution.

***Hampton Place, Retirement Community 1000 FT of Underground Condenser Water, Chestnut Hill, MA***

HVAC design of the communities' underground condenser water piping for their heat pump systems. This design was done originally for the emergency issues and done for long term correction of the issues.

***North Shore Design Center (NSDC), Mixed Use Building, Rowley, MA***

New construction for a two story 100,000 SF mixed use building. The HVAC design include multiple boiler plants and roof top units for each of the tenant spaces, multiple boiler plants for the owner's space and the warehouses and radiant systems for the entire building including the snow melt system for the 80,000 SF parking lots.

**Educational Facilities**

***Little Professionals Learning Center, North Andover, MA***

HVAC design for the construction of a new 15,000 SF childhood development center.

***Little Sprouts Day Care, Methuen, MA***

Study, design and construction phase services to modernize this existing school building including the replacement of the MEP systems in their entirety.

***Plymouth Middle School, Plymouth, MA***

Construction administration for the building's HVAC systems.

**Municipal Facilities**

***State Police Facility, Medford, MA***

Plumbing design for the renovation of the State Police Barracks in Medford, MA.

***EMS Facility, Colebrook, NH***

Plumbing and Fire Protection design for a new Emergency Services building in New Hampshire.

***GSA US Citizenship and Immigration Services, Bedford, NH***

Plumbing design for a new (2) story Immigration building in New Hampshire.

***Engine 3 Harvey Rd. Fire Station, Manchester Airport, Manchester NH.***

*Complete new HVAC design for 10,000 sq.ft. fire station with particular attention to reduction of noise transmission from exterior environment. All work was designed per code.*

***Stratham Police Department, Stratham, NH.***

*Complete new HVAC design including exhaust system, air handling units, condensers, ductwork distribution and gas fired furnace. All work was designed per code.*

**Commercial**

***Aquatic Center Improvements, Brookline, MA***

HVAC design to modernize this renovated pool area.

***Concord Country Club, Concord, MA***

HVAC design for new renovated locker rooms and kitchen. Provide new ventilation systems for the locker rooms and kitchen areas.

**Restaurants**

***Alma Nove Restaurant, Hingham, MA***

HVAC design for a new restaurant within the Hingham Shipyard development.

***Aquataine Restaurant, Dedham, MA***

HVAC design for a new restaurant within the Legacy Place Mall in Dedham, MA.

***Metropolitan Club Restaurant, Dedham, MA***

HVAC design for a new restaurant within the Legacy Place Mall in Dedham, MA.

***J.P. Licks, Dedham, MA***

HVAC design for a new ice cream parlor within the Legacy Place Mall in Dedham, MA.

***Temptations Cafe, Brookline, MA***

HVAC design for a new café style restaurant in Brookline, MA

***RiRa Irish Pub, Portsmouth, NH***

HVAC design for a new two story restaurant located in downtown Portsmouth.