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Jason Churches, PE

Principal – Chief Mechanical Engineer – Project Manager

EDUCATION

University of Massachusetts Lowell, BS, Mechanical Engineering Technology

REGISTRATION / PROFESSIONAL AFFILIATIONS

Professional Engineer licensed in ME, MA, NH. ASHRAE member

Mr. Churches is a Mechanical Design Engineer at CSI Engineering LLC with over 5 years of CAD and Revit technician experience as well as 10 years of mechanical design. He has gained extensive experience in site surveys, existing conditions reports, systems designs, reviews, and assessing as-built conditions. Mr. Churches has performed these services on hospitals, schools, churches, commercial and residential spaces, and varied industrial projects.

RELEVANT EXPERIENCE

LeLacheur Park, Lowell, MA

This project included the renovation of the heating system and hot water systems for the Lowell Spinners Facility. The scope of this work included providing three new high efficiency condensing boilers for a new hydro-air HVAC system. The renovation also supplied five high efficiency condensing boilers for three new indirect hot water tanks.

Ben Franklin Institute Auto Center, Boston, MA

11,000 sq. ft. renovation to the existing Ben Franklin Institute of Technology's Automotive Learning Center. Renovation includes upgrading the existing hot water heating system, new ventilation system to meet current codes, updating the fire protection to accommodate the new space requirements and provide new plumbing systems to meet current code.

Massachusetts State Marine Facility, Boston, MA

Designed to replace an existing 1300 MBH oil fired steam boiler with a new 1300 MBH gas fired steam boiler. CSI also provided new controls, F&T traps, strainers, and valves for all heating coils within the building. Also incorporated in the design was a 500 MBH waste oil boiler to provide additional heating to the docks from used motor oil from the State Police boats.

Portsmouth Naval Shipyard, Kittery, ME

Performed Mechanical, Electrical and Plumbing engineering services for multiple energy conservation projects within the Portsmouth Naval Shipyard in Kittery, ME. Contract includes site visits and designs for over 60 ancillary and multi-use buildings. Our scope includes the replacement of outdated refrigerant, R22, with R-410A. CSI's design focus was on energy efficiency to comply with State and Federal mandates. The upgraded VRF system is now more energy efficient, as are the new pumps associated with the hot water system.

LAARS Testing Facility, Rochester, NH

This project included the new design for LAARS new testing facility in Rochester, NH. The scope of work included providing 15 boiler test stations. The boiler test stations vary in size from 50,000 BTU to 5,000,000 BTU boilers.