Anthony Mazotti

Title: Mechanical Designer

Education: Graduated in 2017 with a Bachelor's of Science in Mechanical Engineering from the University of Nevada, Reno.

Professional Affiliations: American Society of Heating, Refrigerating, and Air Conditioning-Engineers (ASHRAE), American Society of Mechanical Engineers (ASME)

Experience & Qualifications: Before joining AAME, Anthony worked as a Project Engineer in construction. He gained valuable on-site experience that has aided in his ability to design HVAC and plumbing systems with field constructability and feasibility of cost/installation in mind.

As a Mechanical Designer, Mr. Mazotti works directly with Architects, Electrical Engineers, Contractors, Mechanical Engineers, and other clientele to design new or replacement heating, cooling, and refrigeration systems specific to customer needs and building specifications. He is also responsible for performing and analyzing load calculations based on building parameters to ensure ductwork, piping, and their corresponding mechanical systems are sized and operate appropriately for the project.

Mr. Mazotti's education includes energy-balance and thermal sciences coursework consisting of Heat Transfer, Fluid Mechanics, Thermodynamics, and Intermediate Thermodynamics. He is versed in, and continues to educate himself with, design software including AutoCAD, Revit, HAP, BIM360, and Bluebeam Revu.

Anthony utilizes his construction and mechanical engineering experience to deliver HVAC/MEP designs with constructability and cost in mind.

Projects:

Lovelock Correctional Center Site Piping and Boiler Replacement

Anthony's first project at AAME consisted of the replacement of underground, low temperature heating hot water and chilled water piping serving approximately twelve buildings across the 215,000 square-foot prison campus. Utilizing his experience in construction, Anthony carried out and helped submit an Opinion of Probable cost which included summaries of the linear footage of pipe, material cost, and labor costs per standard pipe size for each pipe system. Special consideration was given to the evaluation of material properties in pipe selection, where installation time for plasticized pipe without fittings was compared with cast iron pipe containing multiple fittings.

Eureka County School District – High School HVAC Upgrades Study

Anthony performed a heating and cooling load analysis of Eureka High School in Eureka, Nevada. He utilized the Hourly Analysis Program (HAP) to study and model design heating and cooling loads based on critical factors such as construction systems, existing heat-producing equipment, building occupancy, solar orientation, geographic location, and mechanical equipment. The findings were then used by AAME's Principal Engineer to simulate the energy usage of three pieces of equipment, of which a water source heat pump system was confirmed as most feasible for building operation from an energy savings standpoint.

Northern Nevada Adult Mental Health Services Campus – Washoe County Homeless Housing Project

Anthony was also on the design team for the remodel of six buildings spread across the Northern Nevada Adult Mental Health Services Campus. He assisted in the design of major interior renovations including HVAC/controls upgrades and plumbing fixture upgrades in an effort to provide shelter and comfort for the homeless and mentally ill.