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TFMoran receives Structural Engineers of New Hampshire Excellence in Structural Engineering Award

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Manchester, NH On May 16th, Structural Engineers of New Hampshire held their annual Excellence in Structural Engineering Awards event at The Derryfield. Entries were judged on creativity, complexity, innovation, ingenuity, and suitability of the structural design for each of three categories: Buildings; bridge and transportation structures; and special structures.

TFMoran was honored to receive the award in the “buildings” category for Medicus Healthcare Solutions office building complex in Windham, N.H. TFMoran’s senior structural project engineer, Thomas Lamb accepted the plaque from SENH president, Christopher Fournier during the presentation.

Shown (from left) are: SENH president Christopher Fournier; and Thomas Lamb, TFMoran

Medicus Healthcare Solutions office building complex is a newly constructed three building complex. The buildings contain 100,000 s/f of office space and are all connected by enclosed pedestrian bridges at the second floor. Each building is framed of a hybrid system of insulated concrete formed (ICF) walls and steel open web floor joists, beams and columns. The building is founded on concrete spread footings.

ICF walls at the exterior were chosen as an economical and energy-efficient solution in lieu of the typical steel frame and metal stud curtain wall system used on most office buildings. The wall systems provided several benefits including a robust lateral load resisting system, ICF formed brick shelf, increased flexibility with façade material installation, and simplicity of connections between buildings.

A three-dimensional structural model was produced for the design of the buildings. The model was then imported into Building Information Modeling software to produce the structural drawings for the project.