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NEWS RELEASE FOR IMMEDIATE RELEASE

O'Donnell & Naccarato Wins NCSEA's Outstanding Project Award for Robert Wood Johnson University Hospital's Proton Therapy Center

PHILADELPHIA, Pa. October 18, 2012 - Dozens of structural engineering firms from around the country gathered in Saint Louis earlier this month for the **National Council of Structural Engineers Associations'** annual Excellence in Structural Engineering Awards banquet. O'Donnell & Naccarato's Vice President accepted the Outstanding Project Award for New Buildings under \$10 Million. The award recognizes O'Donnell & Naccarato's structural engineering design role on Robert Wood Johnson University Hospital's new Proton Therapy Center in New Brunswick, New Jersey. Challenged by the confined site, deep excavation, radiation shielding requirements and the tight tolerances of the medical equipment, the project team incorporated several unconventional solutions into the center's design. Through constant coordination with the design assist construction team, as well as the use of Autodesk's Revit Structure building information modeling software, O'Donnell & Naccarato was able to deliver an efficient structural design of high complexity in a small 4,900 SF footprint 40 feet below the ground.

The center was designed to house two proton therapy treatment machines, which emit positively charged atomic particles that can be focused precisely on small cancerous tumors and lesions, without harming the surrounding, healthy tissue. Due to adjacencies with the existing building, neighboring properties and a busy thoroughfare, the construction required an unusually deep excavation of 40'. Various technical innovations were incorporated in the concrete and steel design to counter massive hydrostatic forces and meet strict requirements for the implementation of precision medical equipment. The treatment floor utilizes a notched cantilevered concrete slab which allows the medical equipment to rotate 180 degrees from directly below to directly above the patient. To avoid interfering with the motion of the rotating cyclotron and counterweight assembly, the team designed a hung catwalk system that allows for equipment maintenance within the treatment room vault.

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Out of pure necessity to meet the atypical design challenges, the Robert Wood University Hospital Proton Therapy Center project brought the absolute best qualities out of our team and produced innovations which we apply on all proton projects. I'm honored by NCSEA and the national engineering community for acknowledging our efforts.

” - Anthony Naccarato, PE, SECB

The structural portion of the center was completed in 2010. O'Donnell & Naccarato's partners on the project team were **Stantec** (architect and project manager), **Highland Associates** (MEP engineer), and **Wm. Blanchard Co.** (construction manager).

About O'Donnell & Naccarato

For nearly 60 years, O'Donnell & Naccarato, a consulting structural engineering firm with project management, facade restoration and parking garage design and restoration divisions, has been recognized for its expertise in designing and managing projects of all sizes, types and levels of complexity. Working closely with architects, owners and developers from across the nation, O'Donnell & Naccarato offers innovative alternatives and efficient designs that keep costs in line and allow for ease of construction. O'Donnell & Naccarato strives to provide the most in-depth analysis so that each building will support the design and system elements critical to its architectural expression and unique purpose.

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