

July, 2018

There are four mock-ups being constructed north of City Hall. Each is being constructed like a different section of the new Municipal Complex. The main purpose of these advanced mock-ups is to enable testing and simulation of air infiltration levels in the building envelope. In other words, how much air from the inside of the building is being leaked to the outside and vice-versa. To aim for Net Zero Energy, the Countryside Municipal Complex has been designed to achieve a maximum 0.25 CFM/ft<sup>2</sup> infiltration rate, which is 165% higher performance than conventional, energy conscious practices might meet.

One of the key take-a-ways from early energy studies by Dewberry Architects was the significance of a tight building envelope in reducing energy demands. The second purpose of the advanced mock-ups is that the contractors will be using the actual building construction materials and finishes that will be used on the construction of the new Municipal Complex. Being able to assess things ahead of time, like: installation of the windows and doors, the color of the brick and mortar, the color of the metal trim, and how all the materials come together will help to reduce issues during the construction of the facility.

