

Easton Beach UV Disinfection System Construction  
August 12, 2010

Construction has begun for the Easton Beach Stormwater UV Disinfection System .The UV System was selected to treat the storm water that flows from the moat onto Easton Beach after a comprehensive review of a wide range of other stormwater treatment approaches determined that those approaches (e.g. infiltration, constructed wetlands and filtration practices), could not reliably treat stormwater and would also be significantly more expensive than the proposed UV system.

The construction contract #10-042 was awarded to C.H. Nickerson & Co., Inc. (Nickerson) of Torrington, CT at the January 27, 2010 City Council meeting for a total project cost of \$5,031,061 of which \$20,000 is allocated for Police Details to be paid directly by the City. Substantial grant funding from RIDEM (\$2,560,000) and USEPA (\$286,000) has been issued to the City for this project in order to reduce pollution at Easton Beach. These grants reduced total construction costs to the City to \$2,185,061. Both State and Federal agencies contributed significant money to this project after City officials applied for that funding.

Based on Nickerson's including the Trojan UV system (out of Ontario, Canada) in their construction bid, an Environmental Protection Agency (EPA) waiver from the Buy American requirements was sought. The waiver was required as a portion of the money allocated for this project was provided by the federal American Recovery and Reinvestment Act (ARRA) that requires all material permanently incorporated into the project to be purchased from a manufacturer located in the United States. The Trojan UV system was selected because of Trojan's experience treating similar discharges, as at Easton Beach, and their systems ability to provide higher levels of treatment. A waiver request was submitted to EPA on February 4, 2010. Final approval from EPA was granted on June 15, 2010.

The formal notice to proceed for construction was issued to Nickerson on June 22, 2010 and the official start of the contract was June 28, 2010. Nickerson has indicated in their preliminary schedule that work is to begin with installing erosion controls and stripping top soil, which commenced on August 10, 2010. Nickerson is next scheduled to begin installing steel sheeting that will temporarily support the earth excavations needed to install the concrete foundations and equipment for UV system and pumps. Permanent sheeting will be installed along the adjacent moat for the diversion structure and to stabilize the embankment. The sheet piling will be installed by a vibratory hydraulic driver and will generate noise as the long steel sheets are pushed into the ground. The sheet pile installation is expected to begin on August 17, 2010 and is expected to take approximately two weeks to complete.

Upon completion of the sheet piling installation, the site will be excavated further to allow for timber pile installation. Timber piles will be installed to provide adequate support of the UV system and diversion structure. Timber piles are long wooden post that are pointed at one end and flat at the other. The timber piles are installed by a

hydraulic hammer and will generate noise as the pile are driven into the ground. This work is anticipated to begin two weeks after the sheet piling has been complete (approximately the week of September 16, 2010.)

The City has retained the engineering firm, Fuss & O'Neill to serve as the City's construction site representative to assure that the work proceeds as specified.