

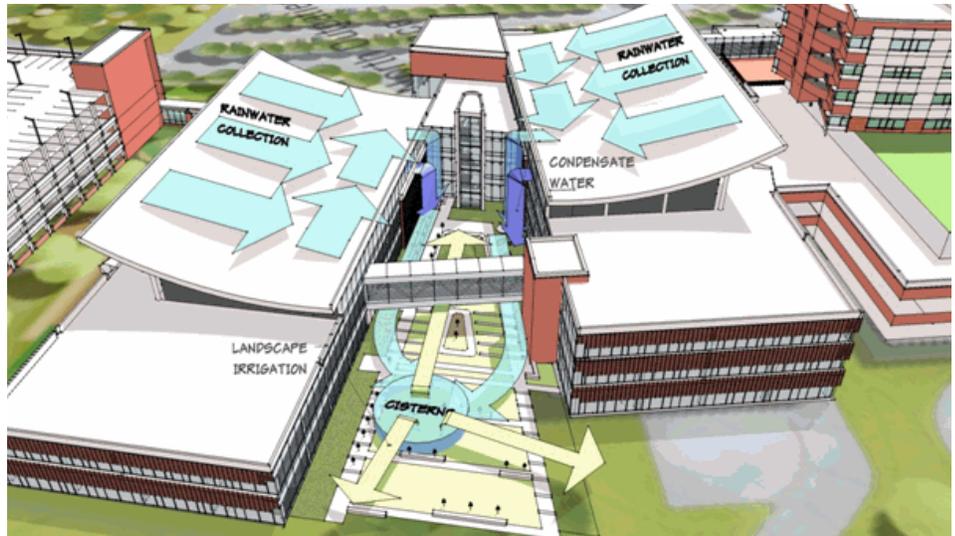


# Tools to Assist Installations with Stormwater Management

by Patricia Donohue

USACE would like to share with the DPW community the “Hydrology and Low Impact Development” web page. It is intended to be a collaborative environment to share low impact development (LID) questions/concerns/lessons learned with the community and to address latest successes, review and interpret new mandates or address shared challenges in LID. The newly established web page will act as the Army’s central repository for LID policy, guidance and technical information, best management practices, and examples of projects that successfully meet LID requirements. The site already has the following Army documents posted for your use: draft implementing guidance titled, Army Stormwater Management Using Low Impact Development; Army Low Impact Development Technical User Guide and the Army LID Planning Tool. The Technical User Guide provides practical planning and design examples on how to construct successful LID best management practices (BMPs). The site is located at the following link: <https://mrsi.usace.army.mil/sustain/SitePages/CX/Hydrology%20LID.aspx>

A team of Subject Matter experts will provide content to include guidance documents, case studies, best management practices and tools to assist the user in designing construction projects that



*Rainwater Harvesting from Sloped Roofs at Fort Belvoir, Virginia*

conserve water and reduce the impact of the constructed environment on the surrounding natural resources. Careful planning and development can strategically create a stormwater management system that mimics the natural hydrology of a site while reducing the volume of post-development stormwater runoff from a site. Additional documents posted on the site include: DOD policy guidance dated 19 Jan 2010, Section 438 of the Energy Independence and Security Act (EISA), EPA Technical Guidance on Implementing the Stormwater Runoff for Federal Projects Under Section 438 of the Energy Independence and Security Act, and UFC 3-210-10. Please follow this website, as information, references and resources will continually be added to include such things as a cost estimating tool, training materials, and examples of LID BMPs implemented on military installations.

LID is a rapidly growing concept in stormwater management o address runoff issues associated with new residential, commercial, and industrial suburban development

to protect natural resources. LID presents a paradigm shift from treating stormwater as something to be moved quickly from the site to managing stormwater as a valuable resource on a site. Investing in and properly implementing LID BMPs will provide the Army with increased sustainable solutions and help the Army achieve Leadership in Energy and Environmental Design (LEED) excellence.

Hydrology is an organizing principle that is integrated into site planning and installation level planning. Development increases impervious areas and impacts natural hydrology, causing erosion, sedimentation, habitat loss, and water quality degradation. Managing stormwater through the use of integrated small scale LID BMPs provides for infiltration, filtration, evaporation, detention and storage to control stormwater runoff discharge, volume, frequency; maintain water temperatures; and provide pollution prevention opportunities. The primary goal of LID is to mimic a site’s pre-development hydrology by managing stormwater runoff close to its source. LID integrated across a project site, and especially into installation level planning, brings about a decentralized and holistic approach to the management of



*Permeable Pavers at Fort Lee, Virginia*



# Ms. Suzanne M. Harrison is OACSIM Army Housing Division Chief

by Zeli King

After many years of dedicated service to the Army Housing Program, in January 2013, Ms. Suzanne Harrison was selected as chief, Army Housing Division, Office of the Assistant Chief of Staff for Installation Management (OACSIM), Headquarters Department of the Army (HQDA). With Ms. Harrison's selection she will lead the Army's Housing program through the 2020 transformation.

Ms. Harrison also experienced the full range of civilian corps work opportunities as she worked her way through the ranks at various installations across the Army footprint. Ms. Harrison has been a federal employee for the Army for 26 years and started her career in a temporary GS-3 position. She has worked in numerous locations and held a variety of career building positions at Presidio of Monterey and Fort Ord, CA; Forts Greely and Wainwright, AK; Headquarters, US Army Europe, Heidelberg, Germany; 100th Area Support Group, Grafenwoehr, Germany; and at OACSIM.

Ms. Harrison has been a member of the OACSIM housing team since January 2000 serving in several challenging

positions such as strategic planner, branch chief, Unaccompanied Housing; deputy division chief, Army Housing, and most recently, acting division chief, Army Housing.

As Chief, Army Housing, Ms. Harrison is responsible for the development and management of Army Housing policy world-wide and focused on providing residential communities of excellence to our Soldiers, Civilians, and their Families. Her personal actions reflect Housing's five "A's" of customer service (Attitude, Attention, Action, Accountability, Alignment). She intends to enhance programs such as the Family Housing Services, Unaccompanied Housing, Lodging, and Housing Management, through personnel development at the Army Housing Academy through its curriculum and course offerings. The establishment of AHA aligns with Ms. Harrison's roll as Career Program 27 (Housing Management) functional chief representative. In this capacity, she provides leadership, guidance and career



Ms. Suzanne Harrison

program management to the over 700 worldwide housing careerist and has set the conditions for CP27 to lead the way in the Army's civilian workforce transformation. She has re-energizing the restructuring of the Army Civilian Training, Education and Development System program in the areas of training, experience and knowledge, skills and abilities for all contributing job series in the Housing program and Housing Career Intern program.

Through her years of dedicated service her efforts have contributed to what makes the Army Housing program the premier standard amongst our sister military service housing programs, who have often adopted Army initiatives as their own.

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Zeli R. King is the division integrator for the Installation Services Housing, OACSIM

Acronyms and Abbreviations	
AHA	Army Housing Academy
CP27	Career Program 27
OACSIM	Office of the Assistant Chief of Staff for Installation Management

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stormwater runoff.

Incorporation of LID BMPs into the Army's construction program is the methodology used to meet requirements of Section 438 of EISA; American Society of Heating, Refrigerating and Air-Conditioning Engineers Section 189.1; and Department of Defense and Army policy regarding stormwater management. The design objective of LID is to maintain or restore the predevelopment (pre-project) hydrology of the property with regard to the

temperature, rate, volume, and duration of flow.

Visit the site for further information about the Army LID program. It provides photographs diagrams, calculation and tables to assist your planning.

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