

Chapter 5: Green Infrastructure Practices

This Chapter presents planning and design of green infrastructure practices acceptable for runoff reduction. Green infrastructure planning includes measures for preservation of natural features of the site and reduction of proposed impervious cover. The green infrastructure techniques include practices that enable reductions in the calculated runoff from contributing areas and the required water quality volume.

Section 5.1 Planning for Green Infrastructure: Preservation of Natural Features and Conservation Design

The first step in planning for stormwater management using green infrastructure is to avoid or minimize land disturbance by preserving natural areas. Development should be strategically located based on the location of resource areas and physical conditions at a site. Also, in finalizing construction, soils must be restored to the original properties and according to the intended function of the proposed practices. Preservation of natural features includes techniques to foster the identification and preservation of natural areas that can be used in the protection of water, habitat and vegetative resources. Conservation design includes laying out the elements of a development project in such a way that the site design takes advantage of a site's natural features, preserves the more sensitive areas and identifies any site constraints and opportunities to prevent or reduce negative effects of development. The techniques covered in this section are listed in Table 5.1.

Table 5.1 Planning Practices for Preservation of Natural Features and Conservation	
Practice	Description
Preservation of Undisturbed Areas	Delineate and place into permanent conservation undisturbed forests, native vegetated areas, riparian corridors, wetlands, and natural terrain.
Preservation of Buffers	Define, delineate and preserve naturally vegetated buffers along perennial streams, rivers, shorelines and wetlands.
Reduction of Clearing and Grading	Limit clearing and grading to the minimum amount needed for roads, driveways, foundations, utilities and stormwater management facilities.
Locating Development in Less Sensitive Areas	Avoid sensitive resource areas such as floodplains, steep slopes, erodible soils, wetlands, mature forests and critical habitats by locating development to fit the terrain in areas that will create the least impact.
Open Space Design	Use clustering, conservation design or open space design to reduce impervious cover, preserve more open space and protect water resources.
Soil Restoration	Restore the original properties and porosity of the soil by deep till and amendment with compost to reduce the generation of runoff and enhance the runoff reduction performance of post construction practices.

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VM Jensen

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New York State Stormwater Management Design Manual, 2010 New York State Stormwater Management Design Manual Center for Watershed Protection, 2001 *Urban Storm Water Management* Hormoz Pazwash, 2011-04-28 Covering all elements of the storm water runoff process Urban Storm Water Management includes numerous examples and case studies to guide practitioners in the design maintenance and understanding of runoff systems erosion control systems and common design methods and misconceptions It covers storm water management in practice and in regulation **Water and Wastewater Engineering, Volume 1** Lawrence K. Wang, Mu-Hao Sung Wang, Nazih K. Shammas, 2024-04-16 WATER and WASTEWATER ENGINEERING The classic guide to water and wastewater engineering returns Water and wastewater engineering is a crucial branch of civil engineering dealing with water resources and with the challenges posed by water and wastewater Generations of engineers have developed techniques for purifying desalinating and transforming water and wastewater techniques which have only grown more critical as climate change and global population growth create new challenges and opportunities There has never been a more urgent need for a comprehensive guide to the management of water and its various engineering subdisciplines Water and Wastewater Engineering Hydraulics Hydrology and Management 4th edition offers key fundamentals in a practical context to engineers and engineering students Updated to address growing urbanization and industrialization with corresponding stress on water and wastewater systems this vital textbook has been fully revised to reflect the latest research and case studies This volume focuses primarily with hydrology and hydraulics along with chapters treating groundwater and surface water sources Readers of Hydraulics Hydrology and Management will also find Coverage of water supply water sources water distribution and more Detailed treatment of both sanitary sewer and urban stormwater drainage In depth analysis of infrastructure issues with respect to water resources pumping and handling This textbook is ideal for advanced students in civil environmental and chemical engineering departments as well as for early career engineers plant managers and urban and regional planners Clean Water and Sanitation Walter Leal Filho, Anabela Marisa Azul, Luciana Brandli, Amanda Lange Salvia, Tony Wall, 2022-07-09 The problems related to the process of industrialisation such as biodiversity depletion climate change and a worsening of health and living conditions especially but not only in developing countries intensify Therefore there is an increasing need to search for integrated solutions to make development more sustainable The United Nations has acknowledged the problem and approved the 2030 Agenda for Sustainable Development On 1st January 2016 the 17 Sustainable Development Goals SDGs of the Agenda officially came into force These goals cover the three dimensions of sustainable development economic growth social inclusion and environmental protection The Encyclopedia of the UN Sustainable Development Goals comprehensively addresses the SDGs in an integrated way It encompasses 17 volumes each devoted to one of the 17 SDGs This volume is dedicated to SDG 6 Ensure availability and sustainable management of water and sanitation for all Water and sanitation are fundamental to

human well being Integrated water resources management is essential to ensure availability and sustainable management of water and sanitation for all and to the realization of Sustainable Development Concretely the defined targets are Achieve universal and equitable access to safe and affordable drinking water for all Achieve access to adequate and equitable sanitation and hygiene for all and end open defecation paying special attention to the needs of women and girls and those in vulnerable situations Improve water quality by reducing pollution eliminating dumping and minimizing release of hazardous chemicals and materials halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally Substantially increase water use efficiency across all sectors and ensure sustainable withdrawals and supply of freshwater to address water scarcity and substantially reduce the number of people suffering from water scarcity Implement integrated water resources management at all levels including through transboundary cooperation as appropriate Protect and restore water related ecosystems including mountains forests wetlands rivers aquifers and lakes Expand international cooperation and capacity building support to developing countries in water and sanitation related activities and programmes including water harvesting desalination water efficiency wastewater treatment recycling and reuse technologies Support and strengthen the participation of local communities in improving Uwater and sanitation management Editorial Board Ulisses M Azeiteiro Anabela Marisa Azul Luciana Brandli Dominique Darmendrail Despo Fatta Kassinos Walter Leal Filho Susan Hegarty Amanda Lange Salvia Albert Llaus s Paula Duarte Lopes Javier Marug n Fernando Morgado Wilkister Nyaora Moturi Karel F Mulder Alesia Dedaa Ofori Sandra Ricart

NYS Route 17 Parksville, SH 5223 Liberty-county Line, Sullivan County ,2003

Construction Site Erosion and Sediment Controls Robert Pitt, Shirley E. Clark, Donald W. Lake, 2007 Contains critical design tools for practical implementation of techniques to control and abate run off and sediment from construction sites

Fort Drum Connector Route (I-81 to Fort Drum North Gate) New Construction, Towns of Pamela and Le Ray, Jefferson County ,2008

Vacant to Vibrant Sandra Albro, 2019-04-30 Vacant lots so often seen as neighborhood blight have the potential to be a key element of community revitalization As manufacturing cities reinvent themselves after decades of lost jobs and population abundant vacant land resources and interest in green infrastructure are expanding opportunities for community and environmental resilience Vacant to Vibrant explains how inexpensive green infrastructure projects can reduce stormwater runoff and pollution and provide neighborhood amenities especially in areas with little or no access to existing green space Sandra Albro offers practical insights through her experience leading the five year Vacant to Vibrant project which piloted the creation of green infrastructure networks in Gary Indiana Cleveland Ohio and Buffalo New York Vacant to Vibrant provides a point of comparison among the three cities as they adapt old systems to new green technology An overview of the larger economic and social dynamics in play throughout the Rust Belt region establishes context for the promise of green infrastructure Albro then offers lessons learned from the Vacant to Vibrant project including planning design community engagement implementation and maintenance successes and challenges An appendix shows

designs and plans that can be adapted to small vacant lots Landscape architects and other professionals whose work involves urban greening will learn new approaches for creating infrastructure networks and facilitating more equitable access to green space

Treatment Marshes for Runoff and Polishing Robert H. Kadlec, 2019-07-09 Treatment Marshes for Runoff and Polishing represents the most comprehensive and up date date resource for the design construction and operation of marsh treatment systems This new edition represents a complete rewrite of the surface flow sections of previous editions of Treatment Wetlands It is based on the performance hundreds of treatment marshes over the past 40 years Treatment Marshes focuses on urban and agricultural runoff river and lake water improvement and highly treated municipal effluents New information from the past dozen years is used to improve data interpretation and design concepts Topics included in this book are Diversity of marsh vegetation Analyses of the human use of treatment marshes New concepts of underground processes and functions Spectrum of marsh values spanning mitigation restoration enhancement and water quality improvement Improved methods for calculation of evapotranspiration and wetland water temperatures Hydraulics of surface and subsurface flows in marshes Analysis of long track records for deterministic and probabilistic behavior Consideration of integrated microbial and vegetative contaminant removals via mass balances Uptake and emission of gases Performance of urban and agricultural wetlands Design procedures for urban and agricultural wetlands Reduction of trace metals pesticides pharmaceuticals endocrine disruptors and trace organics Updated capital and O M economics and valuation of ancillary benefits An updated list of over 1900 references

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