

Drainage System Behind Retaining Wall

J. Paul Guyer, P.E., R.A.

Performance Comparison of Abutment and Retaining Wall Drainage Systems Junliang Tao, Robert Y. Liang, 2017
Control of water infiltration and providing adequate drainage are critical to the performance of retaining walls and abutment walls. Current Ohio Department of Transportation (ODOT) practice for drainage of structures specifies the use of a two-foot porous backfill with filter fabric, which has a long performance history. ODOT is seeking alternative drainage systems that are more cost- and time-effective, durable, and at the same time, have comparable or superior drainage capability compared to current practice. A prefabricated composite drainage system (PCDS) is proposed in this research as an alternative structure drainage system. The current state of practice of drainage systems for retaining wall and bridge abutment structures is evaluated through a survey of county agencies in Ohio. Commercially available PCDS products as well as specifications for PCDS used by other state DOTs are also reviewed and synthesized. Laboratory testing and evaluation of select PCDS products are conducted to improve the understanding of their properties. It is found that tested values for some properties of some products do not match those listed by the manufacturers. Recommendations on the selection of proper standard testing methods and suggestions on the selection of factors of safety in design are discussed. Field performance of the PCDS system and the traditional drainage system are evaluated with in situ instruments including piezometers, tiltmeters and flumes. The data analysis suggests that the PCDS has comparable drainage capability to the traditional system. Field observation and feedback from the contractor reveal that installation of PCDS systems are less labor-intensive and more time-effective. Cost analysis from ODOT historical bidding data and the actual cost at the tested sites demonstrates that a PCDS system costs 40% less than the traditional process. Based on the findings, draft specifications were developed to specify the material and construction requirements for a PCDS system.

Handbook of Slope Stabilisation J. A. R. Ortigao, Alberto Sayao, 2013-03-09 This book is aimed at the practising engineer and engineering geologist working in tropical environments, where landslides are mainly triggered by rain fall. This book is based on a similar work published in 1999 in Portuguese, which became the Rio de Janeiro Slope Manual. This book is an engineering guide for the design of slopes and stabilisation works in rocks and residual soils. It evolves from the cumulative experience gathered by several engineers and geologists who faced severe slope problems. The authors' experience throughout Central and South America (Costa Rica, Argentina, Bolivia, Peru, Ecuador and Venezuela) and the Far East,

especially Hong Kong and Malaysia, was used as a foundation for writing this book. The work also benefits enormously from the time spent in Hong Kong in 1996 and 1997 by the first editor on sabbatical at the City University of Hong Kong, and the discussions he had with many colleagues from the Geotechnical Engineering Office (GEO) of the Hong Kong Government, especially Dr. A. Malone, Mr. w.K. Pun, Dr. A. Li, Mr. K. Ho, and Mr. y.c. Chan among others.

The Homeowner's Guide to Drainage Control and Retaining Walls Jonathan Erickson,1989-01-01

Geocomposite Drainage Systems Robert M. Koerner,Bao-Lin Hwu,1989

The Homeowner's Guide to Drainage Control and Retaining Walls Jonathan S. Erickson,1989-01-01

Integrated Drainage Systems Planning and Design for Municipal Engineers Patrick Ssempeera,2023-05-05 Urban water management has to take an integrated approach that prioritizes sustainable drainage systems (SuDS) over gray infrastructure. This book elaborates on the planning and evaluation of pipework drainage systems with a focus on modern-day constraints to deliver a solution that favors sustainability as the overarching goal. The book includes a technical section on design of gray and green infrastructure, considering the total lifecycle costs of drainage systems. Advanced computer simulation techniques are discussed after covering the derivation of both standard and empirical equations for appropriate hydrology and hydraulics. The book provides an incorporation of reliability analyses for both green and gray infrastructure starting with techniques for forecasting flows, hydraulic performance, and lifecycle costs. The work also involves 3-D modeling, geospatial and big data analysis, and how these techniques are applied into city management—particularly beneficial to municipal engineers who are increasingly becoming involved in mapping the underground. Soil mechanics and subsurface drainage systems are analyzed and structural aspects of sewers are included. Finally, soil behavior in shear, retaining wall structures, and tunneling is briefly featured in the book. This book will be of interest to (under)graduate and postgraduate engineering students, drainage engineers, urban planners, architects, water engineers, developers, construction contractors, and municipal engineers.

Review of Drainage Behind Retaining Walls Graham West,Great Britain. Highways Agency. Quality Services (Civil Engineering),Transport Research Laboratory (Great Britain),2001

An Introduction to Flood and Retaining Walls J. Paul Guyer, P.E., R.A.,2018-09-10 Introductory technical guidance for civil and geotechnical engineers and construction managers interested in design, engineering and construction of flood and retaining walls. Here is what is discussed: 1. ALTERNATE TYPES OF RETAINING WALLS 2. DESIGN AND CONSTRUCTION DETAILS AND CAUSES OF UNSATISFACTORY PERFORMANCE OF FLOOD WALLS 3. FORCES ON FLOOD WALLS DUE TO EARTH PRESSURE 4. FLOOD WALL FOUNDATION ANALYSIS 5. GENERAL CONSIDERATIONS FOR FLOOD AND RETAINING WALLS 6. GRAVITY AND CANTILEVER FLOOD WALLS 7. SPECIAL CONSIDERATIONS FOR FLOOD WALLS 8. STRUCTURAL STABILITY OF FLOOD WALLS 9. WATER FORCES ON FLOOD WALLS..

The Influence of Drainage Conditions on the Pressures Developed Behind Retaining Walls Harold G. Clapham,1953

Builder's Guide to Drainage and Retaining Walls Max Schwartz,Hamid Azizi,2007-01-01 Establishing adequate drainage is a critical first step in many of today's construction projects. And often, retaining walls must be used to provide a sufficiently level grade. These two topics - drainage and retaining walls - necessarily go hand-in-hand. This unique reference provides a comprehensive introduction to doing both right.

Principles of Home Inspection: Systems & standards Carson Dunlop,2003 This introductory overview of the major home systems gives students a solid foundation for beginning a career in home inspection. This comprehensive text gets students out into the field quickly while serving as a springboard for the 13 advanced electives in the Principles line. Systems & Standards focuses on system and component problems, their practical implications, and inspections strategies for finding them. No other single volume offers both the breadth and depth of this introduction.

Foundation Engineering Analysis and Design An-Bin Huang,Hai-Sui Yu,2017-12-06 One of the core roles of a practising geotechnical engineer is to analyse and design foundations. This textbook for advanced undergraduates and graduate students covers the analysis, design and construction of shallow and deep foundations and retaining structures as well as the stability analysis and mitigation of slopes. It progressively introduces critical state soil mechanics and plasticity theories such as plastic limit analysis and cavity expansion theories before leading into the theories of foundation, lateral earth pressure and slope stability analysis. On the engineering side, the book introduces construction and testing methods used in current practice. Throughout it emphasizes the connection between theory and practice. It prepares readers for the more sophisticated non-linear elastic-plastic analysis in foundation engineering which is commonly used in engineering practice, and serves too as a reference book for practising engineers. A companion website provides a series of Excel spreadsheet programs to cover all examples included in the book, and PowerPoint lecture slides and a solutions manual for lecturers. Using Excel, the relationships between the input parameters and the design and analysis results can be seen. Numerical values of complex equations can be calculated quickly. non-linearity and optimization can be brought in more easily to employ functioned numerical methods. And sophisticated methods can be seen in practice, such as p-y curve for laterally loaded piles and flexible retaining structures, and methods of slices for slope stability analysis.

Soil Mechanics and Foundations Muniram Budhu,2010-12-21 Discover the principles that support the practice! With its simplicity in presentation, this text makes the difficult concepts of soil mechanics and foundations much easier to understand. The author explains basic concepts and fundamental principles in the context of basic mechanics, physics, and mathematics. From Practical Situations and Essential Points to Practical Examples, this text is packed with helpful hints and examples that make the material crystal clear.

An Introduction to Flood Walls for Professional Engineers J. Paul Guyer, P.E., R.A.,2023-10-08 Introductory technical guidance for civil engineers and other professional engineers and construction managers interested in design and construction of flood walls. Here is what is discussed: 1. FOUNDATION PREPARATION, 2. CONCRETE MATERIALS, 3. CONSTRUCTABILITY, 4. JOINTS, 5. SOIL BACKFILL, 6. DRAINAGE, 7. CONSTRUCTION CONSIDERATIONS, 8. CAUSES OF UNSATISFACTORY PERFORMANCE.

Smith's Elements of Soil Mechanics Ian Smith,2013-02-13 This core undergraduate textbook for civil engineers is the first to cover the fundamental changes in the ethos of geotechnical design advocated in the now published Eurocode 7. This code will be fully adopted across Europe by 2010 and its implementation will mean a radical shift to limit state design. Ian Smith makes understanding this new approach to geotechnical design less daunting to the student with clear explanatory text, detailed illustrations and several worked examples, covering a range of topics including slope stability, retaining walls and shallow and deep foundations. Downloadable spreadsheets help to illustrate how the new Eurocode is applied and the book's website also gives the worked solutions to self-test questions at the end of each chapter. Now in its 8th edition, this well-established textbook has been updated and re-designed with improved page layout and illustrations making it the essential user-friendly introduction to soil mechanics and geotechnical design to Eurocode 7. To see the author's webpage go to: <http://sbe.napier.ac.uk/esm/>

Mid-Harlem Line Third Track Project, Section 4(f) Report ,2000

Oscar Faber's Reinforced Concrete John G Faber,F.H. Mead,1977-11-24 This E. & F. N. Spon title is now distributed by Routledge in the US and Canada. It contains detailed coverage of the basic theory of reinforced and prestressed concrete, and demonstrates a wide range of practical applications. Examples and diagrams are used extensively throughout for ease of understanding.

Proceedings of the 16th International Conference on Soil Mechanics and Geotechnical Engineering The Organizing Committee of the 16th ICSMGE,2005-09-12 The 16th ICSMGE responds to the needs of the engineering and construction community, promoting dialog and exchange between academia and practice in various aspects of soil mechanics and geotechnical engineering. This is reflected in the central theme of the conference 'Geotechnology in Harmony with the Global Environment'. The proceedings of the conference are of great interest for geo-engineers and researchers in soil mechanics and geotechnical engineering. Volume 1 contains 5 plenary session lectures, the Terzaghi Oration, Heritage Lecture, and 3 papers presented in the major project session. Volumes 2, 3, and 4 contain papers with the following topics: Soil mechanics in general; Infrastructure and mobility; Environmental issues of geotechnical engineering; Enhancing natural disaster reduction systems; Professional practice and education. Volume 5 contains the report of practitioner/academic forum, 20 general reports, a summary of the sessions and workshops held during the conference.

Comp Aussie Backyard and Home Improve Murdoch Books Pty Limited,2007

An Introduction to Design and Construction Details and Causes of Unsatisfactory Performance of Flood Walls

,2018-09-07 Introductory technical guidance for civil and geotechnical engineers interested in design and construction of flood walls. Here is what is discussed: 1. FOUNDATION PREPARATION 2. CONCRETE MATERIALS 3. CONSTRUCTIBILITY 4. JOINTS 5. SOIL BACKFILL 6. DRAINAGE 7. CONSTRUCTION CONSIDERATIONS 8. CAUSES OF UNSATISFACTORY PERFORMANCE.

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