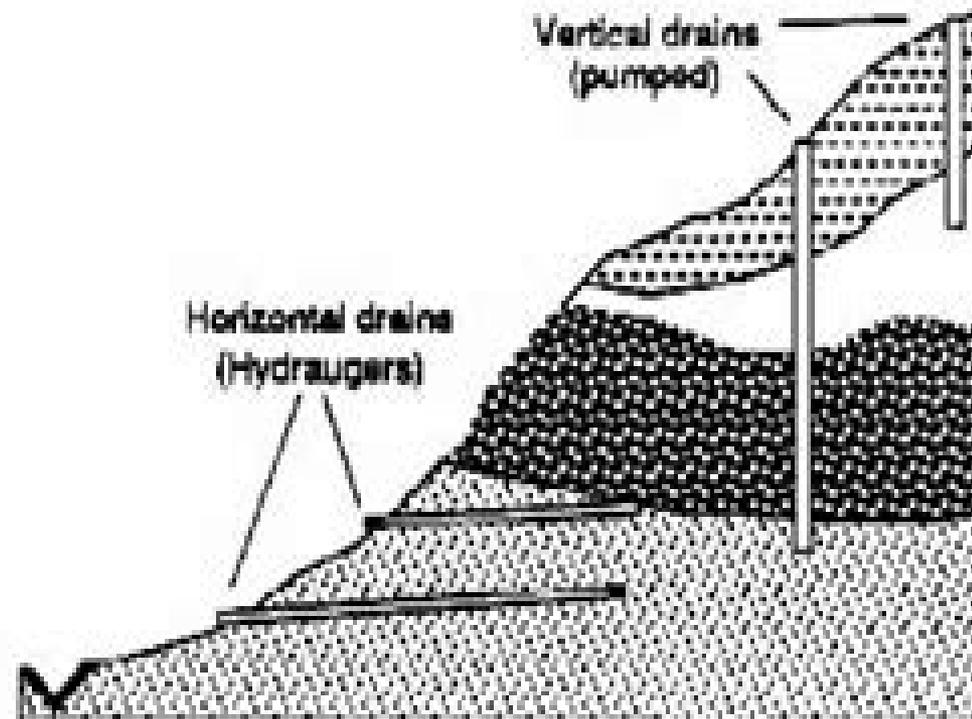


FIGURE 3: HORIZONTAL AND VERTICAL DRAINS INSTALLED FOR SURFACE DRAINAGE CONTROL (modified after Gedney and Heber, 1978)



A. Horizontal and vertical drains to lower groundwater in natural slope

Subsurface Drainage For Slope Stabilization

**Lee W. Abramson, Thomas S. Lee, Sunil
Sharma, Glenn M. Boyce**

Subsurface Drainage For Slope Stabilization:

Subsurface Drainage for Slope Stabilization Kevin Forrester,2001-01-01 **Slope Stability and Stabilization**
Methods Lee W. Abramson,Thomas S. Lee,Sunil Sharma,Glenn M. Boyce,2001-11-01 A major revision of the comprehensive text reference Written by world leading geotechnical engineers who share almost 100 years of combined experience Slope Stability and Stabilization Second Edition assembles the background information theory analytical methods design and construction approaches and practical examples necessary to carry out a complete slope stability project Retaining the best features of the previous edition this new book has been completely updated to address the latest trends and methodology in the field Features include All new chapters on shallow failures and stability of landfill slopes New material on probabilistic stability analysis cost analysis of stabilization alternatives and state of the art techniques in time domain reflectometry to help engineers plan and model new designs Tested and FHA approved procedures for the geotechnical stage of highway tunnel and bridge projects Sound guidance for geotechnical stage design and planning for virtually all types of construction projects Slope Stability and Stabilization Second Edition is filled with current and comprehensive information making it one of the best resources available on the subject and an essential reference for today s and tomorrow s professionals in geology geotechnical engineering soil science and landscape architecture Handbook of Slope Stabilisation J. A. R. Ortigao,2004-04 This book is an engineering guide for design of slopes and stabilisation works in rocks and residual soils It is tailored to the needs of practising geotechnical engineers and engineering geologists Engineering and engineering geology students will find it quite useful and a practical course guide It can be used as textbook in courses on landslides and slope stabilisation The purpose of this book is to present a concise documentation on how to design slopes and how to select a slope stabilisation method The authors are scholars and professional engineers with many years of international experience in slope stabilization works in South and Central America and the Far East *Numerical Simulation of the Performance of Horizontal Drains for Subsurface Slope Stabilization* Marie Leony Pathmanathan,2009 **Landslides and Engineered Slopes. From the Past to the Future, Two Volumes + CD-ROM** Zuyu Chen,Jian-Min Zhang,Ken Ho,Fa-Quan Wu,Zhong-Kui Li,2008-06-11 270 Expert contributions on aspects of landslide hazards encompassing geological modeling and soil and rock mechanics landslide processes causes and effects and damage avoidance and limitation strategies Reference source for academics and professionals in geo mechanical and geo technical engineering and others involved with research des **Landslide Science and Practice** Claudio Margottini,Paolo Canuti,Kyoji Sassa,2013-08-18 This book contains peer reviewed papers from the Second World Landslide Forum organised by the International Consortium on Landslides ICL that took place in September 2011 The entire material from the conference has been split into seven volumes this one is the sixth
1 Landslide Inventory and Susceptibility and Hazard Zoning 2 Early Warning Instrumentation and Monitoring 3 Spatial Analysis and Modelling 4 Global Environmental Change 5 Complex Environment 6 Risk Assessment Management and

Mitigation 7 Social and Economic Impact and Policies Cost-effective and Sustainable Road Slope Stabilization and Erosion Control Laura Fay,Michelle Akin,Xianming Shi,National Cooperative Highway Research Program,2012 In the United States it is estimated that 75 percent of all roads are low volume roads maintained by some 35 000 local agencies Low volume roads often omit surface slope protection and this can lead to slope failure erosion and maintenance safety and ecological issues This report presents information on cost effective and sustainable road slope stabilization techniques with a focus on shallow or near surface slope stabilization and related erosion control methods used on low volume roads To fully address this topic planning and site investigation are discussed as well as erosion control techniques soil bioengineering and biotechnical techniques mechanical stabilization and earthwork techniques Information presented in this report was obtained through an extensive literature review and from survey and interview responses From the survey responses 30 individuals were interviewed based on the information they made available in the survey A total of 25 interviews were conducted over the phone and in two cases written responses were received Preface **Rock Slope Stability Analysis** Gian Paolo Giani,1992-01-01 Deals with the methods of assessing the stability of rock slopes and the techniques of improving the stability conditions of natural and artificial slopes which are at risk It also describes survey and measurement methods to model the behaviour of rock masses Soil Improvement and Ground Modification Methods Peter G. Nicholson,2014-08-29 Written by an author with more than 25 years of field and academic experience Soil Improvement and Ground Modification Methods explains ground improvement technologies for converting marginal soil into soil that will support all types of structures Soil improvement is the alteration of any property of a soil to improve its engineering performance Some sort of soil improvement must happen on every construction site This combined with rapid urbanization and the industrial growth presents a huge dilemma to providing a solid structure at a competitive price The perfect guide for new or practicing engineers this reference covers projects involving soil stabilization and soil admixtures including utilization of industrial waste and by products commercially available soil admixtures conventional soil improvement techniques and state of the art testing methods Conventional soil improvement techniques and state of the art testing methods Methods for mitigating or removing the risk of liquefaction in the event of major vibrations Structural elements for stabilization of new or existing construction industrial waste by products commercially available soil Innovative techniques for drainage filtration dewatering stabilization of waste and contaminant control and removal **Stability and Performance of Slopes and Embankments II** Raymond Bolton Seed,Ross W. Boulanger,1992 Landslides Under Static and Dynamic Conditions David K. Keefer,Carlton L. Ho,American Society of Civil Engineers. Geotechnical Engineering Division,1995 GSP 52 contains six papers on the static and dynamic behavior of landslides presented at sessions of the ASCE National Convention held in San Diego California October 23 27 1995 Soil and Slope Stabilization and Moisture and Density Determination Developments ,1962 **Annotated Bibliography on Rock Slope Stability** James Victor Hamel,1969 Slope Stabilization Using

"geoweb Confinement System" John J. Hughes,1994 *Maryland highway drainage study* ,1974 **Landslides, Analysis and Control** National Research Council (U.S.). Transportation Research Board,Robert L. Schuster,Raymond J. Krizek,1978
This volume brings together from a wide range of experience such information as may be useful in recognizing avoiding controlling designing for and correcting movement Current geologic concepts and engineering principles and techniques are introduced and both the analysis and control of soil and rock slopes are addressed New methods of stability analysis and the use of computer techniques in implementing these methods are included Rock slope engineering and the selecting of shear strength parameters for slope stability analyses are covered in separate chapters *Soil Design Protocols for Landscape Architects and Contractors* Timothy A. Craul,Phillip J. Craul,2006-09-11 This guide to soil design and specifications offers landscape architects and other designers the information they need to ensure the success of designs over the long term
 Standards for Soil Erosion and Seidment Control in New Jersey New Jersey. State Soil Conservation Committee,1990 **Handbook of Culvert and Drainage Practice** Armco Drainage Products Association,1930
 Restoration of Problem Soil Materials at Corps of Engineers Construction Sites Charles R. Lee,1985

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