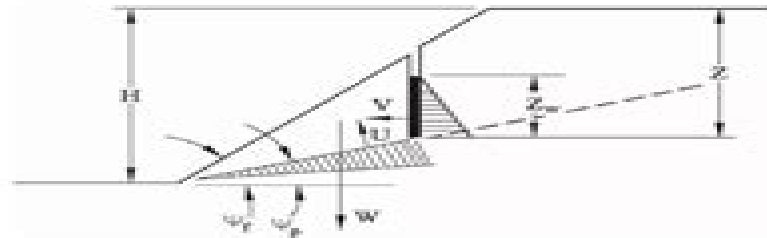


The reinforcement load is applied in the stability analysis either as a single stabilizing element or a series of reinforcing elements to achieve the desired factor of safety. The length of the bolt or cable is dependent on the bond strength (adhesion to the rock) and the discontinuity spacing that forms the deepest part of the block. Tendon lengths can range from 2 to 30 m (6 to 100 ft); however, in the transportation industry, the tendon length rarely exceeds 10 m (30 ft). The detailed requirements for site investigation and analysis of rock cuts are provided in FHWA HI-99-007 *Rock Slopes Reference Manual* (Munfakh, Wyllie, and Mah 1998).



Where:

V = Water force in tension crack

U = Uplift water force on base of sliding block

W = Weight of sliding block

ψ_f = Angle of slope face from the horizontal

ψ_w = Angle of the sliding plane from the horizontal

Z = Height measured from bottom of the tension crack to the crest of the slope

Z_w = Height of water column in tension crack

H = Overall height of the slope

Figure 43. Illustration. Example slope analysis diagram (modified from Hock and Bray 1981).

Rock anchors are usually installed in a grid pattern, where each anchor is the same length and set at a predetermined distance from the surrounding bolts. Following a set pattern can improve the structural stability of an entire rock face, especially for weathered or highly fractured rock. On competent rock masses with large block sizes, engineers typically identify “key blocks” (i.e., blocks of rock that control support for surrounding blocks), then design a bolting pattern around them that makes it more difficult for the surrounding blocks to move. Designing a key block pattern requires engineers to map the three-dimensional fracture orientations, but can decrease the number of rock bolts required to stabilize a slope.

In both tensioned and untensioned anchors, the bearing plate and hex nut are used to distribute the load of the anchor to the rock face; a beveled washer is used to apply the load evenly when the bolt is angled in relation to the rock face. In rock masses with few discontinuities, the plate can be removed and the tendon (bar or cable) cut to allow for the installation of a grout cover or plug. This method is highly contingent on the quality of rock and stability of the rock mass.

Fhwa Rock Slope Reference Manual

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



Fhwa Rock Slope Reference Manual:

Slope Stability Reference Guide for National Forests in the United States, 1994 **FHWA Research and Development Implementation Catalog** United States. Federal Highway Administration. Implementation Division, 1980

Rock Slope Engineering Duncan C. Wyllie, Chris Mah, 2017-12-21 The stability of rock slopes is an important issue in both civil and mining engineering On civil projects rock cuts must be safe from rock falls and large scale slope instability during both construction and operation In open pit mining where slope heights can be many hundreds of meters the economics of the operation are closely related to the steepest stable slope angle that can be mined This extensively updated version of the classic text Rock Slope Engineering by Hoek and Bray deals comprehensively with the investigation design and operation of rock slopes Investigation methods include the collection and interpretation of geological and groundwater data and determination of rock strength properties including the Hoek Brown rock mass strength criterion Slope design methods include the theoretical basis for the design of plane wedge circular and toppling failures and design charts are provided to enable rapid checks of stability to be carried out New material contained in this book includes the latest developments in earthquake engineering related to slope stability probabilistic analysis numerical analysis blasting slope movement monitoring and stabilization methods The types of stabilization include rock anchors shotcrete drainage and scaling as well as rock fall protecting methods involving barriers ditches nets and sheds Rock Slopes Civil and Mining Engineering contains both worked examples illustrating data interpretation and design methods and chapters on civil and mining case studies The case studies demonstrate the application of design methods to the construction of stable slopes in a wide variety of geological conditions The book provides over 300 carefully selected references for those who wish to study the subject in greater detail It also includes an introduction by Dr Evert Hoek FHWA research, development and technology implementation catalog United States. Federal Highway Administration. Implementation Division, 198? **FHWA Research, Development and Technology Implementation Catalog** United States. Federal Highway Administration. Implementation Division, 1985

FHWA Research, Development, and Technology Implementation Catalog United States. Federal Highway Administration. Office of Implementation, 1984 NHI Catalog National Highway Institute (U.S.), 2009 NHI Training Catalog National Highway Institute (U.S.), 2006 **FHWA Publications** United States. Federal Highway Administration, 1984 **An Introduction to Geotechnical Considerations in Highway Pavement for Professional Engineers** J. Paul Guyer, P.E., R.A., 2022-02-16 Introductory technical guidance for civil engineers and construction managers interested in geotechnical considerations in the design and construction of street and highway pavements Here is what is discussed 1 INTRODUCTION 2 GEOTECHNICAL FACTORS IN PAVEMENT DESIGN

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