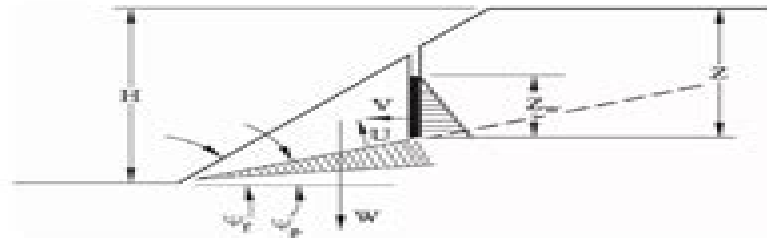


The reinforcement load is applied in the stability analysis either as a single stabilizing element or a series of reinforcing elements to achieve the desired factor of safety. The length of the bolt or cable is dependent on the bond strength (adhesion to the rock) and the discontinuity spacing that forms 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

$\psi_f$  = Angle of slope face from the horizontal

$\psi_p$  = 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.

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**FHWA Research, Development and Technology Implementation Catalog** United States. Federal Highway Administration. Implementation Division,1984 **SRIM Index** ,1980 **Government Reports Annual Index** ,1992

**Geotechnical Manual** Illinois. Department of Transportation. Bureau of Materials and Physical Research,1999 Represents current policies and practices of the Illinois Dept of Transportation in the geotechnical aspects of highway engineering Special Report National Research Council (U.S.). Transportation Research Board,1974 **Landslides** A. Keith Turner,Robert L. Schuster,1996 A guide to using the Public Record Office PRO in England for English or Welsh genealogical research providing an introduction to PRO record classes of interest to North American researchers and identifying PRO records available in North American institutions Includes advice for finding sources of emigration and immigration records with appendices on local record offices in England and Wales and useful addresses Annotation copyright by Book News Inc Portland OR Shored Mechanically Stabilized Earth (SMSE) Wall Systems Design Guidelines Kimberly Finke Morrison,2006 As a Federal Highway Administration design reference for highway projects this report was prepared to enable the engineer to identify and evaluate potential applications of shored mechanically stabilized earth SMSE walls Included in this design guideline are a literature review on similar construction and the results and interpretation of field scale testing centrifuge modeling and numerical modeling of an SMSE wall system Results of the centrifuge modeling and

field scale testing show that reduction of the reinforcement length to as little as 25 percent of the wall height  $0.25H$  provides sufficient wall stability even under a considerably high degree of surcharge loading Using the results of the modeling and field testing research this design guideline recommends a minimum reinforcement length equivalent to as little as 30 percent of the wall height  $0.3H$  for the MSE wall component provided that the MSE reinforcement length is greater than 1.5 m The benefit of attaching reinforcement to the shoring wall is found to be small and is generally not recommended except by way of the upper two layers of reinforcement If possible these layers of reinforcement should overlap the shoring wall and have a total length of  $0.6H$  If this is not possible then these layers should be attached to the shoring wall Internal design requirements of the MSE wall component for an SMSE wall system differ from that of a traditional MSE wall Equations presented in this design guideline have been developed specifically to address these requirements The benefits of increased retaining abilities provided by the shoring wall such as reduction in lateral load acting on the MSE wall component and contribution to global stability are considered in the design process *Government Reports Announcements & Index*, 1980

Bulletin - Association of Engineering Geologists Association of Engineering Geologists, 1989 **Development of a Rockfall Hazard Rating Matrix for the State of Ohio** Abdul Shakoor, Martin J. Woodard, 2005 **Colorado Rockfall Simulation Program** Timothy J. Pfeiffer, 1993 This rockfall computer program which simulates rocks tumbling down a slope predicts the statistical distribution of speed and bounce height and can be used for locating and designing rockfall mitigation The model takes into account slope profile rebound and friction characteristics of the slope and spinning energy of the rocks Spherical cylindrical and disk shaped rocks can be simulated At each impact the slope angle is randomly varied from the nominal value input by the user within the limit set by the maximum probable variation in the slope Version 3.0 of the Colorado Rockfall Simulation Program is similar to version 2.1 in terms of the operating environment but additional statistical output has been added and the ability to use metric units has also been added This manual reflects version 3.0 input and output The model is recommended as a tool for geologists and engineers responsible for analyzing and mitigating rockfall hazards Technical report documentation page *Engineering Geology and Geotechnical Engineering*, **The Dynamics, Kinematics, and Geomorphic Evolution of the San Diego, California Coastline** Benjamin Todd Benumof, 1999 **Rockfall Modeling and Attenuator Testing**, 1989

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