

# EXCAVATION SHORING DESIGN GUIDE

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Editor: NCSEA Publication Committee



# Design Guide Shoring

**Kimberly Finke Morrison**



## Design Guide Shoring:

**Excavation Shoring Design Guide** Bryan Cortnik, 2021-09-20      **Guide Design Specification for Bridge Temporary Works** American Association of State Highway and Transportation Officials, 1995      **Guide to Formwork for Concrete** American Concrete Institute, 2005      **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      Trench Rescue: Principles and Practice to NFPA 1006 and 1670 Ron Zawlocki, Craig Dashner, 2021-09-10 The fourth edition of Trench Rescue Principles and Practice to NFPA 1006 and 1670 meets and exceeds the job performance requirements in Chapter 7 of NFPA 1006 Standard for Technical Rescuer Professional Qualifications and Chapter 11 of NFPA 1670 Standard on Operations and Training for Technical Search and Rescue Incidents The Fourth Edition provides a comprehensive introduction to trench rescue focusing on the knowledge and skills required to effectively perform trench rescues in a number of environments The resource is divided by the three levels of rescuer awareness operations and technician      Guide Design Specification for Bridge Temporary Works, 1993      FHWA Road Tunnel Design Guidelines Dots Oyenuka, 2004      Advanced Concrete Design Mr. Rohit Manglik, 2024-09-24 This book offers a detailed exploration of advanced concrete design focusing on key concepts methodologies and practical implementations relevant to modern engineering and technology practices      *Development of Draft Construction Safety Standards for Excavations* Felix Y. Yokel, Ronald L. Stanevich, 1983      **Public Roads**, 2010      **Specifications for Structural Concrete, ACI 301-05, with**

**Selected ACI References** American Concrete Institute,2005      Bridge Planning and Design Manual California. Division of Highways,1925      **Design Guidelines for Creating Defensible Space** Oscar Newman,1976      **ACI Manual of Concrete Practice** American Concrete Institute,2002      **Construction Planning, Equipment, and Methods** Robert Leroy Peurifoy,Cliff J. Schexnayder,Aviad Shapira,2006 1 Machines Make It Possible 2 Fundamental Concepts of Equipment Economics 3 Planning for Earthwork Construction 4 Soil and Rock 5 Compaction and Stabilization Equipment 6 Machine Equipment Power Requirements 7 Dozers 8 Scrapers 9 Excavators 10 Trucks and Hauling Equipment 11 Finishing

*Concrete Designers' Manual* George A. Hool,Charles Smith Whitney,1926      **Masonry Design Manual** Masonry Industry Advancement Committee,1973      **Building Structural Design Handbook** Richard White,Charles G. Salmon,1987-05-08 This book provides insight into the design analysis and construction of a variety of building types

**Temporary Structures in Construction, Third Edition** Robert Ratay,2012-05-06 The most complete and current guide to temporary structures in design and construction With significant revisions updates and new chapters Temporary Structures in Construction Third Edition presents authoritative information on professional practice codes standards design erection maintenance and failures of temporary support and access structures used in construction New developments and advancing technologies are discussed throughout the book and new chapters on construction and environmental loads cranes and lessons learned from temporary structure failures have been added Improve the quality safety speed and financial success of construction projects with help from this practical resource Inside 26 expert contributors cover Professional and business practices Standards codes and regulations Construction and environmental loads Construction site safety Legal aspects Cofferdams Earth retaining structures Diaphragm slurry walls Construction dewatering Underground tunneling supports Underpinning Roadway decking Construction ramps runways and platforms Scaffolding Shoring falsework Concrete formwork Bracing and guying for stability Bridge falsework Temporary structures in repair and restoration Cranes Protection of site adjacent areas and utilities Failure of temporary structures in construction      **Transactions of the American Society of Civil Engineers** American Society of Civil Engineers,1923 Vols 29 30 contain papers of the International Engineering Congress Chicago 1893 v 54 pts A F papers of the International Engineering Congress St Louis 1904

## Unveiling the Magic of Words: A Review of "**Design Guide Shoring**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Design Guide Shoring**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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