

STATIC ANALYSIS & DESIGN OF PIPE ANCHOR BLOCK FOUNDATION

DESIGN OF PIPE ANCHOR BLOCK

FOUNDATION GEOMETRY & SKETCH

Length of the Pipe Block
 Width of the Pipe Block
 Length of the Pipe Block Foundation
 Width of the Pipe Block Foundation
 Depth of the foundation block below H.P.P
 Height of Foundation block above H.P.P
 Height of the Pipe
 Depth of Raft
 Concrete , Fck
 Reinforcement grade

L =	1800	mm
B =	1800	mm
L =	3000	mm
B =	3000	mm
=	2000	mm
=	500	mm
h =	1500	mm (Avg fit assumed)
=	800	mm
	30	N/mm ²
	500	N/mm ²



WEIGHTS OF FOUNDATION & PIPE

Weight of concrete foundation (W_f)
 (Pipe 1.2m dia. Detected from conc. wt)
 = $(1.8 \times 1.8 \times 1.8) \times 25$ - Pipe 1.2Dia) = raft weight
 = 9.7 kN

Operating weight of Pipe Anchor Block, (W_o) = 240.00 kN

Total weight of Foundation system, P_o = 9.7 + 240

= 249.70 kN

Pipe Lever arm for moment = 0.65 m

Piping Horizontal Loads (input from Piping Stress)

F_z = 260 kN

F_x = 25 kN

Lateral Force due to thrust F_z = 260 kN

(Piping load

transverse direction of the block)

Moment due to lateral Force M_{x1} = 260 × 0.65

= 169.00 kNm

Longitudinal Force due to unbalanced force F_x = 25 kN

M_{x1} = 25 × 0.65

= 16.25 kNm

Anchor Block Asce Manual

United States. Bureau of Reclamation

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the text 'United States. Bureau of Reclamation'.

Anchor Block Asce Manual:

ASCE Manuals and Reports on Engineering Practice ,2001 The Civil Engineering Handbook W.F. Chen,J.Y. Richard Liew,2002-08-29 Providing extensive coverage of all major areas of civil engineering the second edition of this award winning handbook features contributions from leading professionals and academicians and is packed with formulae data tables and definitions vignettes on topics of recent interest and additional sources of information It includes a wealth of material in areas such as coastal engineering polymeric materials computer methods shear stresses in beams and pavement performance evaluation Its wide range of information makes it an essential resource for anyone working in civil structural or environmental engineering Air Force Manual United States. Department of the Air Force,1957 Anchorage Zone Reinforcement for Post-tensioned Concrete Girders John Edward Breen,1994 Directory of Committee Memberships of the National Bureau of Standards Staff on Engineering Standards Committees United States. National Bureau of Standards. Office of Engineering and Information Processing Standards,1975 Evaluation of Anchor Wall Systems' Landmark Reinforced Soil Wall System with T.C. Mirafi's Miragrid and Miratex Geogrid Reinforcement Highway Innovative Technology Evaluation Center (U.S.),2003-10-23 This report describes a HITEC evaluation designed to determine the basic capability and limitations of the Landmark Mirafi System for use as a technically viable precast MSE retaining wall system The evaluation was conducted based on the material design construction performance and quality assurance information outlined in the HITEC Protocol **Building Code Requirements for Masonry Structures (ACI 530-05/ASCE 5-05/TMS 402-05) ; Specification for Masonry Structures (ACI 530.1-05/ASCE 6-05/TMS 602-05) ; Commentary on Building Code Requirements for Masonry Structures (ACI 530-05/ASCE 5-05/TMS 402-05) ; Commentary on Specification for Masonry Structures (ACI 530.1-05/ASCE 6-05/TMS 602-05).** ,2005 Technical Record of Design and Construction United States. Bureau of Reclamation,1970 **Senator Wash Dam, Dikes, and Pumping-generating Plant** United States. Bureau of Reclamation,1970 **Anchorage zones of prestressed concrete members state of the art report** FIB - International Federation for Structural Concrete,1987-04-01 **ACI Manual of Concrete Practice** American Concrete Institute,2003 Reclamation Manual: Design and construction, pt. 2. Engineering design: Design supplement no. 2: Treatise on dams; Design supplement no. 3: Canals and related structures; Design supplement no. 4: Power systems; Design supplement no. 5: Field installation procedures; Design supplement no. 7: Valves, gates, and steel conduits; Design supplement no. 8: Miscellaneous mechanical equipment and facilities; Design supplement no. 9: Buildings; Design supplement no. 10: Transmission structures; Design supplement no. 11: Railroads, highways, and camp facilities United States. Bureau of Reclamation,1951 Civil Engineering ASCE. ,1965 Includes sections Recent books and Current periodical literature PPI PE Structural Reference Manual, 10th Edition - Complete Review for the NCEES PE Structural Engineering (SE) Exam Alan Williams,2021-09-21 The NCEES SE Exam is Open Book You Will Want to Bring This Book Into

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Pereira,2021-09-20 The design of a hydroelectric plant along with an installation of transformation of potential energy of water into electricity is an activity that is not standardized Each new project is an interesting engineering challenge and teams need to work in different conditions of each site integrated to design a functional economical and environmentally sustainable project The development of a project here understood as the plant itself the reservoir the maneuver substation and the associated transmission line is a multidisciplinary activity that encompasses areas of civil engineering geology mechanical and electrical engineering environmental engineering economic engineering construction and assembly and the engineering of operation and maintenance of civil works and electromechanical equipment The book is organized to facilitate the performance of professional life of the new generations of engineers who will join the Electric Sector or in other sectors that demand the knowledge regarding hydraulic structures The book is a simple manual providing the practical step by step procedure for designing hydroelectric plants including legislation with a general view of the project *Proceedings* ,1964

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The Structural Engineer's Professional Training Manual Dave Adams, 2007-10-24 The Business and Problem Solving Skills Needed for Success in Your Engineering Career The Structural Engineer's Professional Training Manual offers a solid foundation in the real world business and problem solving skills needed in the engineering workplace Filled with illustrations and practical punch list summaries this career building guide provides an introduction to the practice and business of structural and civil engineering including lots of detailed advice on developing competence and communicating ideas Comprehensive and easy to understand The Structural Engineer's Professional Training Manual features Recommendations for successfully training engineers who are new to the field Methods for bringing together ideas from a variety of sources to find workable solutions to difficult problems Information on the real world behaviors of building materials Guidance on licensing liability regulations and employment Techniques for responsibly estimating design time and cost Tips on communicating design ideas effectively Strategies for working successfully as part of a team Inside This Skills Building Engineering Resource The Dynamics of Training The World of Professional Engineering The Business of Structural Engineering Building Projects Bridge Projects Building Your Own Competence Communicating Your Designs Engineering Mechanics Soil Mechanics Understanding the Behavior of Concrete Understanding the Behavior of Masonry Construction Understanding the Behavior of Structural Steel Understanding the Behavior of Wood Framing

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1. Understanding the eBook Anchor Block Asce Manual
 - The Rise of Digital Reading Anchor Block Asce Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Anchor Block Asce Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Anchor Block Asce Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Anchor Block Asce Manual
 - Personalized Recommendations
 - Anchor Block Asce Manual User Reviews and Ratings
 - Anchor Block Asce Manual and Bestseller Lists
5. Accessing Anchor Block Asce Manual Free and Paid eBooks
 - Anchor Block Asce Manual Public Domain eBooks
 - Anchor Block Asce Manual eBook Subscription Services
 - Anchor Block Asce Manual Budget-Friendly Options
6. Navigating Anchor Block Asce Manual eBook Formats

- ePub, PDF, MOBI, and More
- Anchor Block Asce Manual Compatibility with Devices
- Anchor Block Asce Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Anchor Block Asce Manual
 - Highlighting and Note-Taking Anchor Block Asce Manual
 - Interactive Elements Anchor Block Asce Manual
- 8. Staying Engaged with Anchor Block Asce Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Anchor Block Asce Manual
- 9. Balancing eBooks and Physical Books Anchor Block Asce Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Anchor Block Asce Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Anchor Block Asce Manual
 - Setting Reading Goals Anchor Block Asce Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Anchor Block Asce Manual
 - Fact-Checking eBook Content of Anchor Block Asce Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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