

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.)

$$= (1.8 \times 1.8 \times 1.8) \times 25 - \text{Pipe 1.2Dia} = \text{raft weight}$$

$$= 9.7 \text{ kN}$$

Operating weight of Pipe Anchor Block, (W_o)

$$= 240.00 \text{ kN}$$

Total weight of Foundation system, P_o

$$= 9.7 + 240$$

$$= 249.70 \text{ kN}$$

Pipe Lever arm for moment

$$= 0.65 \text{ m}$$

Piping Horizontal Loads (input from Piping Stress)

F_z

$$= 260 \text{ kN}$$

F_x

$$= 25 \text{ kN}$$

Lateral Force due to thrust

F_z

$$= 260 \text{ kN}$$

(Piping load

transverse direction of the block)

Moment due to lateral Force

M_{x1}

$$= 260 \times 0.65$$

$$= 169.00 \text{ kNm}$$

Longitudinal Force due to unbalanced force

F_x

$$= 25 \text{ kN}$$

M_{x1}

$$= 25 \times 0.65$$

$$= 16.25 \text{ kNm}$$

Anchor Block Asce Manual

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Mihashi, Ryoichi Sato, Kochi
Maekawa, Hikaru Nakamura**

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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

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