



# Construction in the Landscape: A Handbook for Civil Engineering to Conserve Global Land Resources

By T.G. Carpenter

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*Construction in the Landscape* describes the impact of construction on the land and landscape where it takes place. Geographical coverage is necessarily global to reflect the great variation both in people's economic and social needs and in the shortage or abundance of natural resources.

Part one introduces both land resources, whether used for agriculture, human settlement or mineral extraction or conserved as scenery, wildlife habitat or for the undefined needs of future generations; and construction, its products, skills, processes and impacts on land resources. Part two describes specific forms of civil engineering – from landform adaptation, through dams and river control works, coastal construction and transport infrastructure to particular types of structure such as bridges, towers and power stations, or the layout of complete settlements. Part three deals with regional planning of construction and land use in different geographical circumstances – from fine scenery, through rural countryside to city and suburban development – and to the sort of land arrangements that may be sustainable for an increased but hopefully more civilized human population a century hence.

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### **Editorial Review**

#### **Review**

'This book answers the call from multidisciplinary landscape design professionals and students who are striving to create engineered landscapes that are not only sustainable, but optimized for all aspects of human and environmental requirements. The text focuses on the primary obligation of engineered landscapes to reach specified performance goals but couples this with the priority of the hydrological, ecological and aesthetic expectations necessary for sustainable landscape design. Overall, a first class text book for practitioners, researchers and students in civil engineering, and associated disciplines including planning, restoration ecology, hydrology and landscape design. ' Dr. Mark Simmons, Director of Research and Consulting at the Lady Bird Johnson Wildflower Center, University of Texas at Austin.

#### **About the Author**

Tom Carpenter is a retired civil engineer with many years experience in planning a variety of construction projects in a wide range of physical situations in Asia, Africa and Europe. He is now a writer on natural resource and environmental aspects of construction.

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##### **Paul Holt:**

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