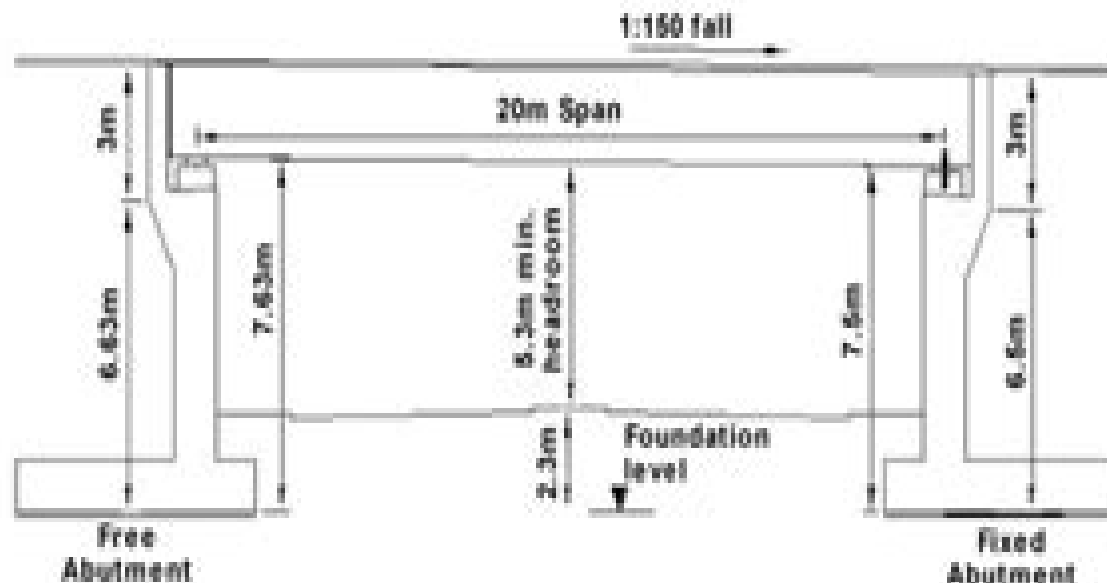


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Abutment Design Example to BD 30

Design the fixed and free end cantilever abutments to the 20m span deck shown to carry HA and 45 units of HB loading. Analyse the abutments using a unit strip method. The bridge site is located south east of Oxford (to establish the range of shade air temperatures).



The ground investigation report shows suitable founding strata about 9.5m below the proposed road level. Test results show the founding strata to be a cohesionless soil having an angle of shearing resistance (ϕ) = 30° and a safe bearing capacity of 400kN/m^2 .

Backfill material will be Class 6N with an effective angle of internal friction (ϕ') = 35° and density (γ) = 19kN/m^3 .

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Table of Contents Bridge Design Manuals

1. Understanding the eBook Bridge Design Manuals
 - The Rise of Digital Reading Bridge Design Manuals
 - Advantages of eBooks Over Traditional Books
2. Identifying Bridge Design Manuals
 - 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 Bridge Design Manuals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bridge Design Manuals
 - Personalized Recommendations
 - Bridge Design Manuals User Reviews and Ratings
 - Bridge Design Manuals and Bestseller Lists
5. Accessing Bridge Design Manuals Free and Paid eBooks

- Bridge Design Manuals Public Domain eBooks
- Bridge Design Manuals eBook Subscription Services
- Bridge Design Manuals Budget-Friendly Options
- 6. Navigating Bridge Design Manuals eBook Formats
 - ePub, PDF, MOBI, and More
 - Bridge Design Manuals Compatibility with Devices
 - Bridge Design Manuals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Bridge Design Manuals
 - Highlighting and Note-Taking Bridge Design Manuals
 - Interactive Elements Bridge Design Manuals
- 8. Staying Engaged with Bridge Design Manuals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bridge Design Manuals
- 9. Balancing eBooks and Physical Books Bridge Design Manuals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bridge Design Manuals
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bridge Design Manuals
 - Setting Reading Goals Bridge Design Manuals
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bridge Design Manuals
 - Fact-Checking eBook Content of Bridge Design Manuals
 - 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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