

The bridge frame is erected



Overview

The document discusses the erection methods for steel girder and truss bridges, detailing various techniques such as lifting, staging, floating, rolling, and launching. It also covers essential considerations and data needed before construction, such as site conditions and. Bridges are erected by a variety of methods. Bridges over navigable waterways are sometimes limited to erection. truction in building and civil engineering. Associate Members are those principal companies involved in the purchase, design or supply of components, materials, services etc related to the industry. Apart from that this chapter deals with the most important issue of. The span is made of segments that are hung on a launching gantry and are assembled by pre-stressing while the span is placed on the piers.



Article Content

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Erection Procedure for Bridges

Bridges are erected by a variety of methods. The choice of method in a particular case is influenced by type of structure, length of span, site conditions,

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BCSA Guide to the Erection of Steel Bridges

This guide covers the work of the bridge project team relating to erection – from concept to completion; that is for the more common forms of short and medium span bridges for road bridges (which

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Erection of steel Structure | PPTX

The document discusses the erection methods for steel girder and truss bridges, detailing various techniques such as lifting, staging, floating, rolling, and

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Steel Erection Process: Best Practices and Safety Tips

Steel's durability, strength, and flexibility make it one of the most versatile materials used in construction and ideal for high-rise steel buildings,

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Design for steel bridge construction

Design for steel bridge construction To ensure that a steel bridge design can be safely, economically and reliably executed (fabricated, assembled and erected),

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Draft on a Practice guide for Launching Girder-R2

Generally, bridge super-structures are erected in situations where there are space constraints for cast-in-situ method, for assembling the full girder, erecting temporary supports and to perform the related

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Bridge | History, Design, Types, Parts, Examples,

A bridge is a structure that spans horizontally between supports, whose function is to carry vertical loads. Generally speaking, bridges can be divided into two

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Every Kind of Bridge Explained in 15 Minutes

Similarly, a rigid-frame bridge integrates the superstructure and substructure (in other words, the deck, supports, and everything else) into a single unit. They don't have to be arched, but

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BRIDGE ERECTION MACHINES

The bridge itself can support lifting frames for balanced cantilever erection of precast segments or form travelers for in-place casting. These light machines are used in short or curved bridges, PC spans up

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Beams and Girders

Beams may be fabricated (off-site) or formed (at the bridge site) from rolled steel sections, cast in place concrete, timber, or prestressed concrete (Figure 2.39). Girders may be fabricated from plate steel,

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Steel Bridge Design Handbook Vol. 11

Bridge erection takes on many forms based on the site, the complexity of the structure, the availability of equipment, and the expertise of the erection contractor.

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Constructability in Bridge Design #6: Cranes Types for

Discover the common crane types used in bridge erection and their capabilities. Find out which cranes suit your project needs and enhance

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Types of Bridges

Types of Bridges Below is the list of 5 main types of bridges based on support mechanism: Girder bridges Arch bridges Cable-stayed bridges Rigid Frame

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Bridge Construction

Explore the intricate world of bridge construction with our expert insights and in-depth analyses. Our blog delves into the essential phases of

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Bridge Deck Erection – Methods and Different

Bridge deck erection is a crucial phase in bridge construction that involves the placement and assembly of structural elements to create the

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Construction of Bridges, Sep 16 [Compatibility Mode]

Structural Elements for Typical Bridges Foundation foundation is required to support the bridge towers, portal frames or piers Usual foundation methods such as H-pile, pipe-pile, bore-pile or precast

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Bridge Construction Inspection Manual

The erection proposal is to be submitted for review and approval by the Bridge Project Engineer. The Bridge Inspector must not allow any erection work to begin until approval of the erection scheme has

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Cantilever erection by lifting frames | Bridge Deck Erection

Construction of bridge decks with fully or partially preassembled segments by the cantilever method is technically possible for any kind of span range and segment weight. The fact that very often cranes

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STEEL GIRDER ERECTION A CONSTRUCTION ENGINEER'S

- Thousands of bridges in our current infrastructure need to be replaced and/or rehabilitated
- This “need” for bridge replacement generates a need for safe demolition practices
- Currently is no “formal” code

May 22, 2026

CHAPTER 4: THE CONSTRUCTION PROCESS OF SEGMENTAL BRIDGES

Before used in construction of concrete bridges, the cantilevering method had already been used in Asia for wooden structures of earliest times, as Podolny and Muller (1982) report. Amongst the major steel

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Freyssinet Precast segmental erection methods

As part of the design-build project for a set of precast segmental bridges, choice of the erection method was key to its achievement. Opting for

Sep 24, 2025

Bridge Deck Erection – Methods and Different

Bridge deck erection refers to the process of installing the bridge deck, which is the upper surface of a bridge that carries the traffic load.

Oct 01, 2025

CHAPTER 4: THE CONSTRUCTION PROCESS OF SEGMENTAL

Application of prestressed concrete for bridge construction was developed by French engineer Eugène Freyssinet, as described in Section 2.1.6, and has spread widely thereafter. Only prestressing made

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Erection Of Steel Structures | Pebsteel

Depending on the method of construction and erection of the structure, the rafter steel frame will be erected from the inside and installed

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Steel-frame structures

A wide variety of structures are erected using structural steel. Basically, they can be listed as buildings, bridges, and towers; most other structures are modifications of

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Frame Bridge 1

Frame bridge. The frame is made of U-sections, the deck of L-sections, and the safety barrier of circular hollow sections. The safety barrier has a truss-like

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Frame bridges

Strictly speaking, most bridges are framed structures. While frame action is obviously relevant e.g. in arches and in girder bridges longitudinally stabilised by piers, it also matters in many other cases,

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Components Of Bridge | Parts Of Bridge

3. Sub-structure The parts of the bridge which support the superstructure and transmit all the structural loads of the bridge to the

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