

# **Techniques for constructing high and low bridge tee joints**





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### Bridge construction

The tower foundations may be constructed using caisson or cofferdam techniques, whilst the cable anchorages can be secured through anchorage tunnels to

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### Bridge Design Guide

Use slab dowels to provide lateral restraint when constructing U-beams with inverted-tee bents. These dowels are located at the top of the inverted-tee stem and are in a slotted pipe to allow for expansion

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### Bridge Construction Techniques: From Planning to Execution

This article breaks down bridge construction techniques step-by-step--from initial planning to final execution --highlighting key processes, challenges, and modern methods.

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### Service Life Design of Deck Closure Joints in ABC

The design of closure joints to meet the strength limit state is quite simple; however, the design of a service life for these joints is quite challenging.

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### AshwinD24's gists · GitHub

GitHub Gist: star and fork AshwinD24's gists by creating an account on GitHub.

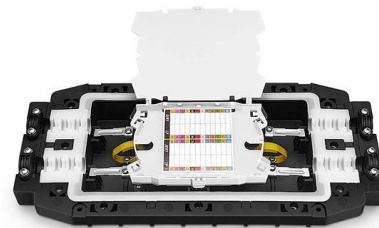
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### Fatigue Strength of Joints in a Precast Prestressed Concrete Double Tee

Nevertheless, with large load requirements, coupled with more slender structural members and higher working stresses, there is a need to check the fatigue behavior and ultimate strength of longitudinal

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### (PDF) Strut-and-Tie Analysis of Bridge Tee Joints

Because of high shear force resulting in congested joint reinforcement, researchers began investigating alternative design methods for bridge joints that

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## REVIEW OF THE ROLE OF JOINTS USAGE IN BRIDGE

Abstract - Bridges are very important connecting elements and backbone of highway infrastructure. Joints are used in bridge construction to accommodate the relative temperature movements in

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## Construction Techniques for Segmental Concrete Bridges

I believe, how-ever, that the principle reason for the success of segmental concrete con-struction is the number of construction techniques available to build these bridges.

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## Development and study of deck joints in prefabricated

Speed of construction, particularly for bridge replacement and repair projects, has become a critical issue to minimize disruption of traffic and commerce. A

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## Deck Bulb Tee Girder Bridge Problems and Applications

Abstract: Accelerated Bridge Construction (ABC) has led to the widespread adoption of Deck Bulb Tee girder (DBT) in bridge engineering. Nevertheless, the use of DBT girders in large-span and

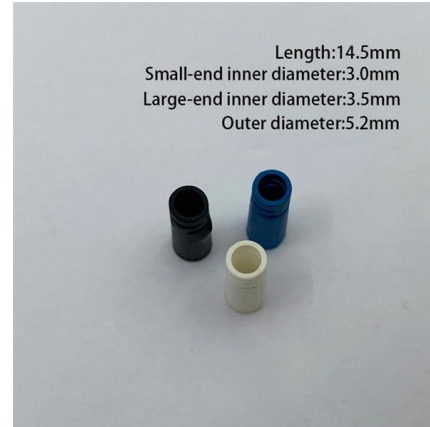
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### FHWA and AI release longitudinal joints best practices

Tennessee uses joint surface sealers on joints that do not meet a minimum density. Conclusion Longitudinal joint performance is a high priority for

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### Longitudinal Joints with Accelerated Construction Features in Decked

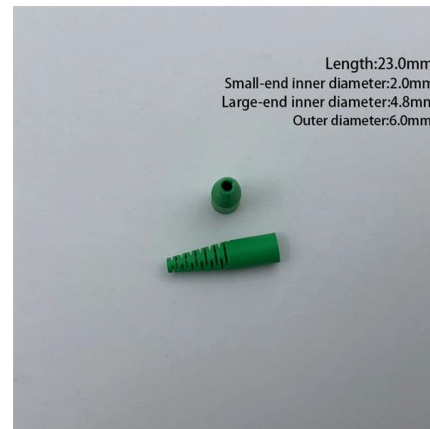
Comparing with the current longitudinal joint with welded steel connectors, an improved joint detail should control joint cracking better, and maintain the accelerated construction features.

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### Twelve high voltage cable construction techniques used worldwide

This technical article discusses twelve different methods for laying high voltage cables. Out of the ten, four are deemed

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### Deck Bulb Tee Girder Bridge Problems and Applications

Therefore, this paper aims to summarize typical technical improvements in the structural design of DBT girders, including addressing longitudinal joints issue and exploring the use of Ultra-High

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### **Full-scale testing of non-proprietary ultra-high performance concrete**

The Accelerated Bridge Construction (ABC) techniques have paved the way to offer viable and rapid solutions for bridge deck replacements. The use of full-depth precast deck panels is

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### **Bridge Geometry Manual**

Bridge Geometry Manual Publication No. FHWA-HIF-22-034 Infrastructure Office of Bridges and Structures

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### **Technical Advisory: Concrete Pavement Joints**

The primary design, construction and maintenance factors that contribute to satisfactory joint performance include: the correct use of various types of joints, joint layout, the proper use of dowels

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### **Rehabilitation of Longitudinal Joints in Double-Tee**

Precast prestressed double-tee girders are common on county bridges in South Dakota because of the ease of construction, short construction

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### **Review and analysis of RC bridge half-joints**



## strengthening techniques

In the past, the extensive use of the Gerber scheme in the construction of existing bridges has been justified by the advantages in terms of reduced s

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## Alternative Joint Construction Techniques

Summary Statement: AASHTO and the FHWA identify the most significant factor affecting the long-term durability of a longitudinal joint as the density achieved along that joint. Equally, the most difficult

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## Development and study of deck joints in prefabricated concrete bulb-tee

It was concluded that the type and detailing of the deck slab joint affected the ultimate load carrying capacity of the developed connections. The successful connection systems can be used by

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## Report on Techniques for Bridge Strengthening

This report is the first in a series of five that will provide information on new or emerging bridge strengthening methods for bridge owners and bridge engineers. This first report provides an overview

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## Longitudinal joint in decked bulb-tee beams for accelerated bridge

Accelerated bridge construction (ABC) techniques have gained prominence due to their potential to minimize construction time and traffic disruptions while enhancing sustainability. This

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## Concrete Bridge Deck Joints: State of the Practice

Introduction, Continued o Bridge deck joints should protect the interior edges of concrete decks from vehicle loads, seal the joint openings, and accommodate movements resulting from

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## Microsoft Word

A 4-hour workshop was also developed as part of this project. Key words: longitudinal joint, paving, density, permeability, air voids, hot-mix asphalt Best Practices for Constructing and Specifying HMA

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## Guidance for Choosing and Detailing Bridge Expansion Joints to

Overview Over the past few years there have been numerous premature expansion joint header or seal failures on expansion joints installed on new or rehabilitated bridges. Many times,

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## Development and study of deck joints in prefabricated concrete bulb

The paper presents design procedure of the developed joints based on available design equations in North American design codes for bridges and structures as well as related design equations

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## Longitudinal Joints between Deck Bulb Tee Girders Made with

Abstract Highway bridge superstructures may be built using only precast concrete elements, such as deck bulb tees (DBTs). Formerly flange connections between those members

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## REVIEW OF THE ROLE OF JOINTS USAGE IN BRIDGE

Without installation of better joints in bridges, the purpose of constructing bridges will not be fulfilled. The serviceability of bridges is largely depended on the joints.

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