

Left Lower Bend Bridge Bend



Article Overview

A bridge bent is a multi-column substructure that supports the bridge deck, transferring loads to the ground, and the Left Lower Bend refers to a specific bent located on the left side of the bridge at a lower elevation.

Function and Location

The Left Lower Bend Bridge Bend is an intermediate support structure positioned between the bridge's abutments. Its primary function is to support the bridge deck and distribute the weight of traffic and the superstructure down into the foundation while minimizing obstruction to water flow or traffic below the bridge. The term "Left Lower" typically indicates its position relative to the bridge alignment, often on the left side when facing along the bridge's stationing and at a lower elevation compared to other bents.

Structure and Components

A bent generally consists of two or more vertical columns connected by a horizontal cap beam at the top. The cap beam collects the load from the bridge deck and channels it into the columns, which then transfer the load to individual footings or piles. The main components include:

- Cap Beam: Horizontal member supporting the bridge deck or girders.
- Columns: Vertical supports that carry the load from the cap to the foundation.
- Footings or Piles: Foundations that distribute the load into the ground. Bents may also include reinforcement around deck drains, utilities, and openings, as well as sti...

Article Content

Warning Signs

The first may look quite light, allowing drivers to flow around it, but by warning of another bend straight after, it allows time to slow

Chapter 409

Each end bent for a reinforced concrete slab bridge should be backfilled with removable flowable backfill. The INDOT Standard

Backbend To Bridge

Backbend To Bridge I wrote this blog post in 2014, but still stand by it how it is. Enjoy! Emmet Louis, January 2020 The back bend to

Warning Sign/Bend

Pre-Worboys sign The pre- Worboys bend sign bore a diagram symbolising a road, pointed at the top and with a "fishtail" at the

Road Warning Signs and Meanings

Bend to right sign (Bend to left if symbol reversed) Roundabout sign Uneven road sign Reduce speed now plate below sign Two-way

Bridge Inspection: Piers and Bents (BIRM)

The footing transmits the weight of piers or bents, and the bridge reactions to the supporting soil or rock. The footing also provides

Google Translate

Google's service, offered free of charge, instantly translates words, phrases, and web pages between English and over 100 other

Manual for Heat Straightening, Heat Curving and Cold Bending of

This new manual provides the background knowledge and information to use heat straightening, heat curving and cold bending for

Bends and Corners

The optimum line for negotiating a right- or left-hand bend on a two-way road. "Straightening" the curve in this way removes some of

Lateral capacity and repair of corrosion-damaged pile bents, part 1 ...

damage in prestressed piles are difficult to quantify because the amounts of steel loss are unknown. This paper, which is the first in a

ConcreteBent-AprilBeta

This document was developed as part of the continuing effort to provide guidance within the Georgia Department of Transportation in

CE-02-409 Bridge Design

The section contains two design examples including a reinforced concrete integral bent cap and a drop bent cap to illustrate the main

What Is a Bridge Bent? Bents vs. Piers Explained

Bridge bents and piers both support bridges, but they work differently. Learn what a bent is, its parts, and where you'll

Microsoft Word

Bend: A channel turn that is designed as a continuous curve with a given radius; usually provided for large channel changes (or turn

Bridge Mechanics (BIRM)

Bridge Design Loadings Mechanics is the branch of physical science that deals with energy and forces and their relation to the

BDD Chapter 7 Bent

By default, it is assumed that if any span of a bridge crosses a waterway, all supports except the abutments will be called piers.

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Which means if a lens too far in, bend the temple or endpiece in to bring it farther out; if one lens is too far up, bend the temple or

BDP 5.6 Concrete Bent Caps

Design considerations for the drop bent cap, the integral bent cap, and inverted tee bent cap are presented. Two design examples

Driver's Refresher of All Current Road Signs, Symbols and Meaning

Left Bend Sign – this road sign warns drivers that there is an incoming bend on the road going to the left. Left Lane Ends Symbol –

Bridge Inspection: Piers and Bents (BIRM)

A pier or bent is an intermediate substructure unit located between the ends of a bridge. Its function is to support the bridge at

Bridge Mechanics (BIRM)

Bending forces in bridge members are caused when a load is applied perpendicular to the longitudinal or neutral axis. A moment is

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