

Manual modeling of bridge foundations

Tutorial

Name:	Manual modeling of bridge foundations
Description:	PowerPoint presentations are attached which provide detailed examples of a 2-span PCC-girder bridge with three different foundation types. A step-by-step modeling procedure, with detailed descriptions and sketches, outlines the process.
Program:	CSiBridge
Version:	15.1.1+
Model ID:	na



The material presented on page, courtesy of **Harry A Cole, Ph.D., P.E.**, serves the Mississippi Department of Transportation for training purposes.

Overview

The zipped file attached contains three PowerPoint presentations which outline the modeling process for a 2-span PCC-girder bridge with three different foundation types. Presentation topics include the following:

1. Bent columns supported by a fixed column base (Example2-Two-Equal-Spans-Option1-Final.ppt)
2. Fixed column base replaced with pile/cap foundation, extending column to solid-element grid at mid-depth of pile cap (Example2-Two-Equal-Spans-Option2-Final.ppt)
3. Pile/cap foundation with bent column extending only to the top of pile cap, and Joint Constraint, in place of Weld, connecting base of column to solid-element grid at mid-depth of pile cap (Example2-Two-Equal-Spans-Option3-Final.ppt)

Attachments

- [Power Point presentation](#) (23MB)