Applying parametric variation to bridge width and girder spacing for bridge object with skewed abutments (steel I-girder bridge deck section)

Tutorial	
Name:	Applying parametric variation to bridge width and girder spacing for bridge object with skewed abutments (steel I-girder bridge deck section)
Description:	Demonstration of how to apply parametric variation to the deck width and girder spacing of bridge object with skewed abutments.
Program:	CSiBridge
Version:	18.0.1
Model ID:	581.1

On this page:

- Overview - desired geometry
- Modeling procedure
- Geometry generated by CSiBridge
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Overview - desired geometry

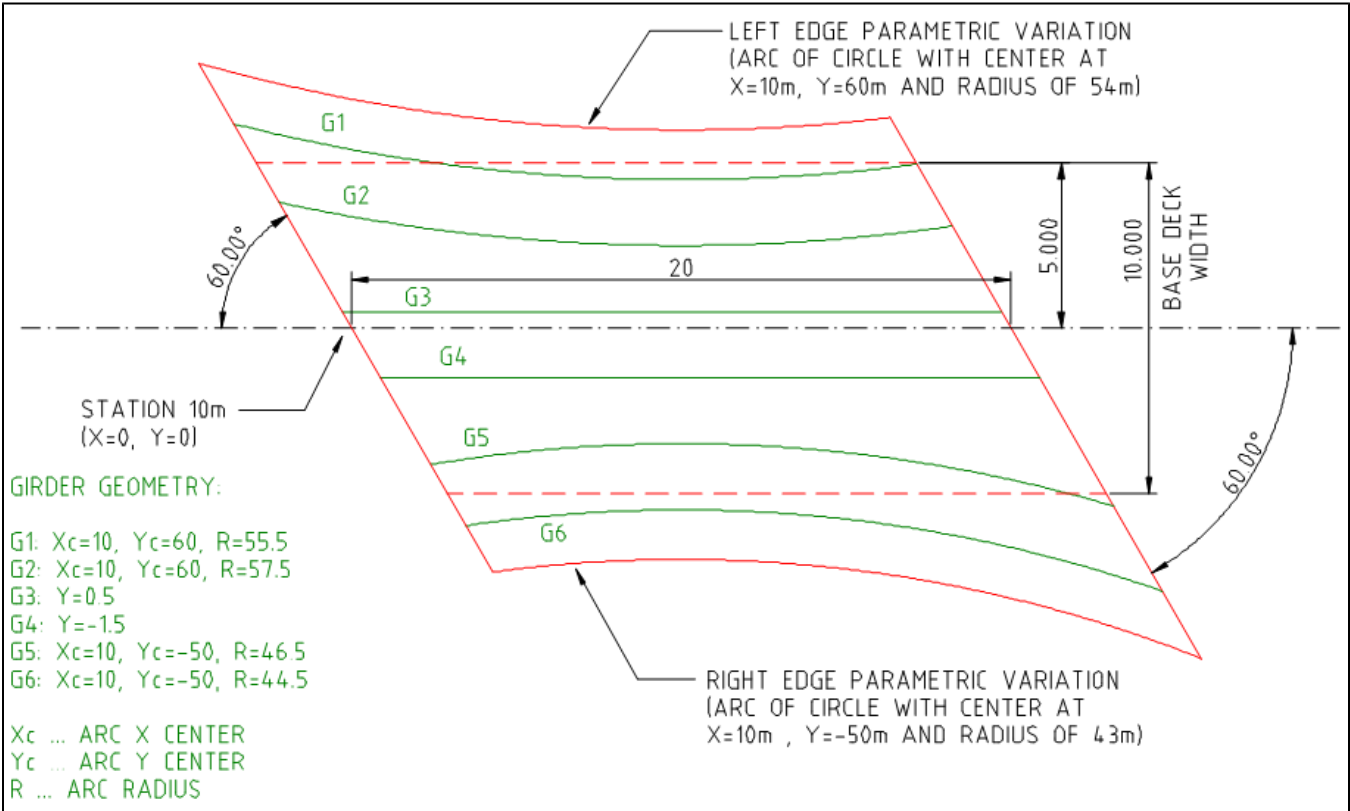The purpose of this tutorial is to show how to generate bridge geometry shown in Figure 1.

Figure 1: Desired geometry

Modeling procedure

The procedure is described in the attached "analysis notes.pdf" file that can be previewed below:

Geometry generated by CSiBridge

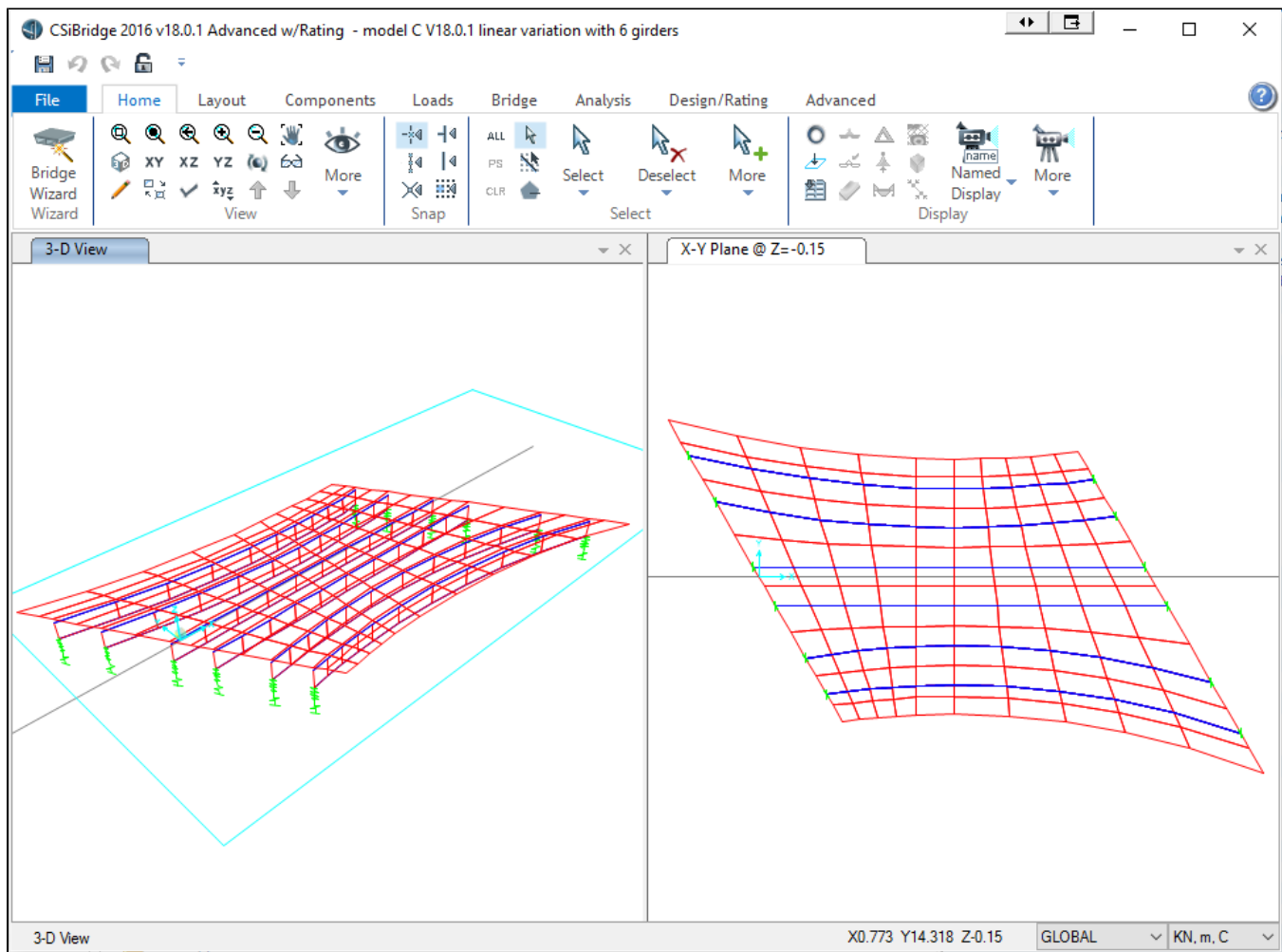The final geometry generated by CSiBridge is shown in Figure 2:

Figure 2: Generated geometry

Attachments

- model C V18.0.1 linear variation with 6 girders.zip ... zipped CSiBridge V18.0.1 model file
- analysis notes.pdf ... report describing the procedure
- geometry.dxf ... DXF file with the desired geometry

See also

- Applying parametric variation to bridge width for bridge object with skewed abutments (flat slab bridge deck section)
- Bridge parametric variation