Insertion point and transform stiffness

Test Problem

Name:	Insertion point and transform stiffness
Description:	3D demonstration of insertion-point, end-offset, and transform-stiffness application.
Program:	SAP2000
Version:	12.0.1
Model ID:	94

Demonstration of SAP2000 **insertion-point** and end-offset application, including the effects associated with **transform stiffness**.

Hand calculations

Screenshots

The visuals which follow illustrate the modeling and performance of two systems, one with default settings which transform stiffness to account for insertion-point offset, and one which does not transform stiffness.
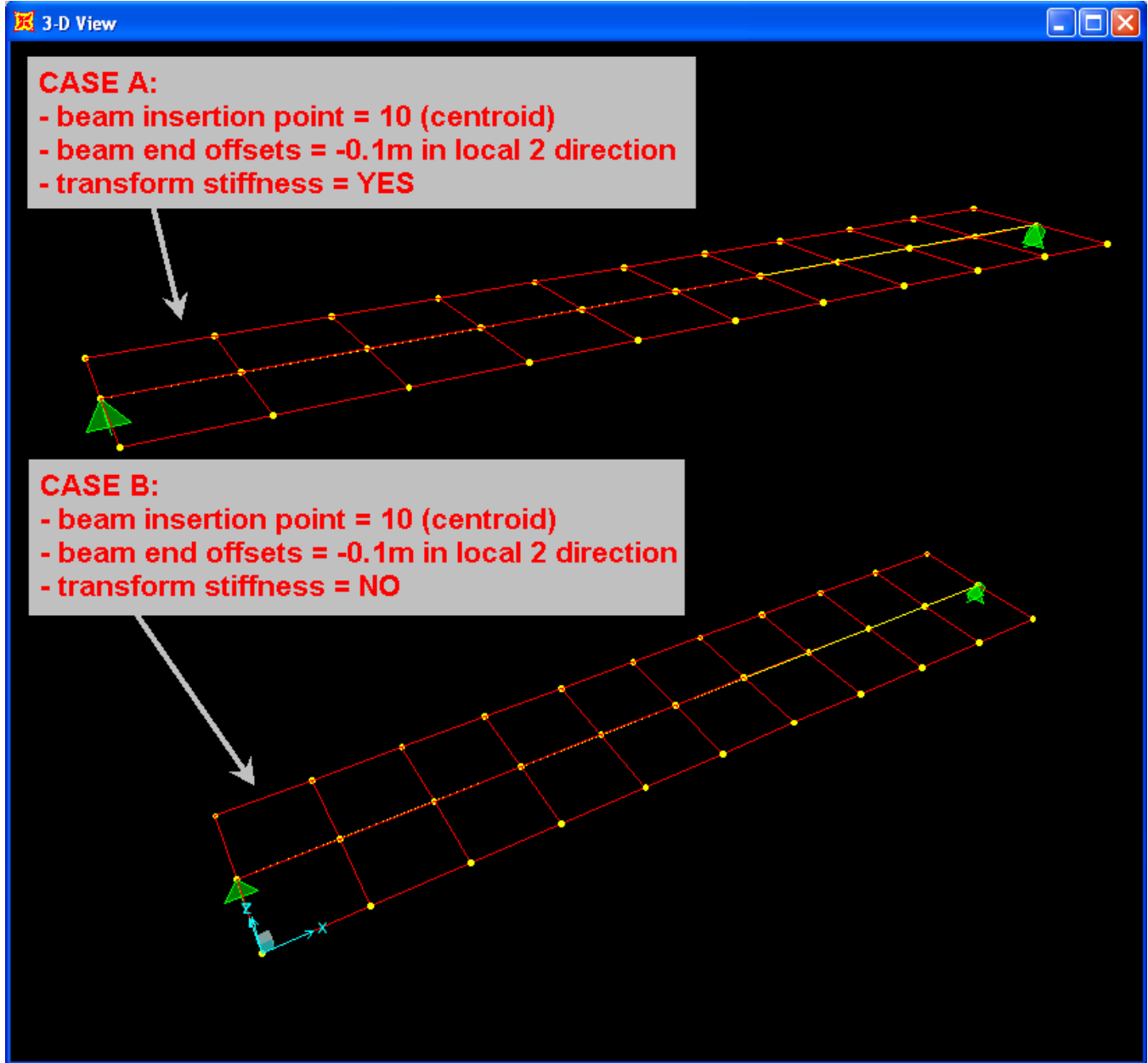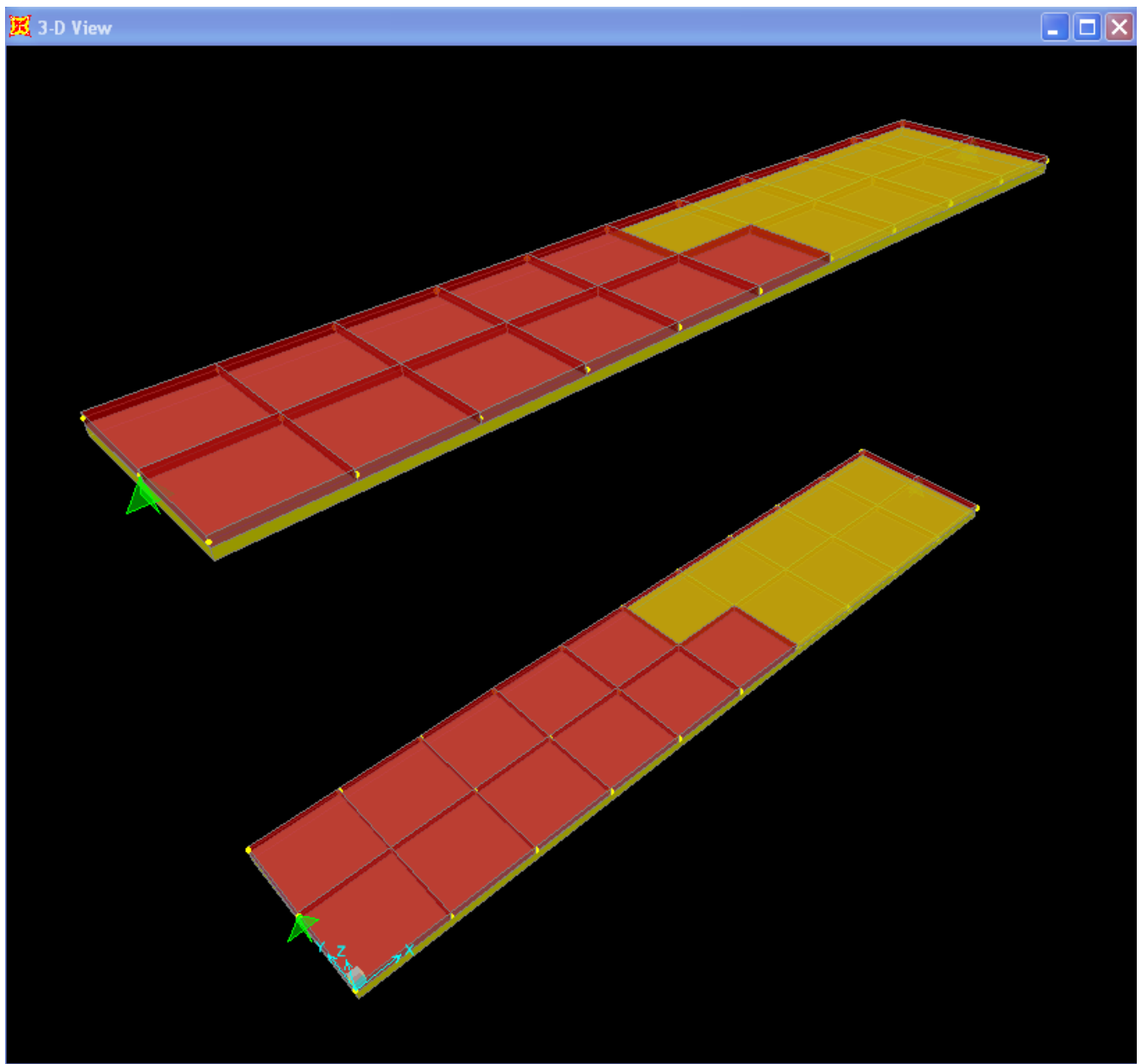

Figure 1 - Geometry
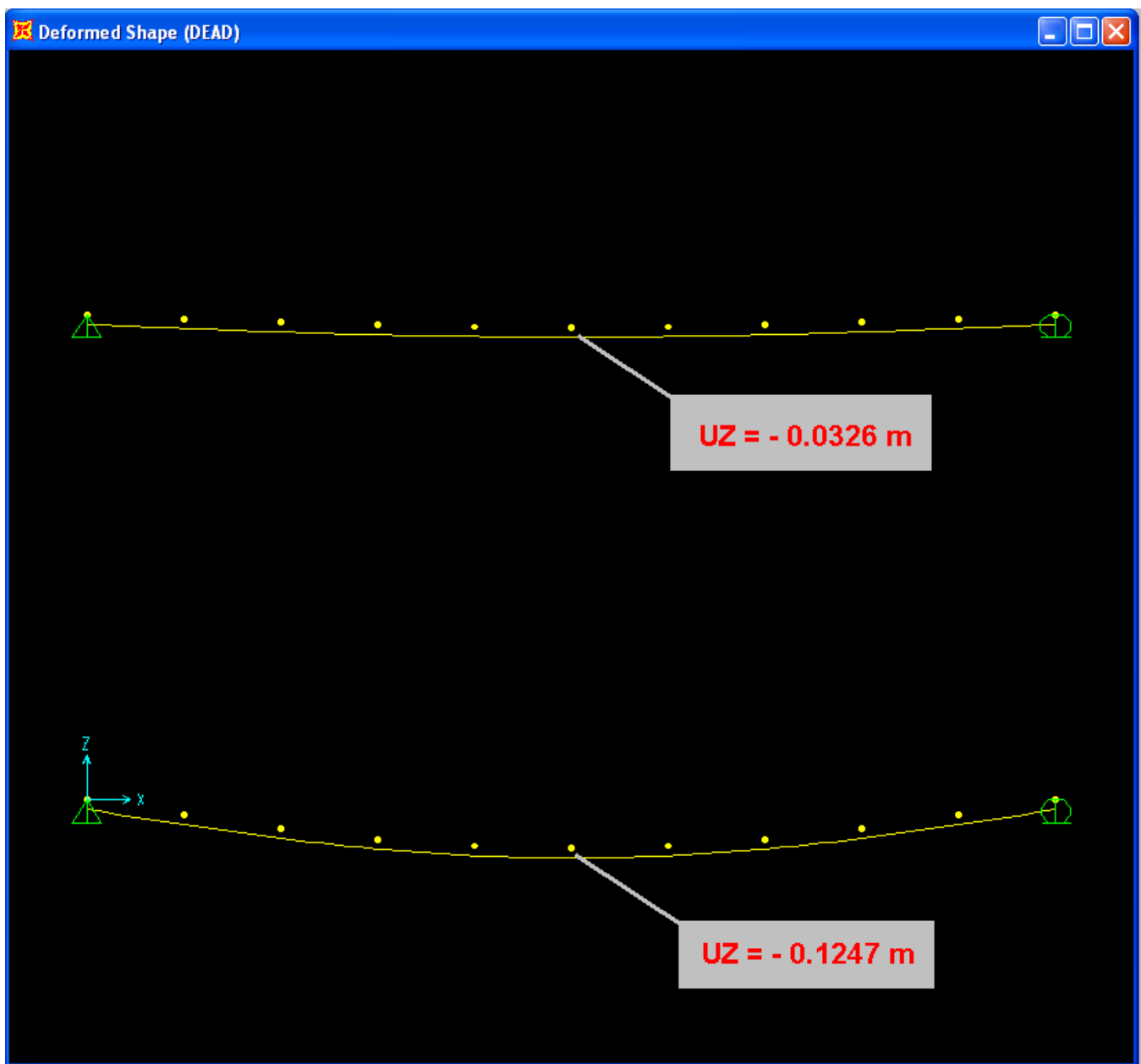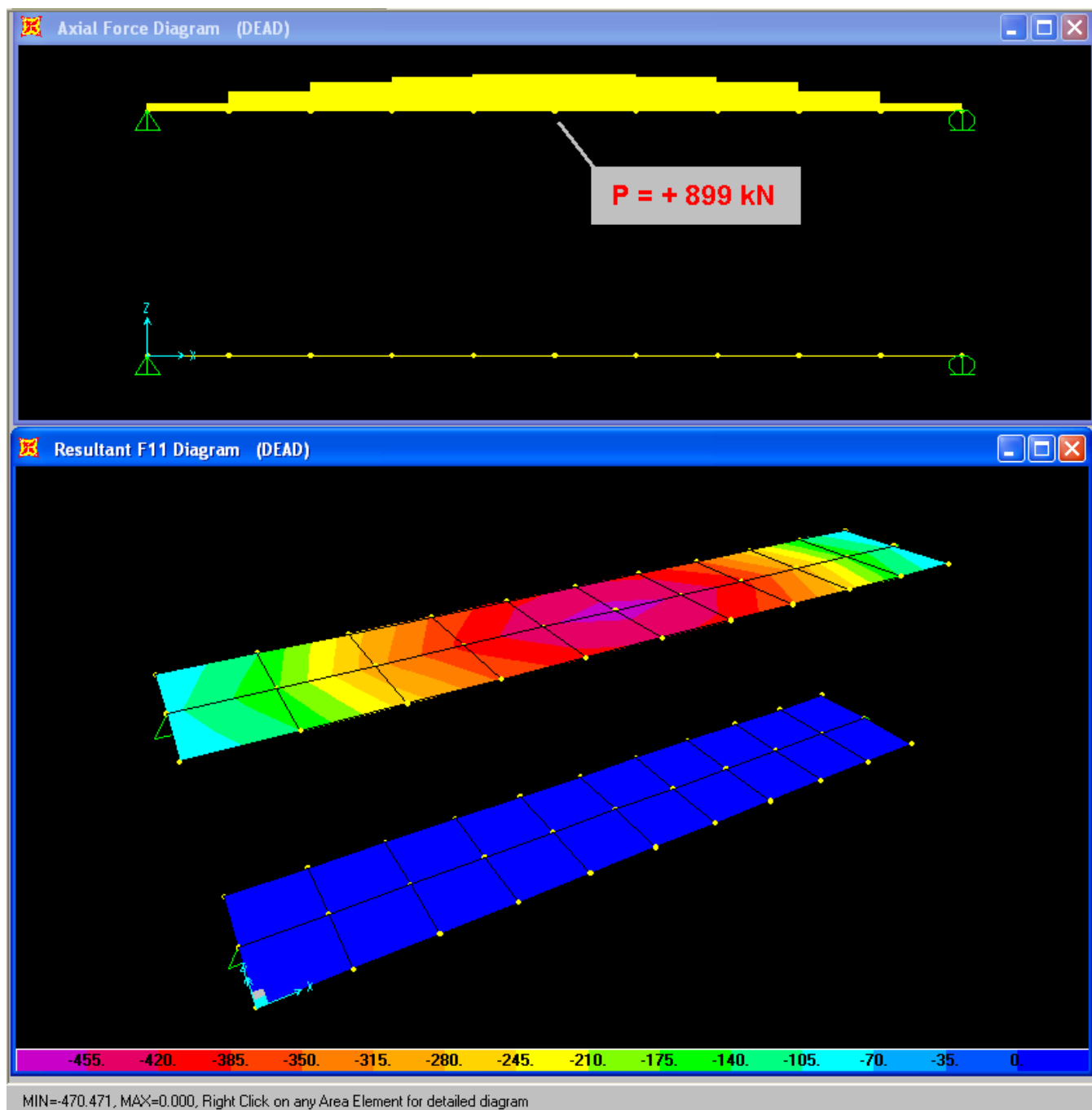
Figure 2 - Extruded geometry
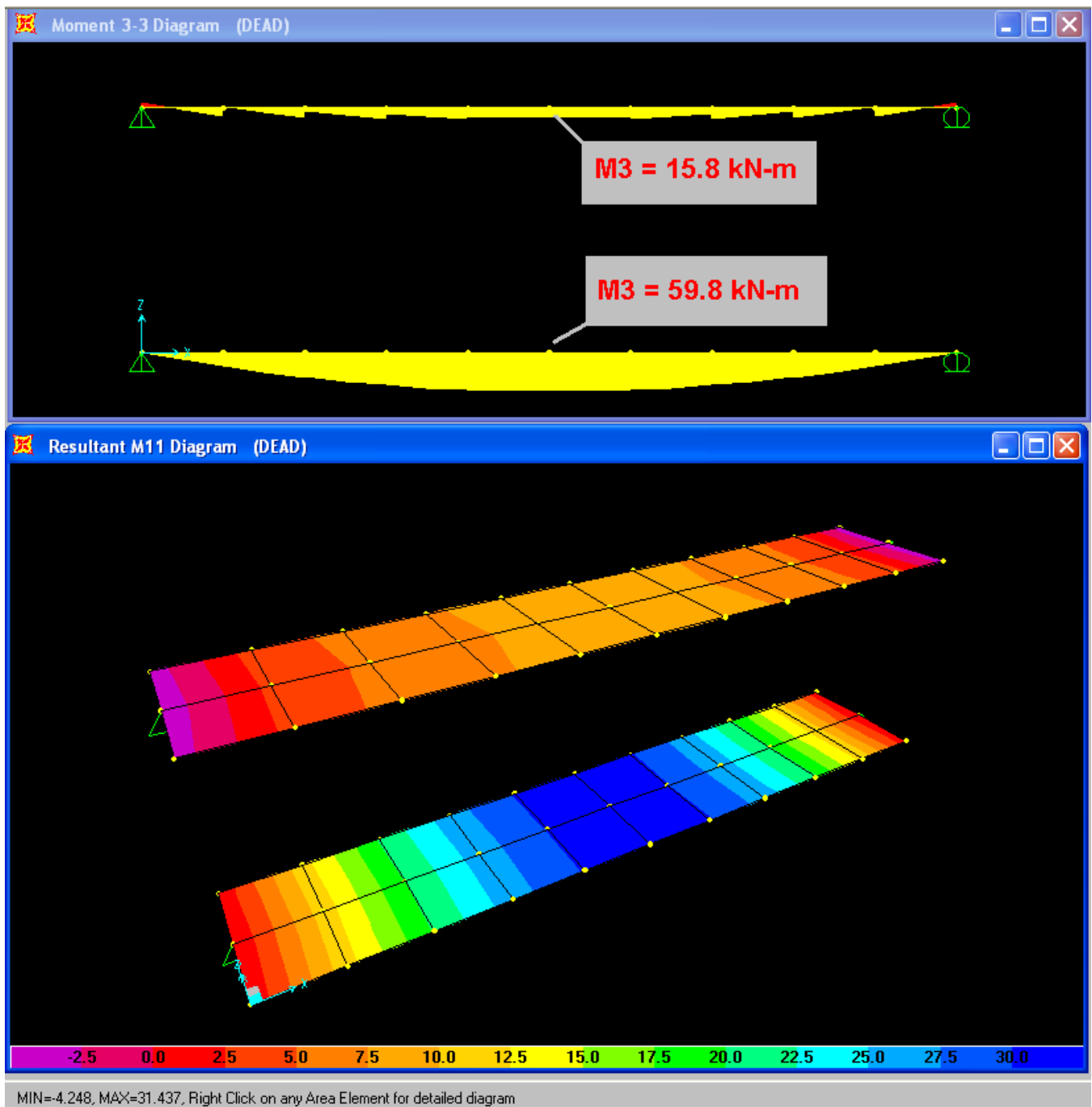
Figure 3 - Deflections

Figure 4 - Axial forces

Figure 5 - Moment

Attachments

- SAP2000 V12.0.1 model (zipped SDB file)
- Hand calculations (PDF)