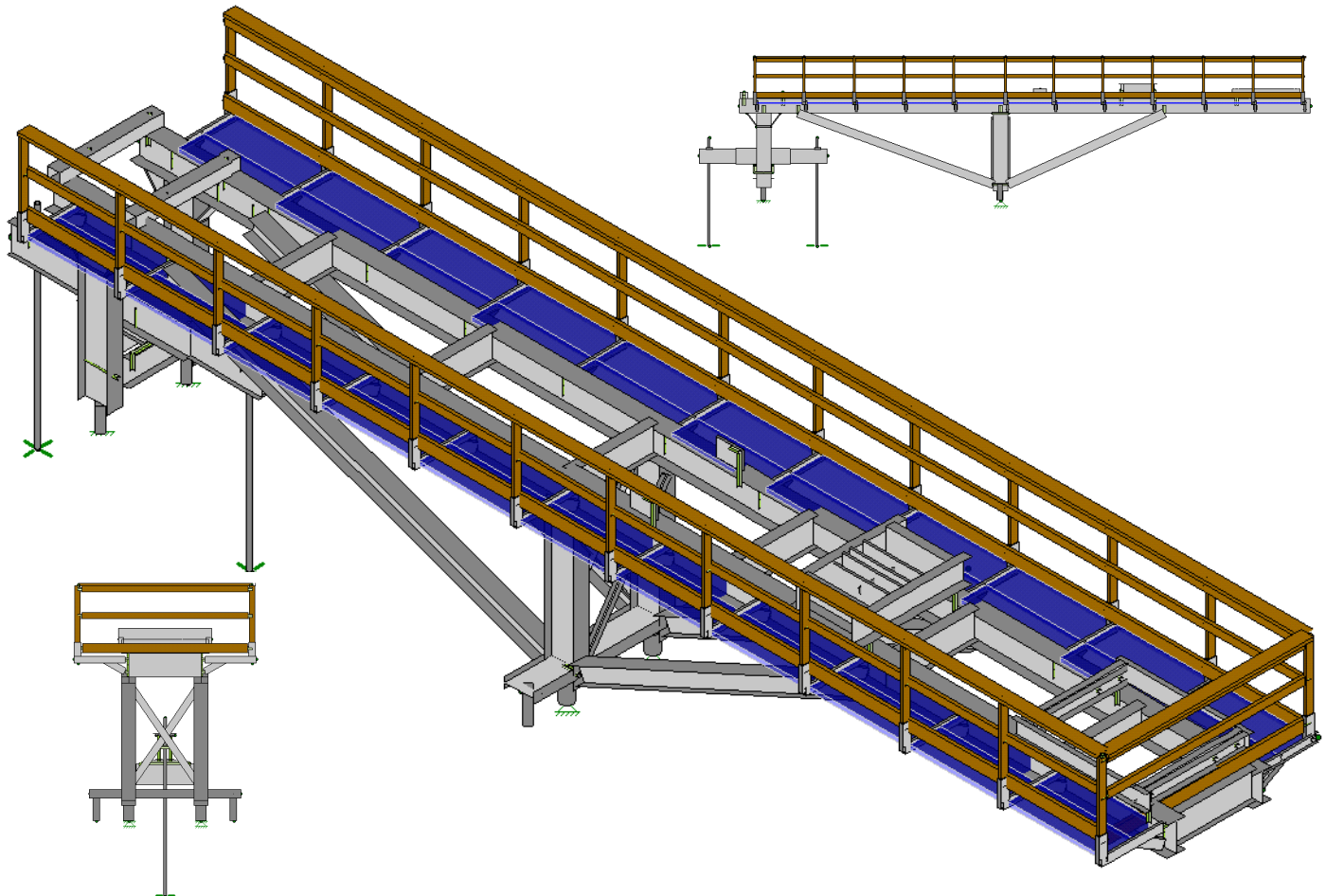


Bonner Bridge Replacement Project

Segment Lifter for Balanced Cantilever Bridge



Development and design of a highly optimized segment lifter with a very low ratio of equipment weight to segment weight (0.25)

- Segment weight of 126 tons max.
- Hydraulic winches
- 10-part lines
- Self-launching
- Overall concept development
- Mechanical component selection and interface
- 3D analysis
- Final design and drawings

- Project - Bonner Bridge Replacement
- Location - Dare County, North Carolina
- Year - 2015
- Type - Segment Lifter
- Owner - North Carolina DOT
- GC - PCL Civil Constructors
- Client - Schwager Davis Inc.