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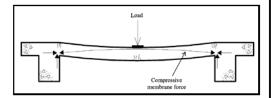
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Introduction

- · Bridges built more than 50 years ago
- · Increased traffic flow and modern code requirements
- Safety is a question???
- Designed for flexure, failing in punching shear??? But at higher capacities???
- Exploring possibility of Compressive Membrane Action???

CMA is a phenomenon that occurs in slabs whose edges are restrained against lateral movement by stiff boundary elements. This restraint induces compressive membrane forces in the plane of the slab

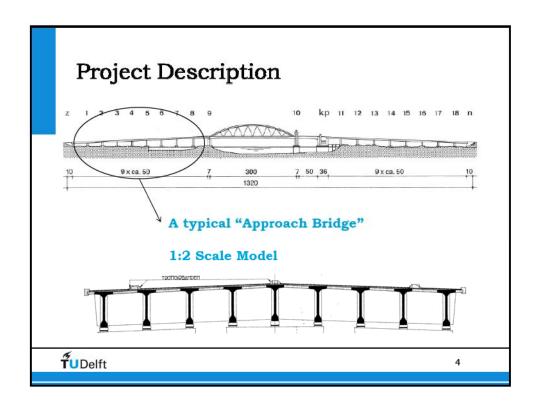
(Park and Gamble, 1980).

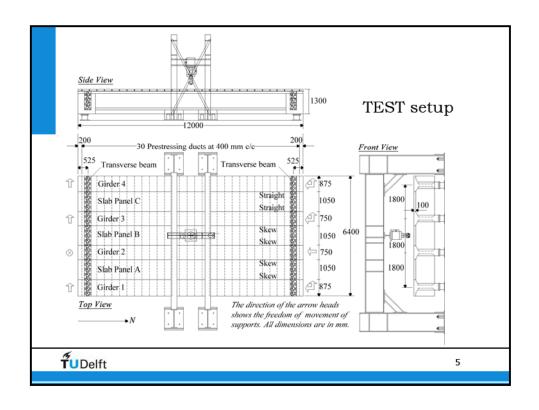


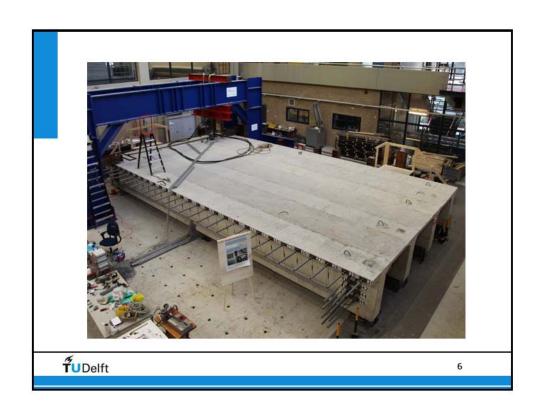


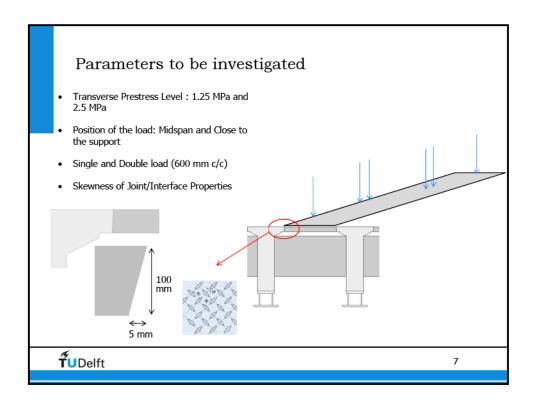
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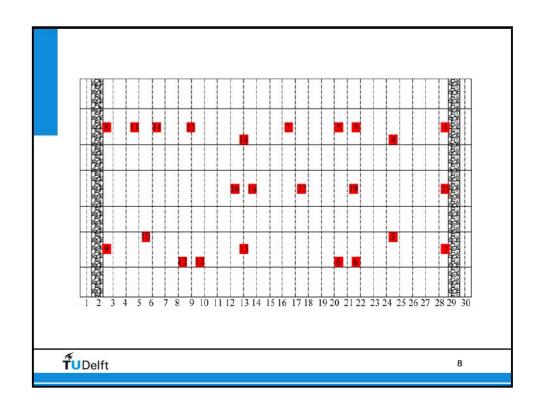
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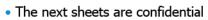












• They are becoming available after 4th June 2014



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