

Project:

REINFORCEMENT OF HOLMENBRUA

LOCATION:

Drammen, Norway

YEAR:

2015 - 2016

CLIENT:

Norwegian Public Roads Administration

SCOPE/PHASE:

Rehabilitation

PROJECT RESPONSIBLE:

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PROJECT DESCRIPTION:

«Holmenbrua» was designed by Olav Olsen, and was finished in 1962. Since then, there has been a large increase in traffic loads, and inspection has showed that the bridge is heavily loaded.

Dr.techn.Olav Olsen was assigned to check the capacity of the bridge, and detailed analysis showed that the moment capacity was OK while the capacity for shear around the supports was inadequate. The bridge is mainly unreinforced with respect to shear, and the condition of the concrete was not reassuring.

The solution was to install more than 2 500 shear bolts around the supports by drilling holes and tighten the bolts so they were in good contact with the concrete.

