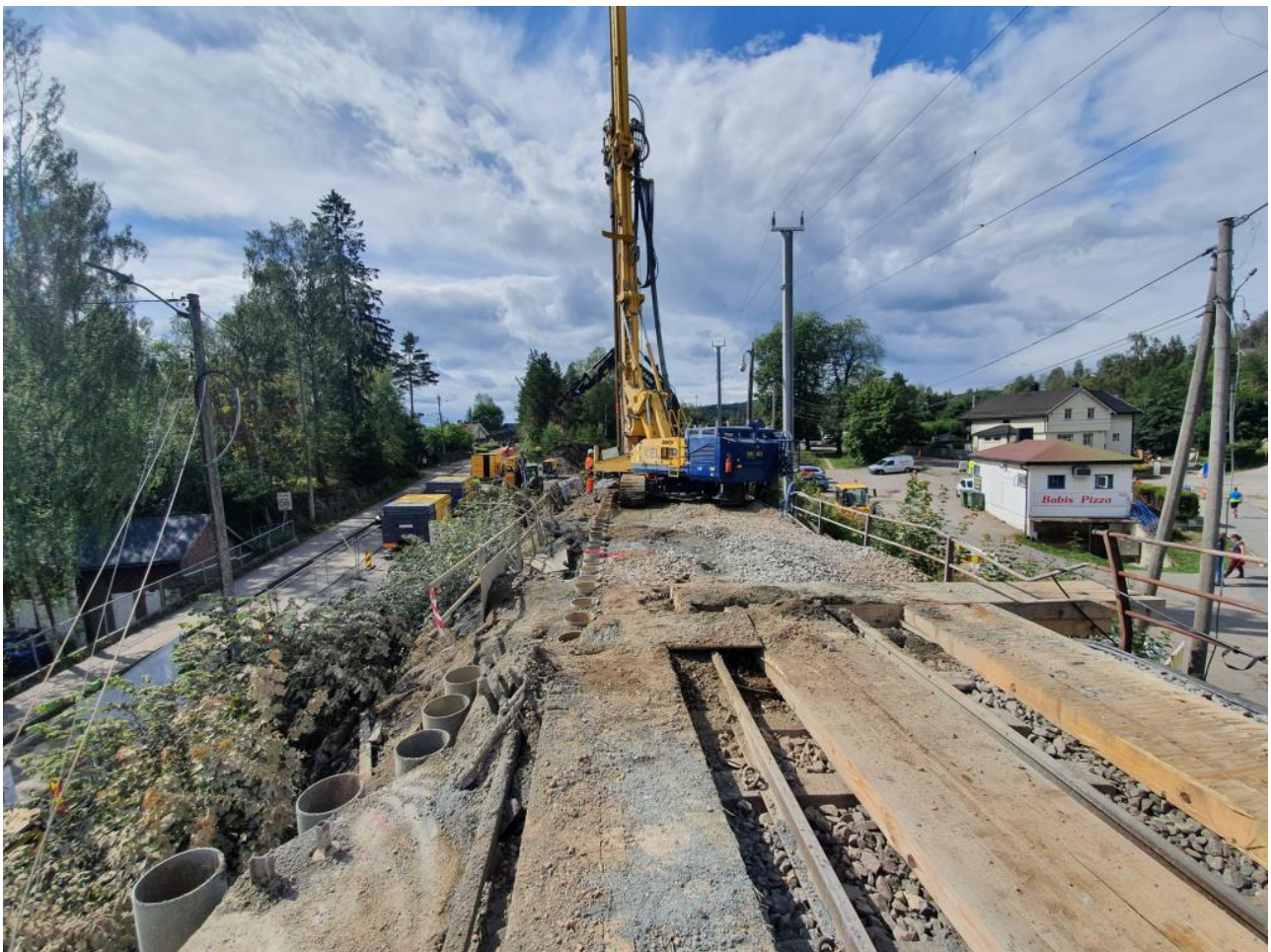


Nittedal Station

Nittedal, Norway

Keller installed 67 pcs of Ø323 casings for a pile wall and 10 pcs of 19m anchors in 5 days.

All works were done during a 10-day shutdown of the railway line at Nittedal Station.



The project

NRC has been contracted by Bane NOR to execute the construction works at Nittedal Station. The Station will be improved with a much longer 2 track line to be able to accommodate longer trains. In this regard it was necessary to construct a pile wall to be able to finish the remaining works.

The pile wall will consist of Ø323 casings and will also have 2 rows of strand-anchors.

Keller was contracted by NRC to execute the piling and anchoring works during the shutdown of the railway.

The challenge

The challenge in this project were mainly the short available time to execute the works and the challenges with doing the pile wall and the anchors for the pile wall around the same time.

The solution

The solution in the project was to mobilize our Comacchio MC40 drilling rig to be able to quickly establish enough of the pile wall to be able to do the anchors. The average length of the casings was 11m. All casings were drilled into solid bedrock with an air driven down the hole hammer.

A total of 67 casings were installed in a short period of time. Excavation of the soil was done down to the first anchor row before the anchors were installed.

10 anchors of around 19 m each were installed. After finished production, the soil was put back and the railway lines and power lines were reestablished.

The remaining works will be completed at a later time in another shut down.

Project facts

Owner(s)

Bane NOR

Keller business unit(s)

Keller Geoteknikk AS
Keller Grundbau GesmbH

Main contractor(s)

NRC Norge AS

Engineer(s)

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Solutions

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