



## Case Study: Railway Realignment Work.

Location: East Coast Main Line.

### Brief

IKM Consulting provided structural engineering support to Donaldson Associates for the construction of a new 1.5km section of East Coast Main Line between Edinburgh and Dunbar. The railway was being compromised by mine subsidence.

### Solution

Donaldson's solution included diverting the railway to a new route under which a piled slab was constructed and deep grouting undertaken. IKM Consulting engineer's assisted in the design of a pile concrete slab to support the track over areas subjected to mining settlement.

IKM also worked on the structural design of permanent overhead electricity line pylons , temporary signal foundations, and prepared sheet pile wall temporary works design to maintain track stability during the works.

### Outcome

The new section of track was successfully constructed without compromising track stability.



