

Engineering Insurance

Claims Review

Contractors' All Risks

Road Construction

Slide No. 103



Subsided road embankment in close vicinity of a pond

Amount of loss

Swiss Francs 600,000

Cause

Faulty design

Short description

The lane of the highway closest to the pond subsided considerably

because of a ground failure.

After excavating only 30 cm of soil, 2.05 m of embankment rest on water saturated terrain.

saturated terrain.

Due to this overload, a 130 m long part of the road slipped towards the

pona.

Comments

The proximity of the pond should have been an alarming signal and incentive to calculate the stability of the structure. The expected change of soil quality, especially with the presence of ground water in that area, would have called for a soil improvement treatment prior to putting up

embankment.

Conclusion

For foreseeable incidents and events caused by faulty design, the contrac-

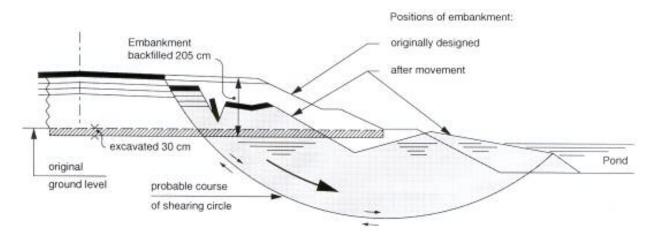
tor should not be eligible for cover under a CAR policy.

Edition	Class	Page No.
7	CAR	16



Backfilled embankment after soil collapse. Destroyed asphaltic layer fell into opening gaps.

Cross section showing movement caused by soil collapse.



Edition	Class	Page No
7	CAR	16.1