

Renewal of the lining of mountain tunnels in service

Issues on the aging tunnels

The aging tunnel lining has many cracks and water leaks. The leaking water may freeze into icicles that may hit passing vehicles.



Water Leakage and freezing (icicles)

Construction method to renew a section of the lining concrete

The new construction method renewing a section of the concrete lining with the expressway still in service will solve the

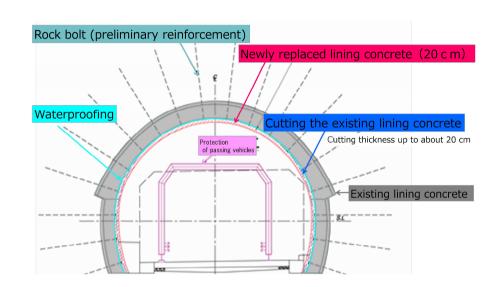
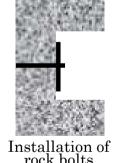




Fig Construction system (appearance diagram)

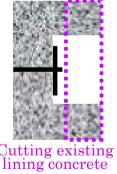
Construction direction \rightarrow





Reinforce the tunnel with rock bolts before cutting the existing lining concrete.

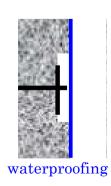
STEP2





Cutting lining concrete

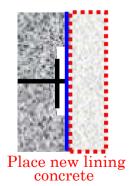
STEP3





Installation of waterproofing

STEP4





Lining concrete placement

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