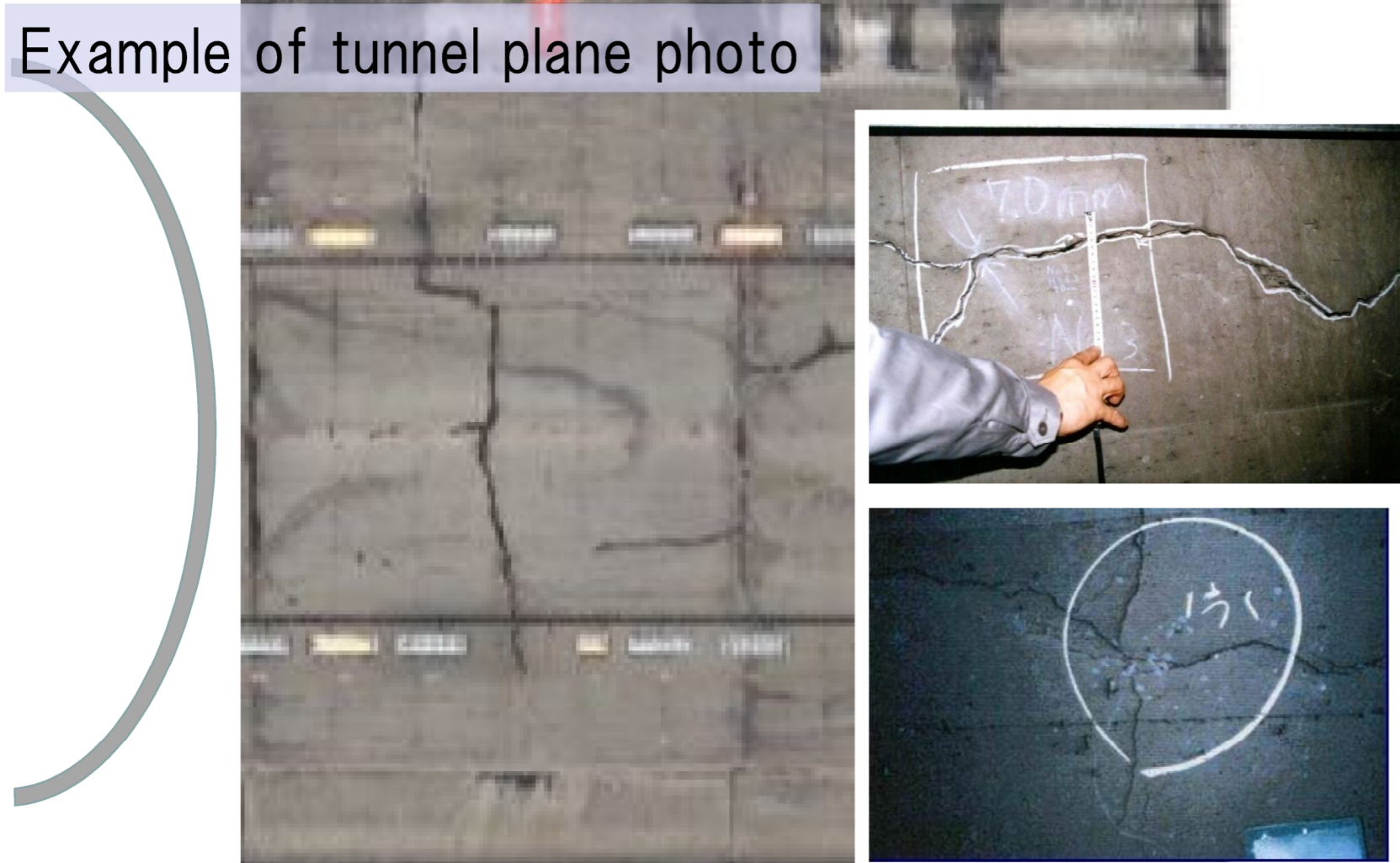


Renewal of lining concrete for mountain tunnels (New method !)

Issues on the aged tunnel

Example of tunnel plane photo



Cracks in lining concrete

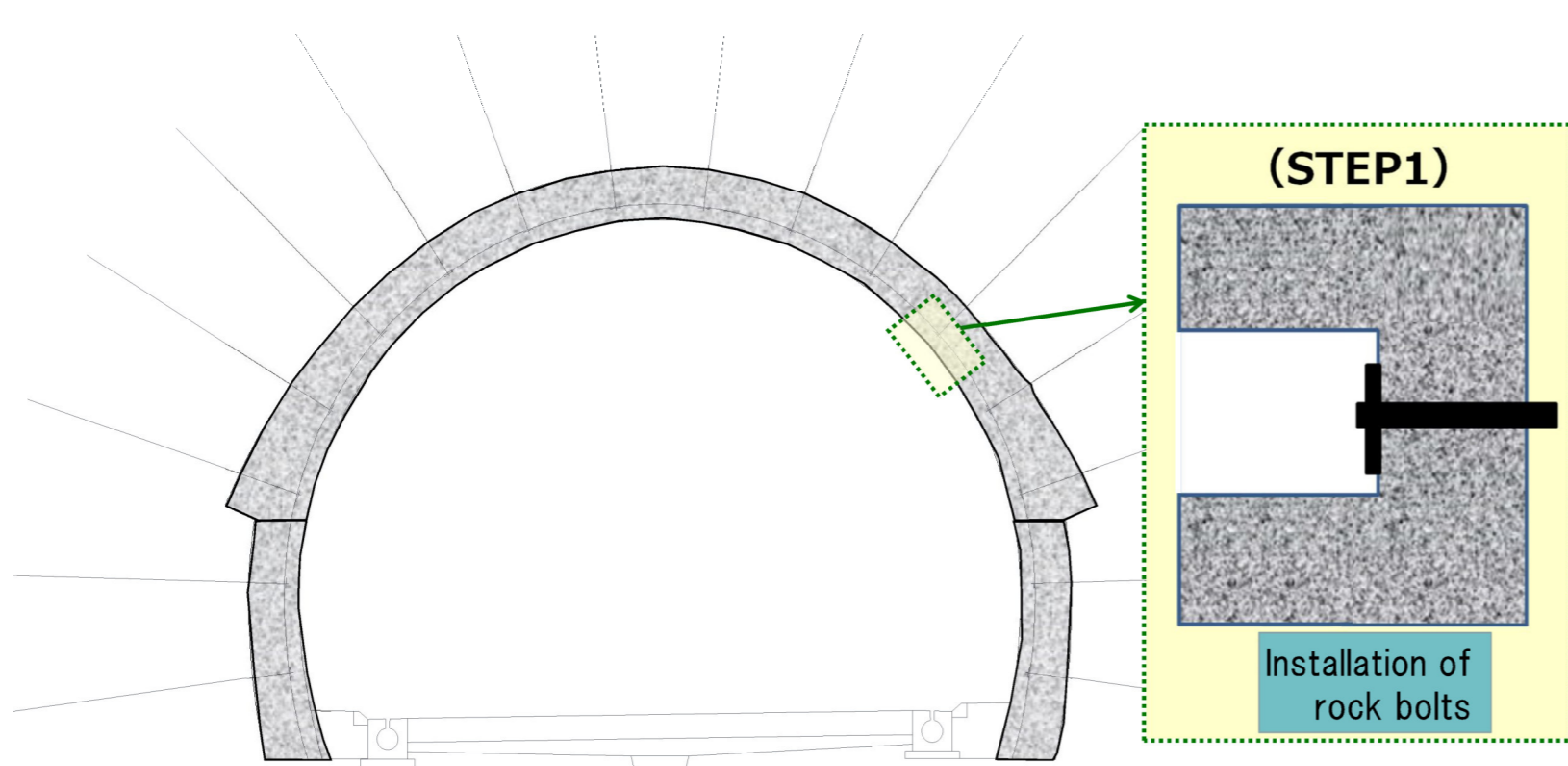
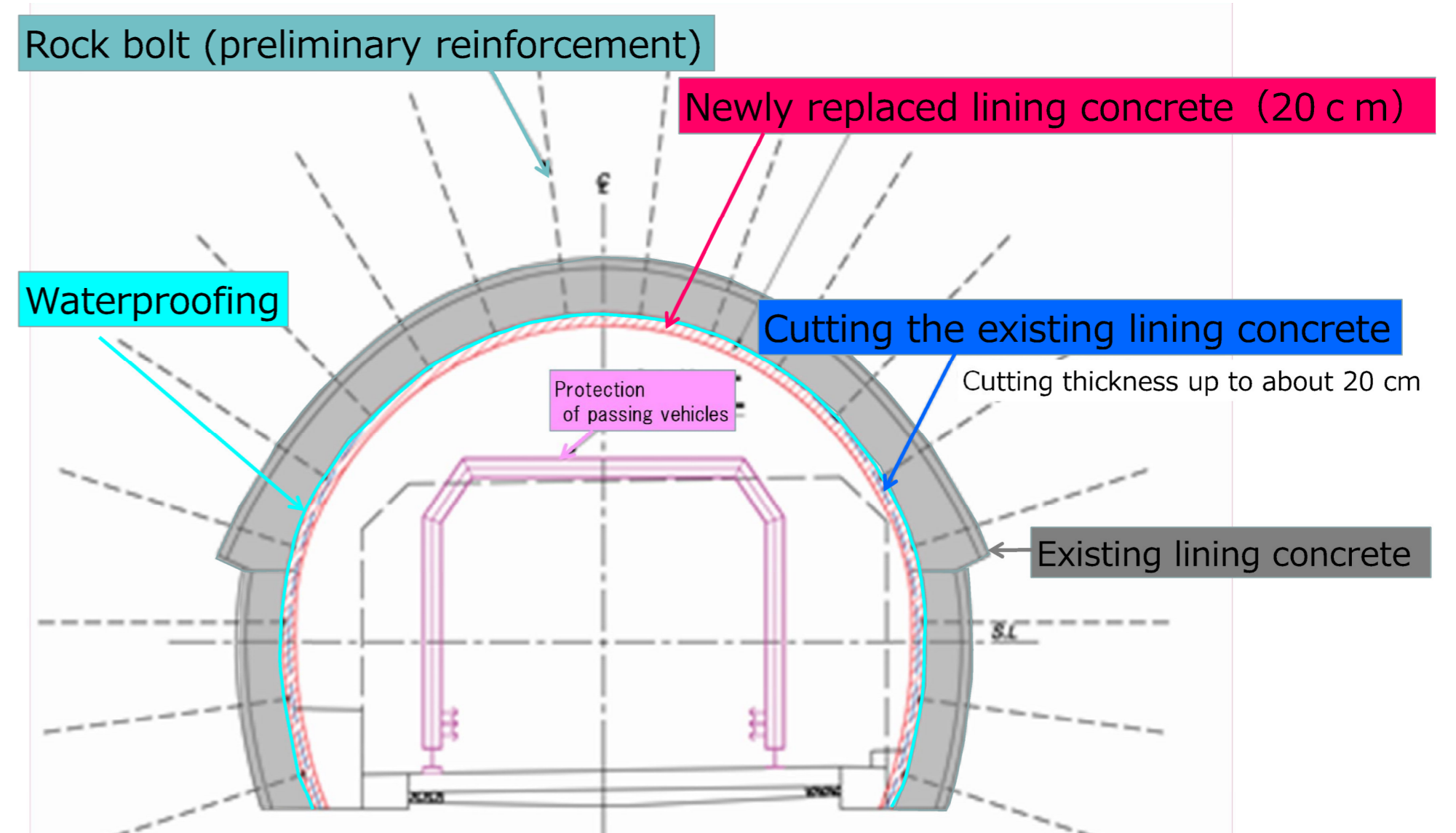
Aged tunnels have no waterproofing



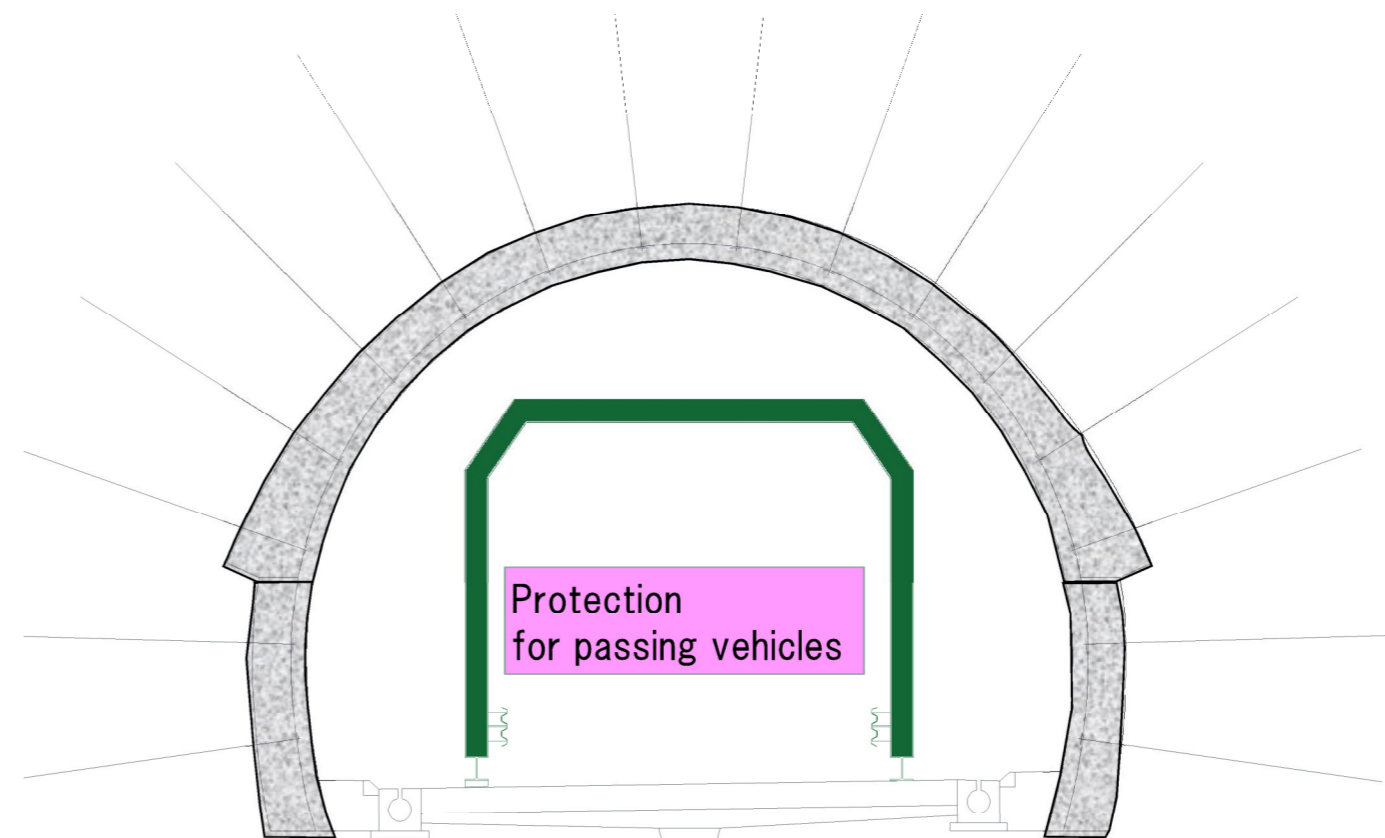
Leakage and Its freezing (icicles)

Construction method to renew a part of the lining concrete

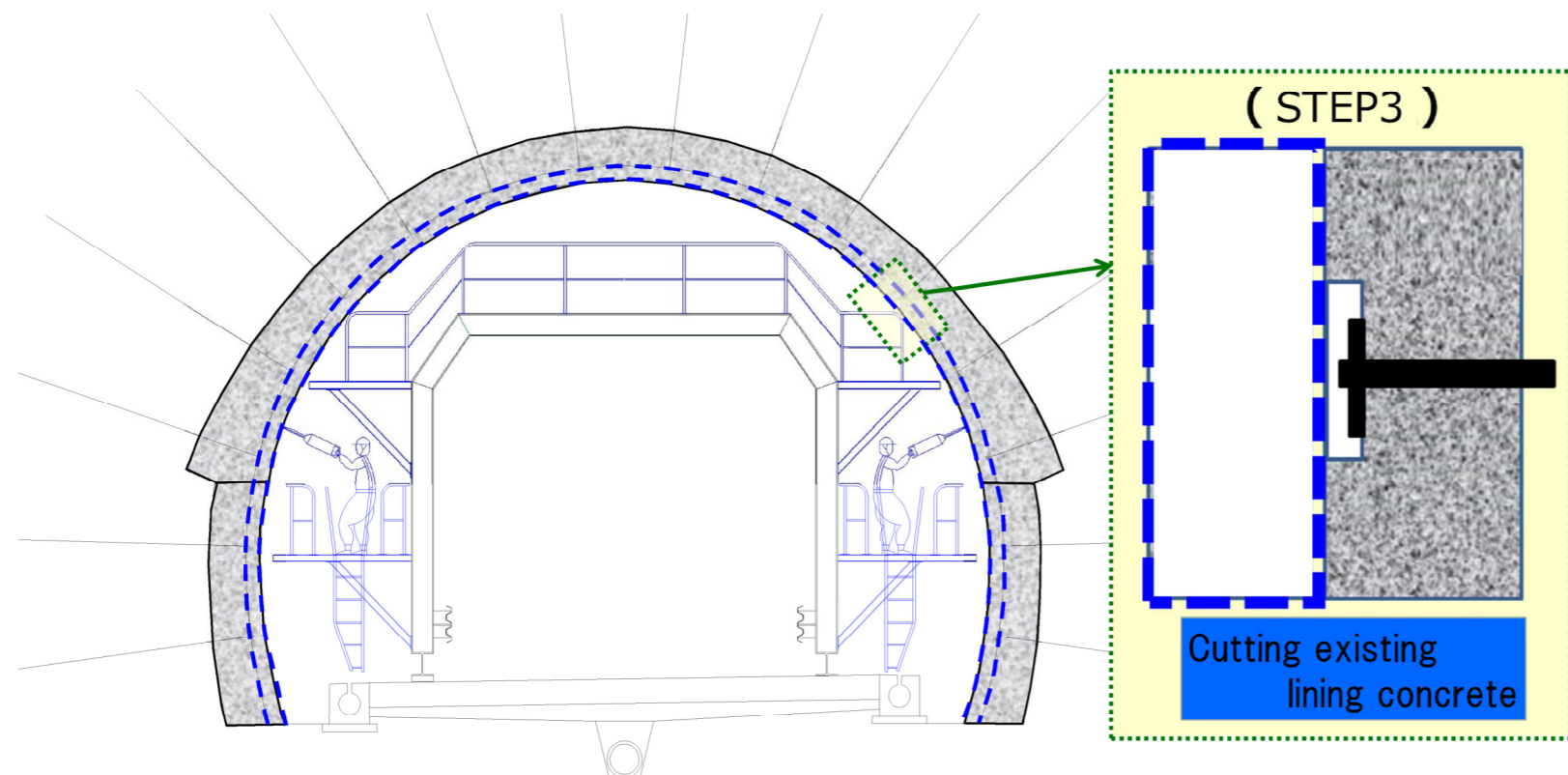
We solve with a new construction method that renews part of the lining concrete.



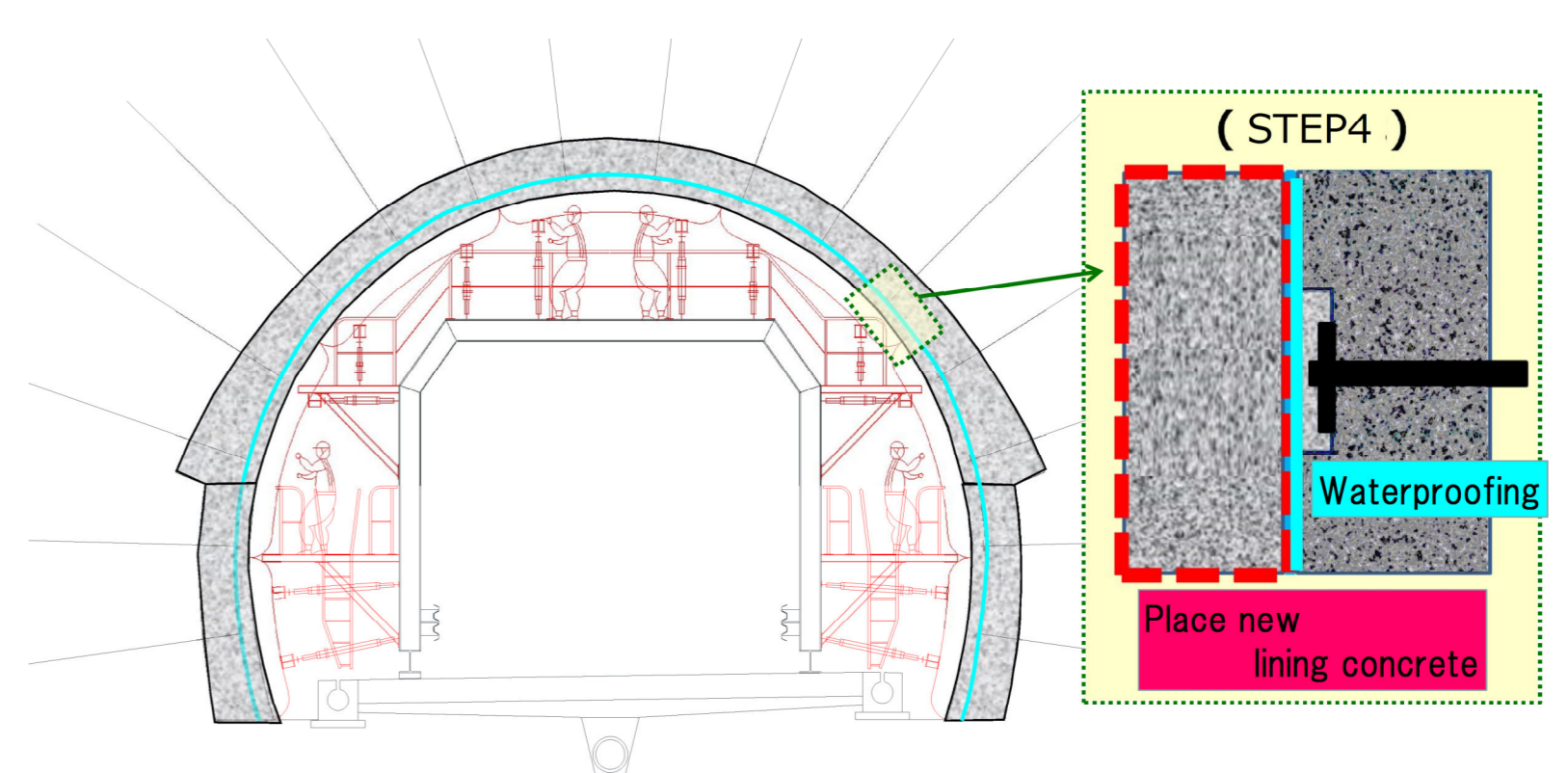
STEP1 Reinforce the tunnel with rock bolts before cutting the existing lining concrete.



STEP2 Installation of Protection



STEP3 Cutting lining concrete



STEP4 Lining concrete placement

