

Disaster Prevention Measures

- Compared to other developed countries, Japan has severe natural conditions including earthquakes, heavy rainfall, steep topography, and vulnerable geological features resulting in a higher propensity for the occurrence of natural disasters.
- To prevent damages due to natural disasters, disaster-resistant roads are maintained implementing organized disaster prevention measures against areas identified as disaster risk points through investigation.

■ Heavy Snow



Impact on road traffic caused by heavy snowfall in Kitami, Hokkaido in 2004



Snow removal

■ Heavy Rain



Damage to roads caused by heavy rain due to Typhoon No. 21 in 2004.



Slope Protection using concrete frame slope protection.

■ Earthquakes



Damage to roads caused by the Great Hanshin-Awaji Earthquake in 1995

[Bridge Restrainer]

A Measure to Prevent Superstructures from Falling Down

Connecting neighboring girders together using steel cables



Preventing girders from falling down using brackets



[Steel Plate Jacket]

A Measure to Strengthen Substructures

Strengthening reinforced concrete bridge piers using steel plate jackets

Strengthening with steel plates

Reinforcing bars added

