



## Description of Event

*The designed location of the vehicle restraint system resulted in working on a potentially wet and slippery sloping surface.*

### Population at Risk

Maintenance Contractors, Supervisors and Members of the Public (MoP).

### Hazardous Activity and Residual Risk Description

- A worker or MoP stepping over a vehicle restraint system to access a place of relative safety or undertake a work activity.
- The residual risk of slipping/falling on sloping ground is assessed as minor.



V channel installed adjacent to vehicle restraint system.

### Potential consequences of this event



Work being undertaken on an inclined slope of a drainage channel.

- Slipping on a wet surface may result in impact and crush injuries to workers if making contact with the barrier.
- An injured person may be located on the live traffic side of the barrier resulting in closure of a lane.

### Safety Hub Alert Database

- Sub-category 2 Slips trips & falls (same level) for Housekeeping has 13 alerts.

### Potential Mitigation Measures

#### Design

- Eliminate hazard by designing a level area between barrier and drain.
- Designer to consider access arrangements due to potential slips/trips hazard.
- Ensure residual hazards are captured in the Health and Safety file.



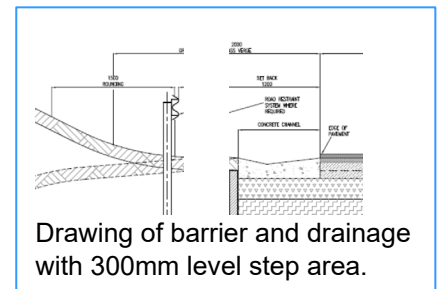
Photo of barrier set back from drainage

#### Construction

- Challenge designs that do not provide a level area.
- Plan ~~work~~ activity to eliminate or reduce requirement to cross barriers.

#### Maintenance / Operations

- Plan work activity to eliminate or reduce requirement to cross barriers.
- Ensure access arrangement are capture in RAMS.
- Consider selecting cab-operated equipment instead of manual tools.



Drawing of barrier and drainage with 300mm level step area.

### Further Guidance and Reading

- [CG 501](#) Design of Highway drainage systems
- [CD 377](#) Requirements for road restraint systems
- [HA 39/98](#) Edge of Pavement Details
- [C652F](#) Safer surfaces to walk on



Please send ideas for Whole Life Design safety shares to [wellbeing@nationalhighways.co.uk](mailto:wellbeing@nationalhighways.co.uk)

LEAN

Improved  
end user  
benefits

Reduced  
Reportable  
Accidents