

## Design Exception by Controlling Criteria

### DS - Design Speed

A DE is required if the design speed does not meet the requirements set forth in [EI C3 – Design Speed](#).

A DE for Design Speed would cover the speed of the roadway as well as any other controlling criteria that are reliant on the Design Speed. If a DE for DS is required, then HC, SR, SSD, and CZ, among others, would then need to meet the criteria for the new DS.

### LW - Lane Width

A DE is required if the lane width does not meet the requirements set forth in [EI C1 – Lane and Shoulder Widths](#).

### SW - Shoulder Width

A DE is required if the shoulder width does not meet the requirements set forth in [EI C1 – Lane and Shoulder Widths](#).

### HC - Horizontal Curve Radius

A DE is required if the minimum radius for the DS is not met as set forth in [EI C7 – Horizontal Curve Radius](#) or in the *AASHTO Green Book*.

### SR - Superelevation Rate

A DE is required if the SE for the DS, as set forth in [EI C6 – Superelevation Rate](#) or in the *AASHTO Green Book*, is not met or exceeded.

### MG - Maximum Grade

A DE is required if the MG for the roadway exceeds the allowable grades in [EI C5 – Maximum Gradient](#), or if the minimum grade is not met.

### SSD - Stopping Sight Distance

A DE is required if the SSD for crest vertical curves for the DS is not met. See [EI C8 – Stopping Sight Distance](#) and [Design Guidance - Sag Vertical Curves](#) for additional information. A DE is required if the SSD (HSO) Horizontally for the DS is not met.

### CS - Cross Slope

A DE is required if the CS does not meet the requirements as set forth in [EI C4 - Cross Slope](#).

### VC - Vertical Clearance

A DE is required if the VC is less than the requirements as set forth in [EI C9 – Vertical Clearance](#) or in the *AASHTO Green Book*.

### SC - Structural Capacity

A DE is required if the SC does not meet the requirements as set forth in the [Bridge Design Guide](#) or according to AASHTO.

### CZ - Clear Zone

A DE is required if the CZ does not meet the requirements as set forth in [EI C2 - Clear Zone](#).