

Resilience Webinar – Questions and Answers

The questions submitted during the webinar follow with answers that our speakers have provided.

1. Has there been any work done looking at the performance of permeable vs impermeable base types under inundation conditions? Pennsylvania

I've done a quick search and I'm not aware of any research comparing the performance of permeable versus impermeable base types under inundated conditions? I think it is a great question and hope this (research) can be accomplished at some point. I do know that when permeable treated layers are not allowed to drain (typically due to poor maintenance), stripping of the binder can result and failure of these layers has been observed. I will attach a FDOT report.

2. Generally not required to do more than 4 days, but certainly understand that a lot of fine-grained soils will not be fully saturated in 4 days so that the soaked CBR is NOT representative of the potential loss of strength in a fully or even partially saturated condition. Failures are usually identified after several years because the soils do not drain well over time. Maryland

Noted – thank you

3. FDR slide should be updated to show a concrete layer as the surface layer to create a stiffer more resilient surface as well as increase the height of the surface above the anticipated water levels, Maryland

Noted – thank you

4. Plan could also include heavy load routes. If you have industries that have large equipment or produces large loads, a known route and design/maintenance of that route is desired. This reduces the damage to other primary roads. I am not just talking truck routes but that is another thing that needs hardening for both the street and the subsurface infrastructure. Iowa

Noted – thank you