

# Porous Asphalt Pavements

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Photo courtesy Cahill Associates





# What are Porous Pavements?

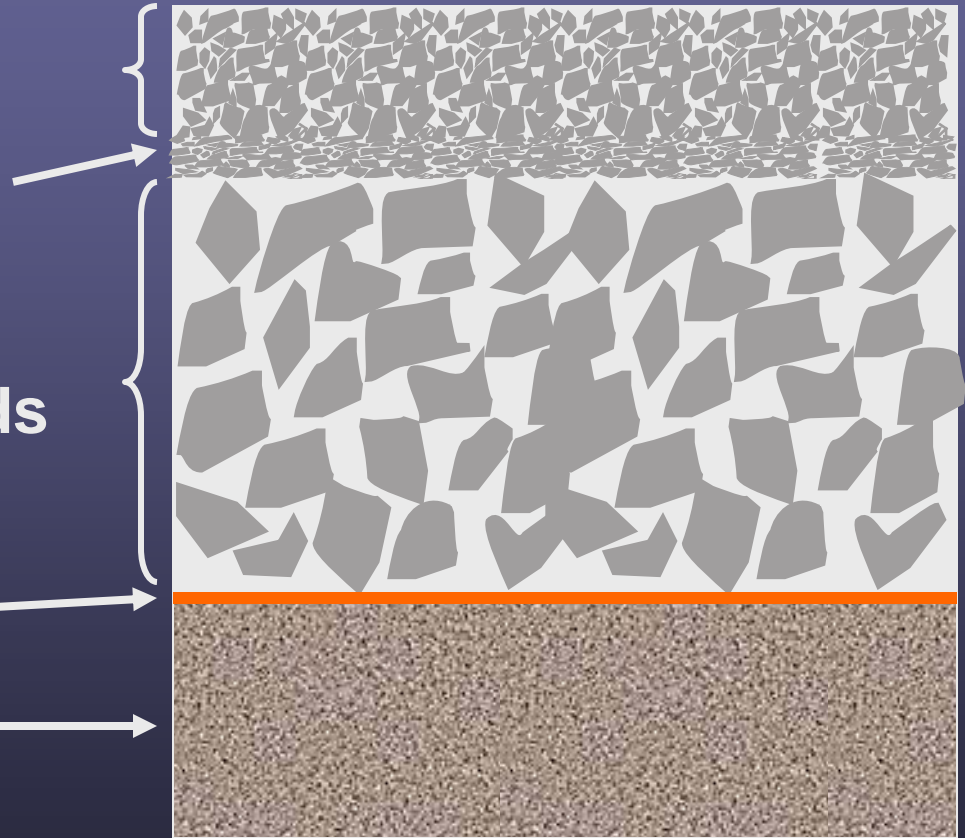
Open-Graded HMA

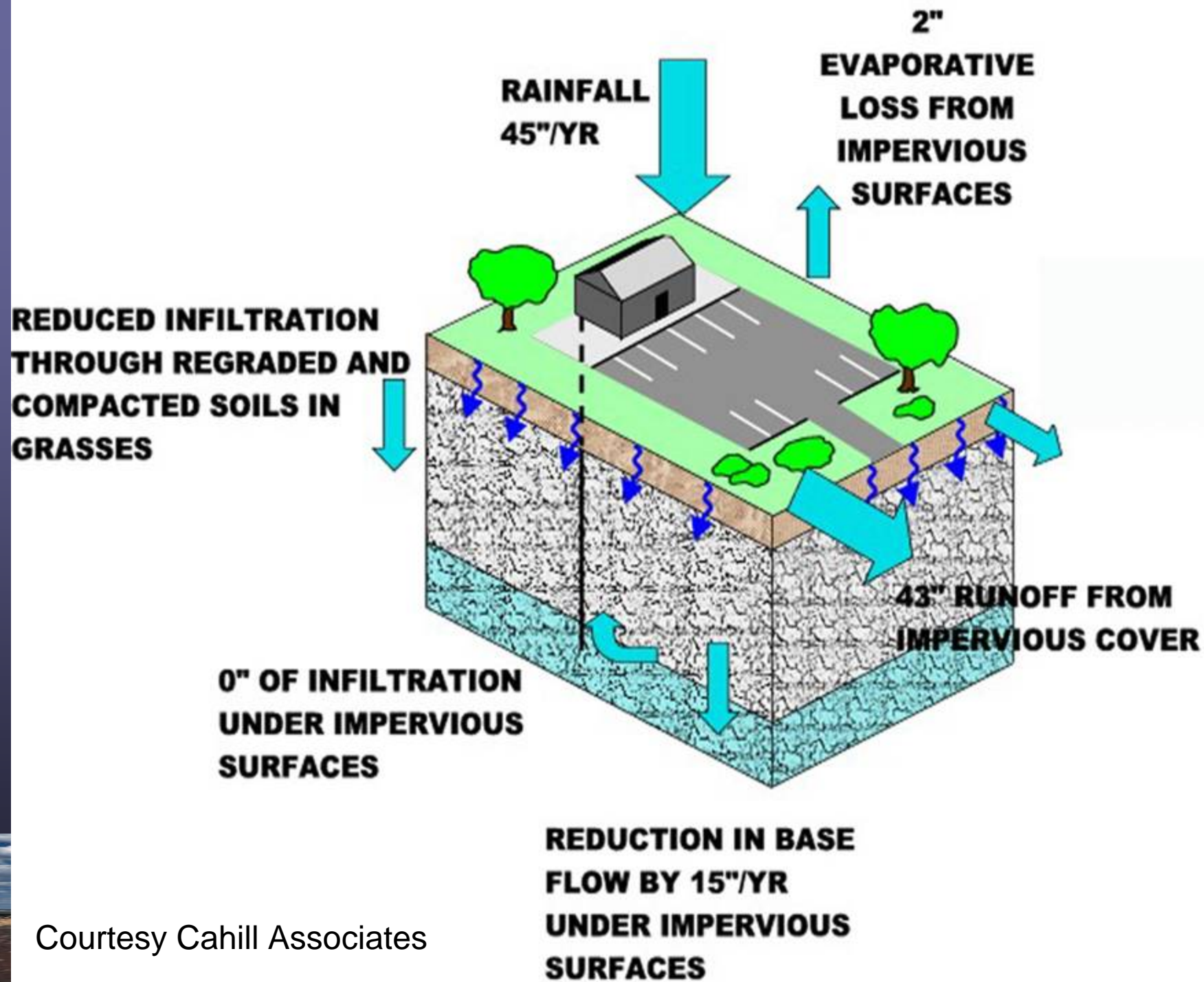
1/2" Aggregate

Clean Uniformly Graded—  
40% Voids

Non-Woven Geotextile

Uncompacted Subgrade





Courtesy Cahill Associates







Courtesy Cahill Associates



# Design

## Regulations

- Rainfall
  - Typical designs for 6 month/24 hr storm
  - Conservative design for 20 year/24 hr storm range from 1.4 to 15 in./24 hr.
- Meet Local & State BMP requirements.



# Keys to Success – Design

## Usage / Vehicle Loading

### Lightly loaded areas

- Parking lots
- Low volume roads (limited truck use)
- Recreational Areas





# Keys to Success – Construction

- Build porous pavement last
  - Protect from construction debris
  - Protect from soil laden runoff
- Protect site from heavy equipment
  - Don't compact subgrade
- Excavate to subgrade (soft footprint)
- Place filter fabric





Courtesy Cahill Associates





# Conclusions

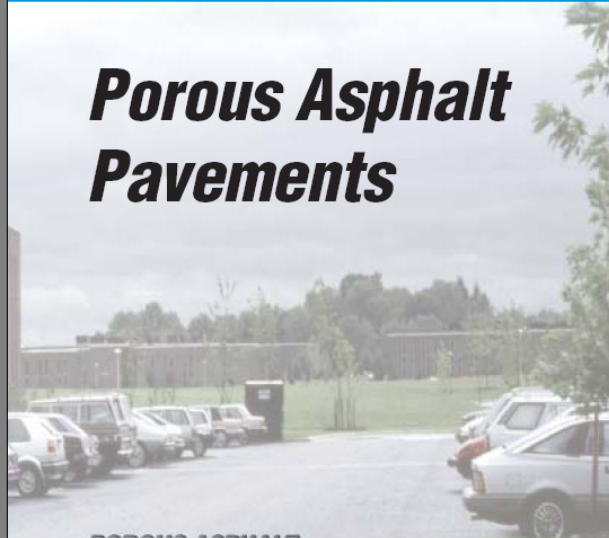
- Porous pavements offer good alternative to conventional stormwater mitigation
- Site Conditions must be right
- Need to protect pavement from contamination during and after construction



*Information Series 131*



# ***Porous Asphalt Pavements***



POROUS ASPHALT  
STANDARD ASPHALT

