


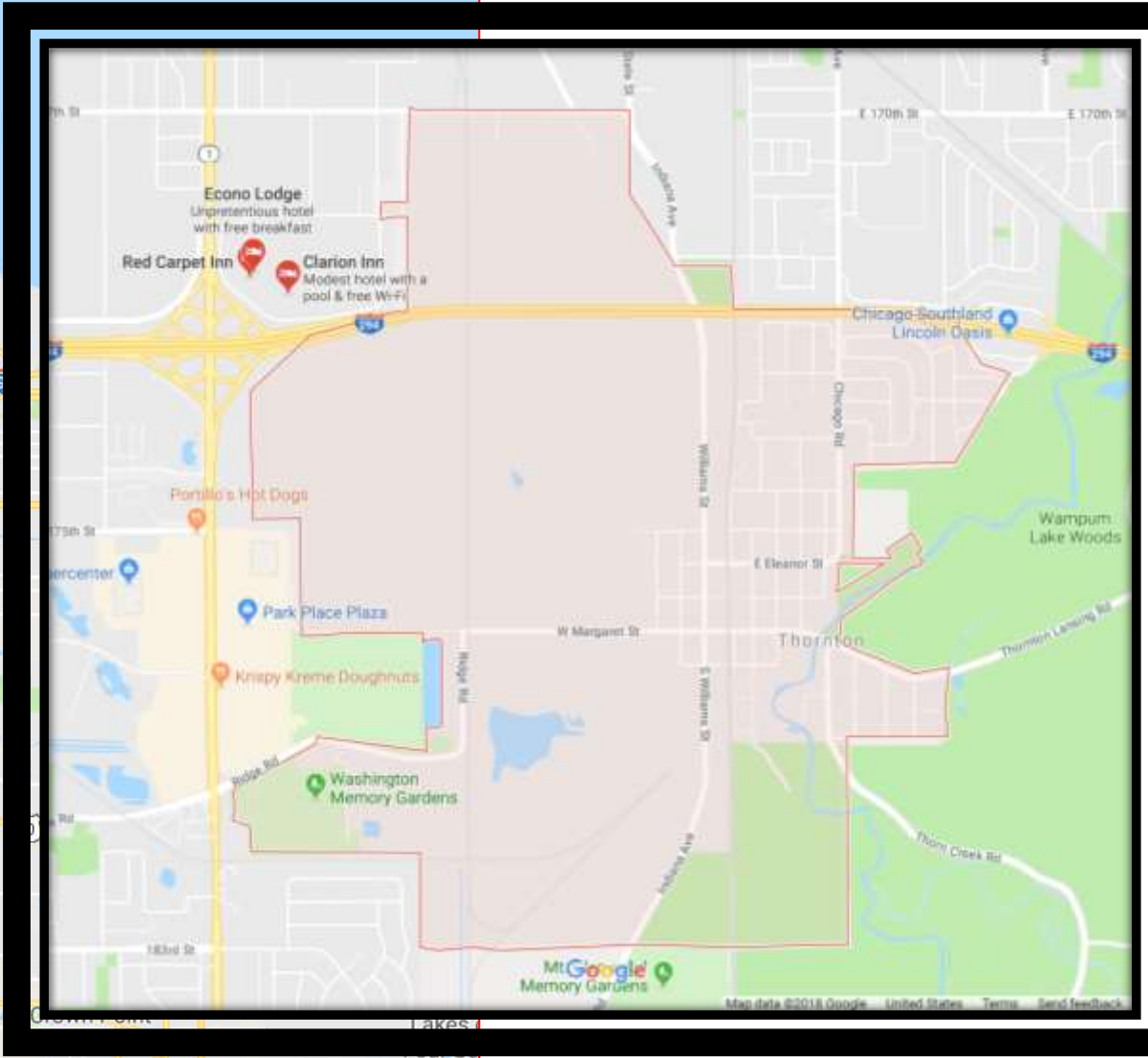
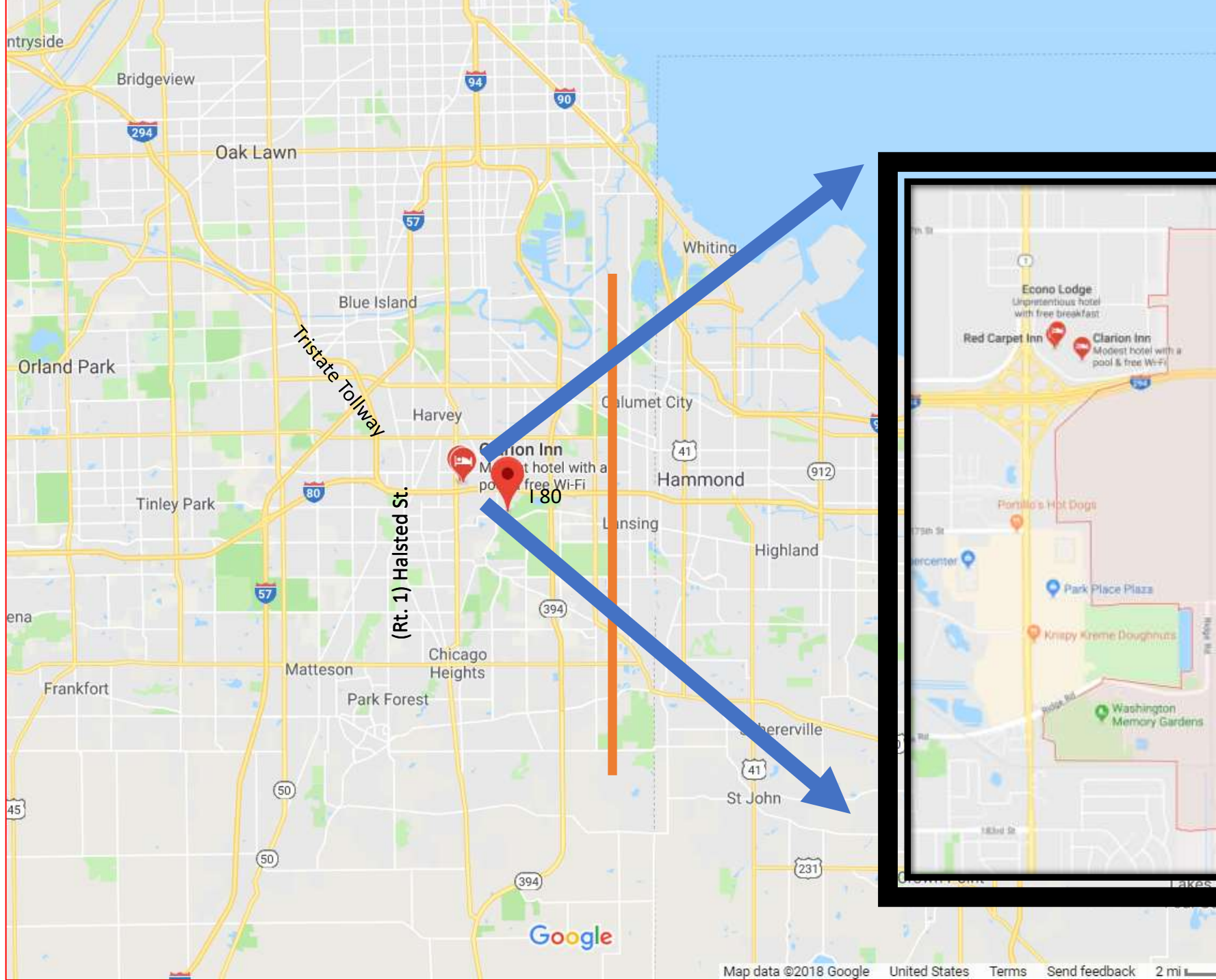
# Williams Street- Taming Rutting and Cracking



- One project
- Limited Data sets

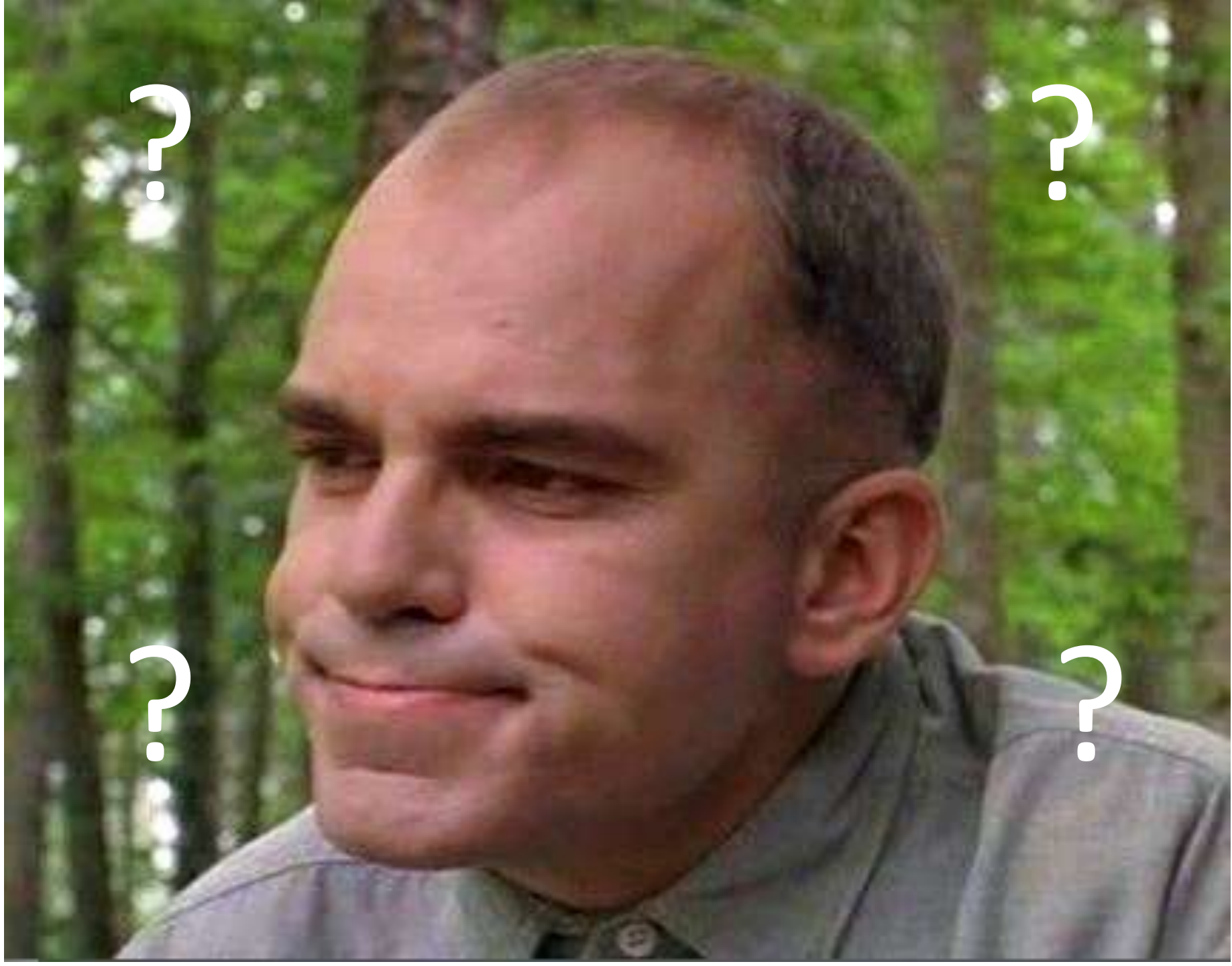


- 
- Full Depth SMA
  - 10" cross section
  - 20 years







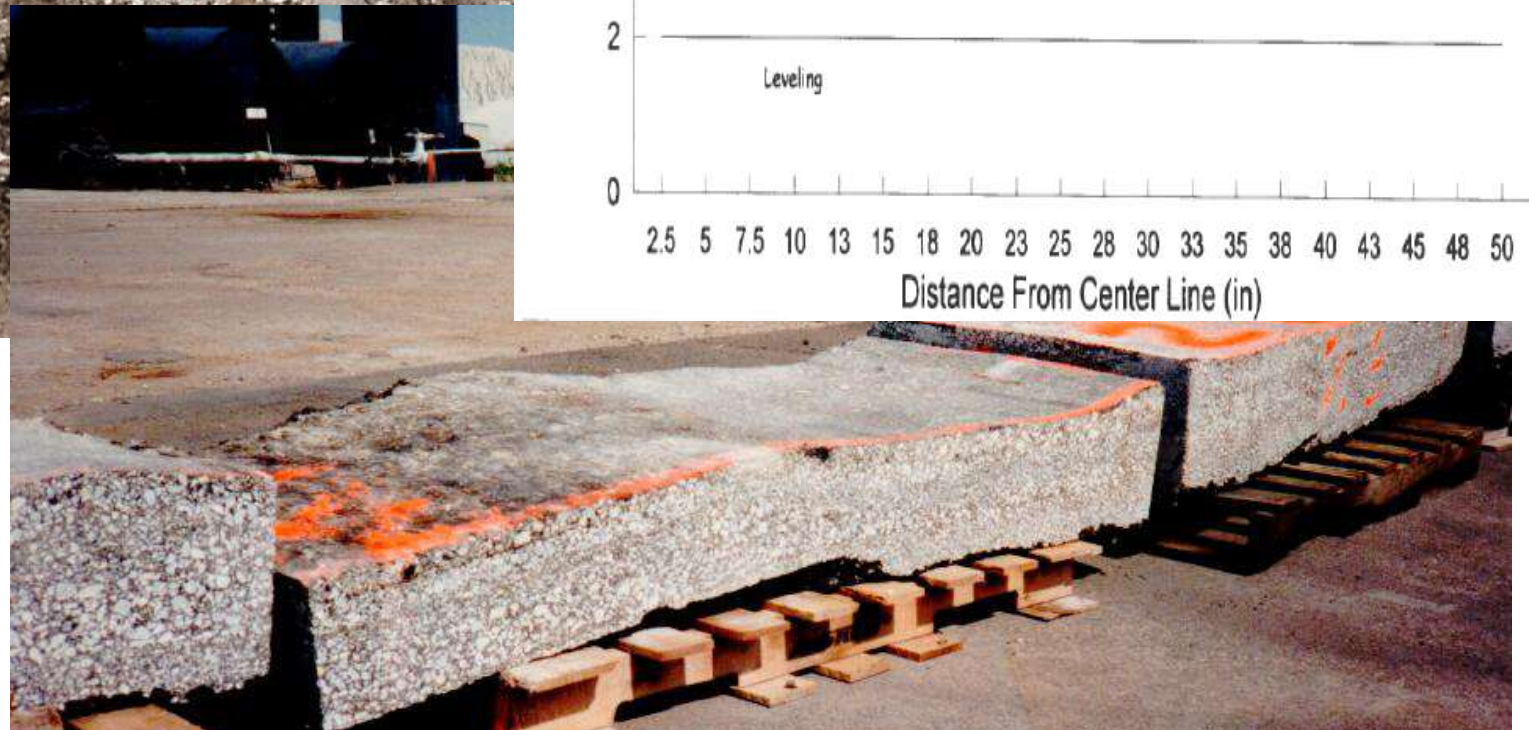
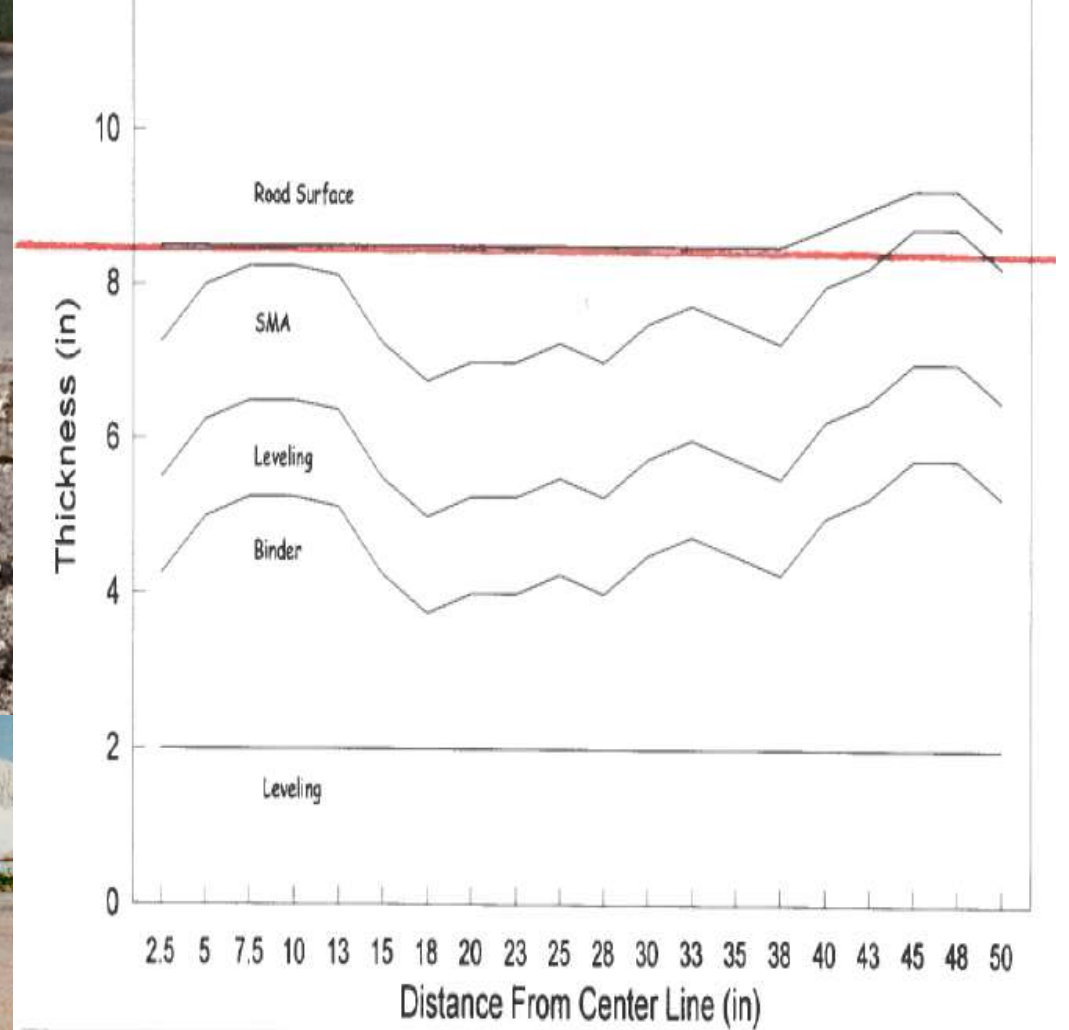




HANNAMAN & LAUNEY,  
Shelbyville, Ills.







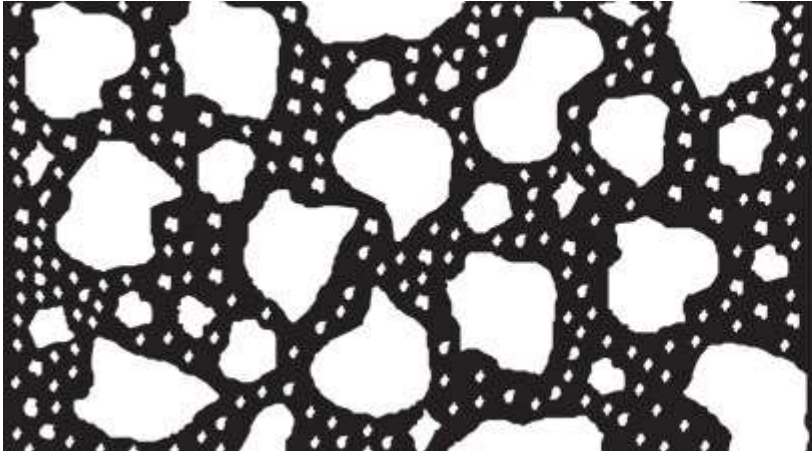


Gallagher  
Asphalt  
Corporation

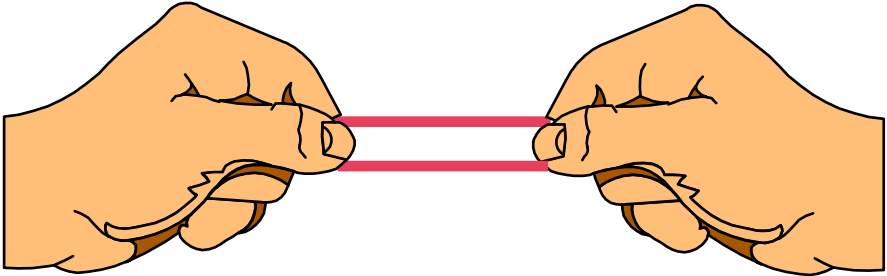
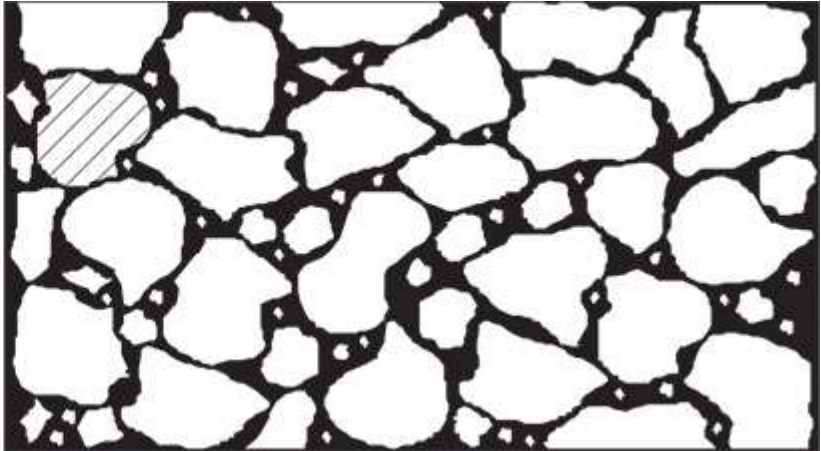


# Stone Matrix Asphalt/Stone Mastic Asphalt/SMA/Kiel

Conventional Dense Graded



SMA



2017

- 20 years of service
- 20.7 M ESAL
- Minimal Cracking
- Negligible Rutting







Connected!

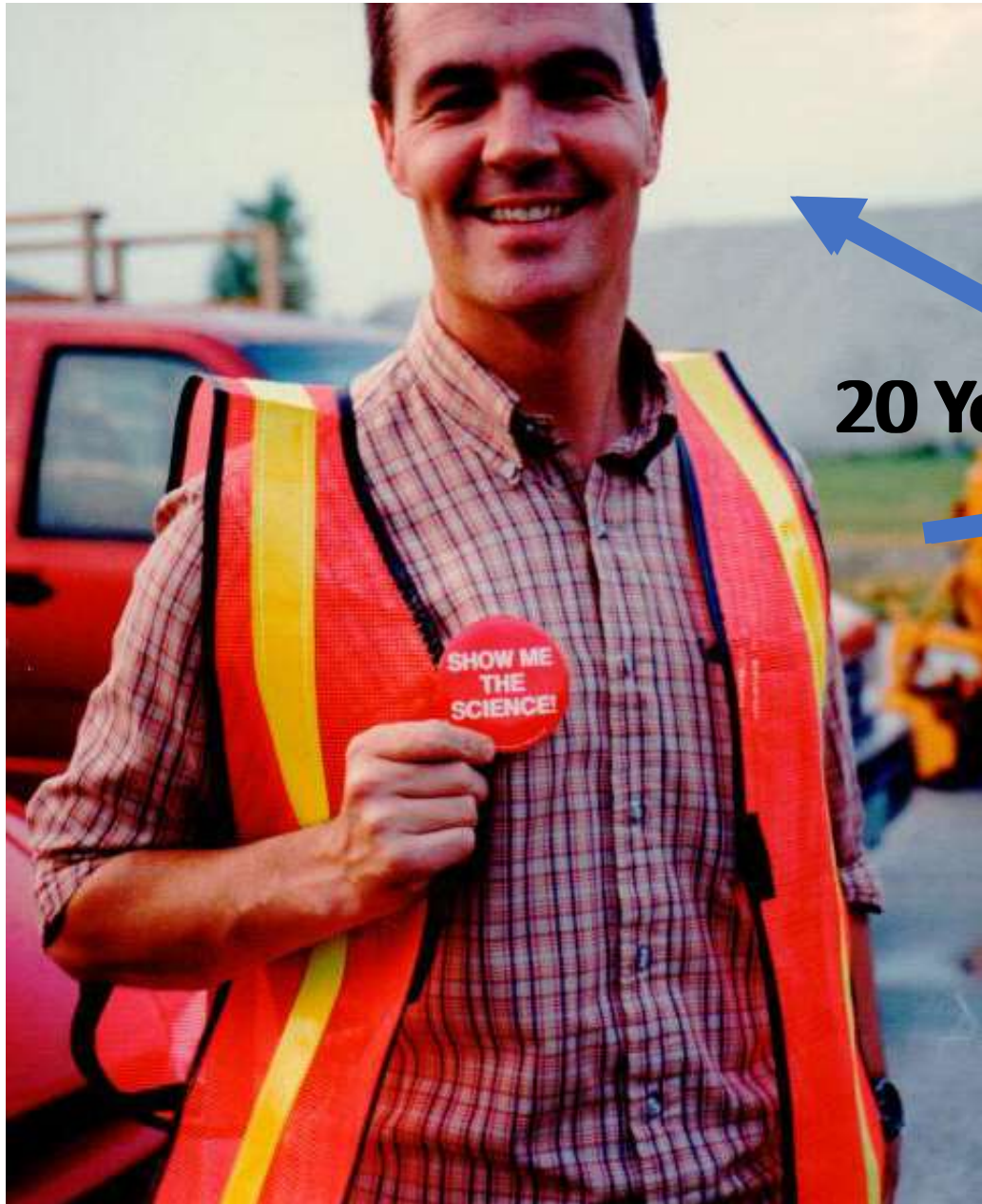
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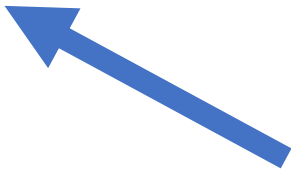
20 Years





**20 Years**





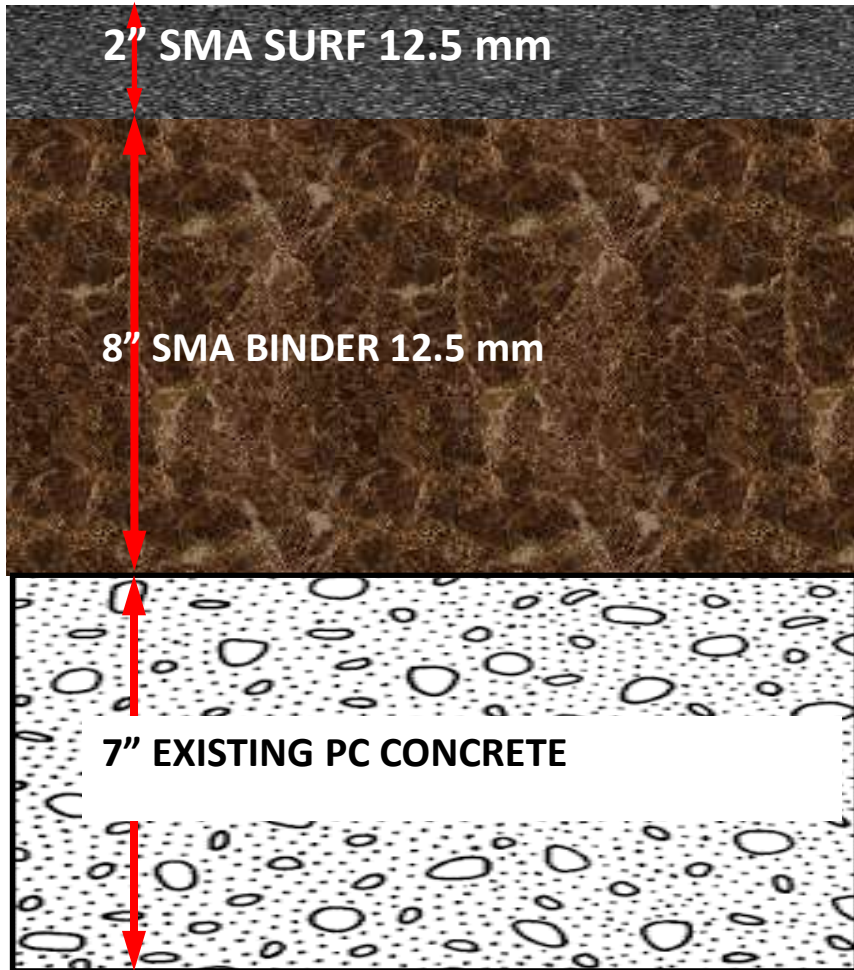
20 Years



- Marshall vs. Superpave
- PG grading
- Hamburg
- Illinois Flexibility Index Test







**SBS PG 82-22**

**+2/+1 Grade**

**FI 4.5**

**SBS PG 76-22**

**+1/+1 Grade**

**FI 15**









20 Years

