Design Life: 100-years
Sounds Good!

An Overview of Design and Service Life

2019 NCTCOG Public Works Roundup
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Mathew Busby, PE

10+ Years of Experience

- Background in procurement, design, and construction
- Worked with a wide range of municipalities and public agencies throughout Texas
Definitions

**Design Life**
Period of time during which the system is expected by its designers to operate *within its specified parameters*

**Service Life**
Time during which a product, process, or service *actually* performs within its specified parameters

**Pipe Associations**
Unibell, PPI, DIPRA, ACPA

**American Association of State Highway Transportation Officials (AASHTO)**
Pavement Design Guide
Design Life

- PVC, HDPE, DIP
- Pavement
- Engineering longer life
Service Life

External Influences

Improvements

→ Build it right!
→ Maintain it!
→ Fix it *before* it breaks!
Questions