

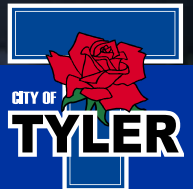
# Tyler, Texas Wastewater Rehabilitation Strategy & Lessons Learned

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Lockwood, Andrews  
& Newnam, Inc.  
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## Tyler, Texas

- Rose Capital of America
- 115,000 population
- Two wastewater plants
- Collection system about 690 miles of gravity mains, 11,000 manholes, and 18 miles of force mains; 24 lift stations







## Consent Decree

- Effective April 2017
- 10-year timeframe
- CMOM Program
- Improvements based on capacity and condition

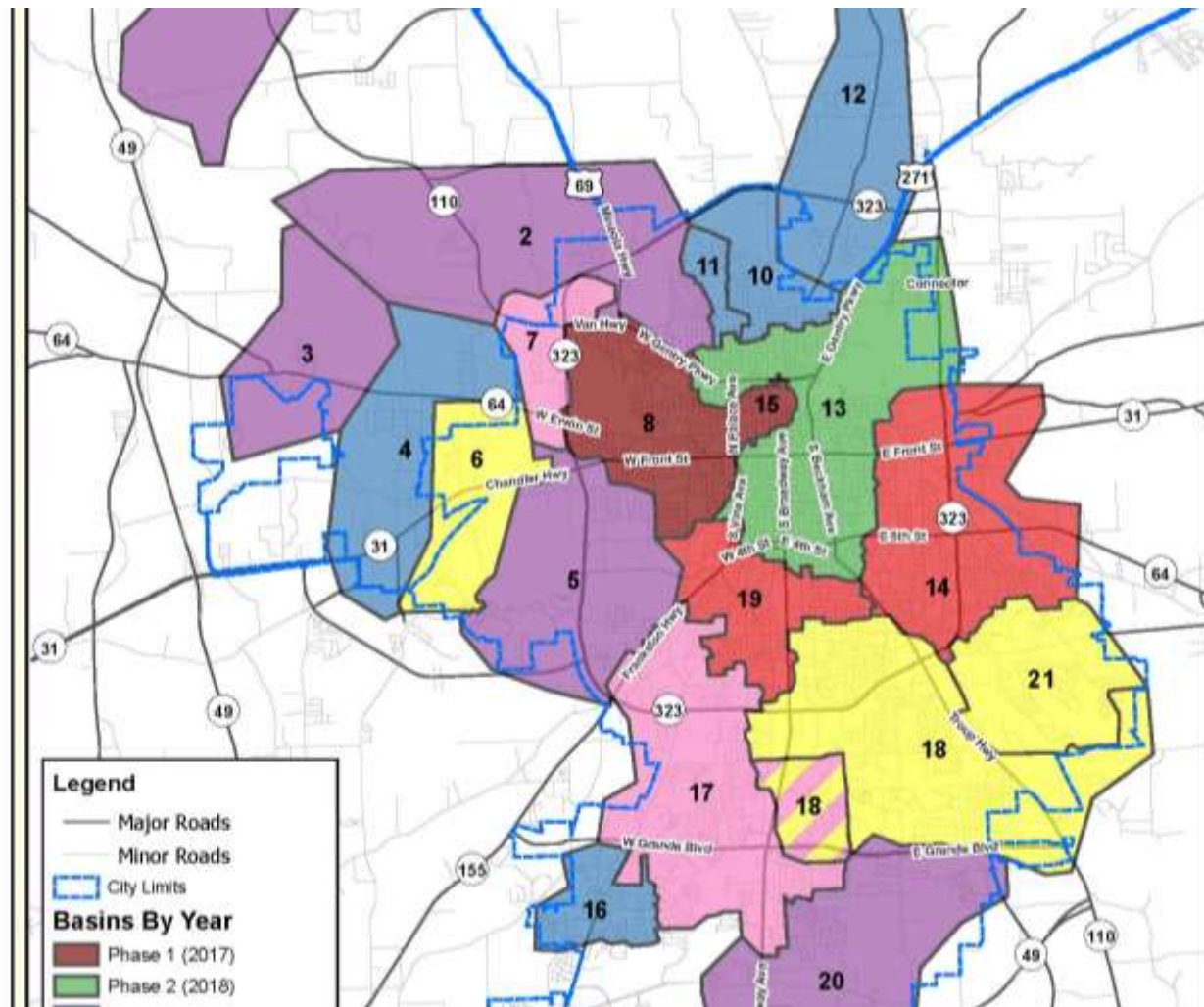






## Response Plan

- Hydraulic model
- 20 flow basins





## Consent Decree Details

- Gain access
- Clean collection system
- CCTV and MSI
- Rehabilitate assets with D and E ratings
- Monitor rest in CMOM

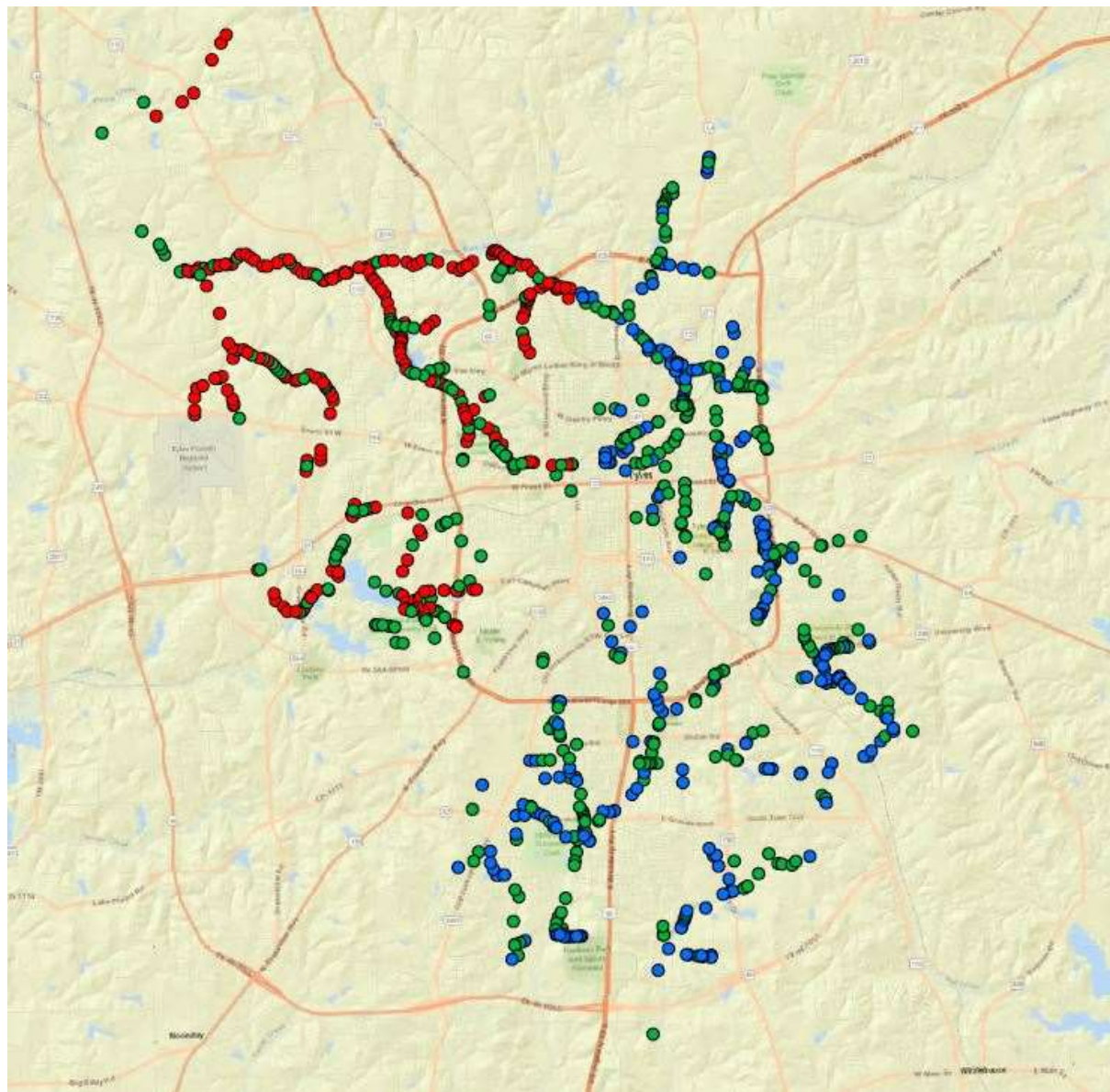






## Group 1 Remediation

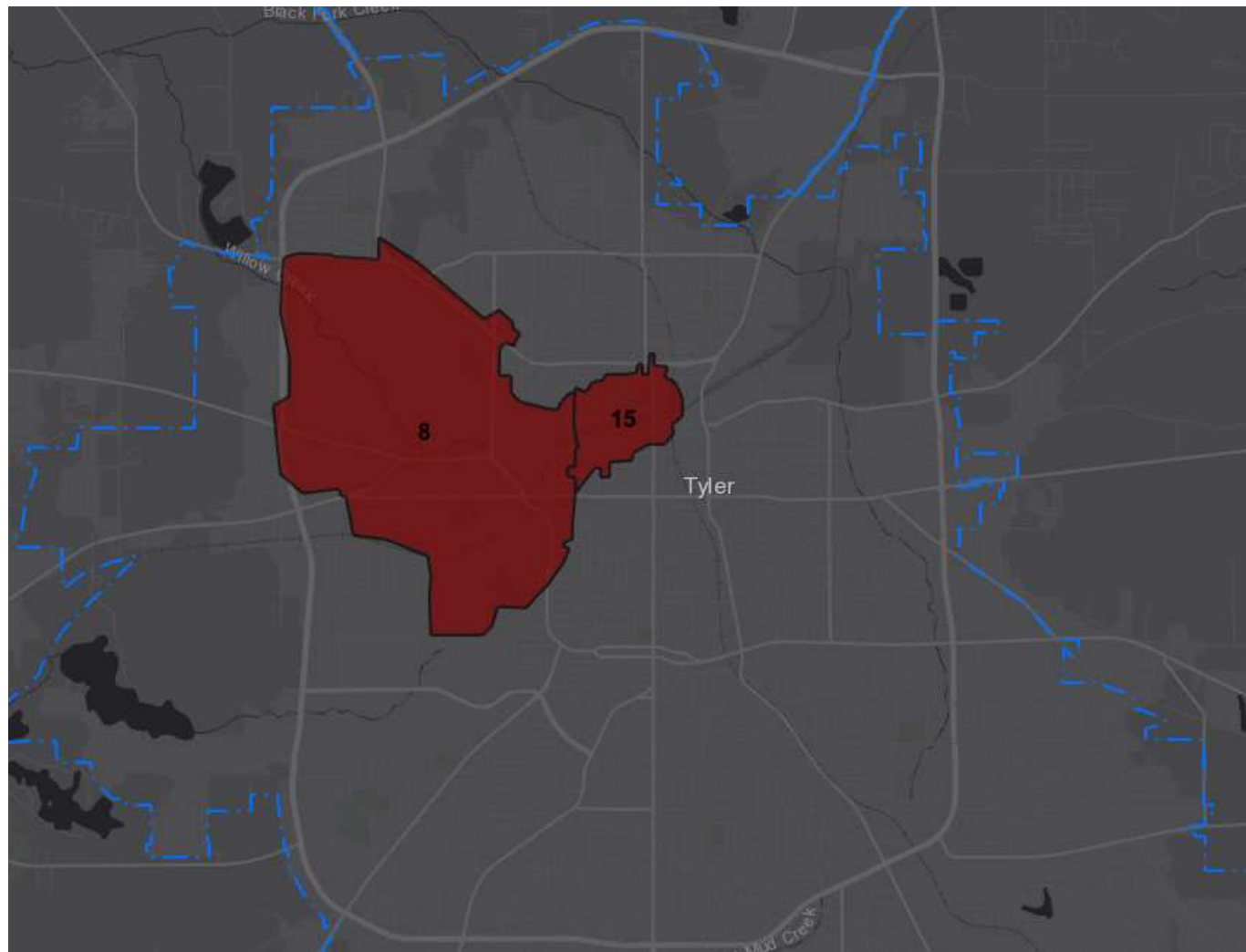
- 2017 Inspection
- Schedule Requirements
  - Fall 2018 start
  - February 2021 completion
- 897 Manholes
  - All manholes in system on lines  $\geq 10$ -inch





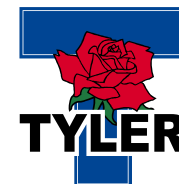
## Group 1 Remediation

- 47,000 LF of Pipe Rehabilitation
  - Sewer Basins 8 & 15
  - CIPP: 5,997 LF
  - Pipe Burst: 37,629 LF
  - Point Repair: 240
  - Open Cut: 2,920 LF
  - Reroute: 2,218 LF





- Site visit
- Specification development
- Engineering Design
  - Traditional design (open-cut packages)
  - GIS plans production (rehab packages)

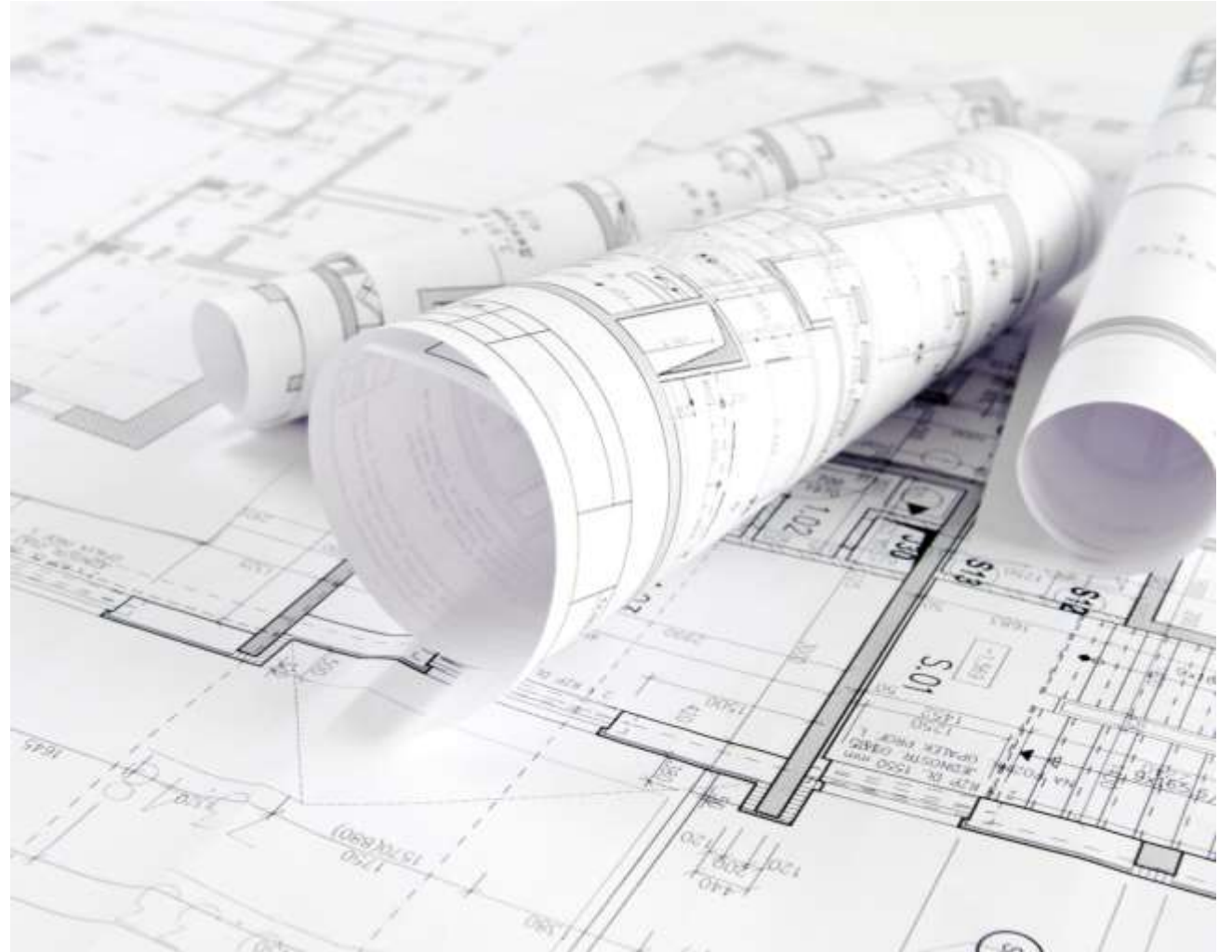






## Contracting

- Division of work packages
  - Technology
  - Contract size
- Contracting
  - Hard bid
  - Cooperative purchasing







## Construction

- Changed field conditions
- Assets “touched twice”
- Contractor coordination
- Acceptance testing







## Lessons Learned

- Changes implemented in future Groups
- MSI inspection







## Lessons Learned

- "Measure twice"
- Juggling repairs
- Capacity
- Flexibility
- Purchasing Cooperative



# Questions



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