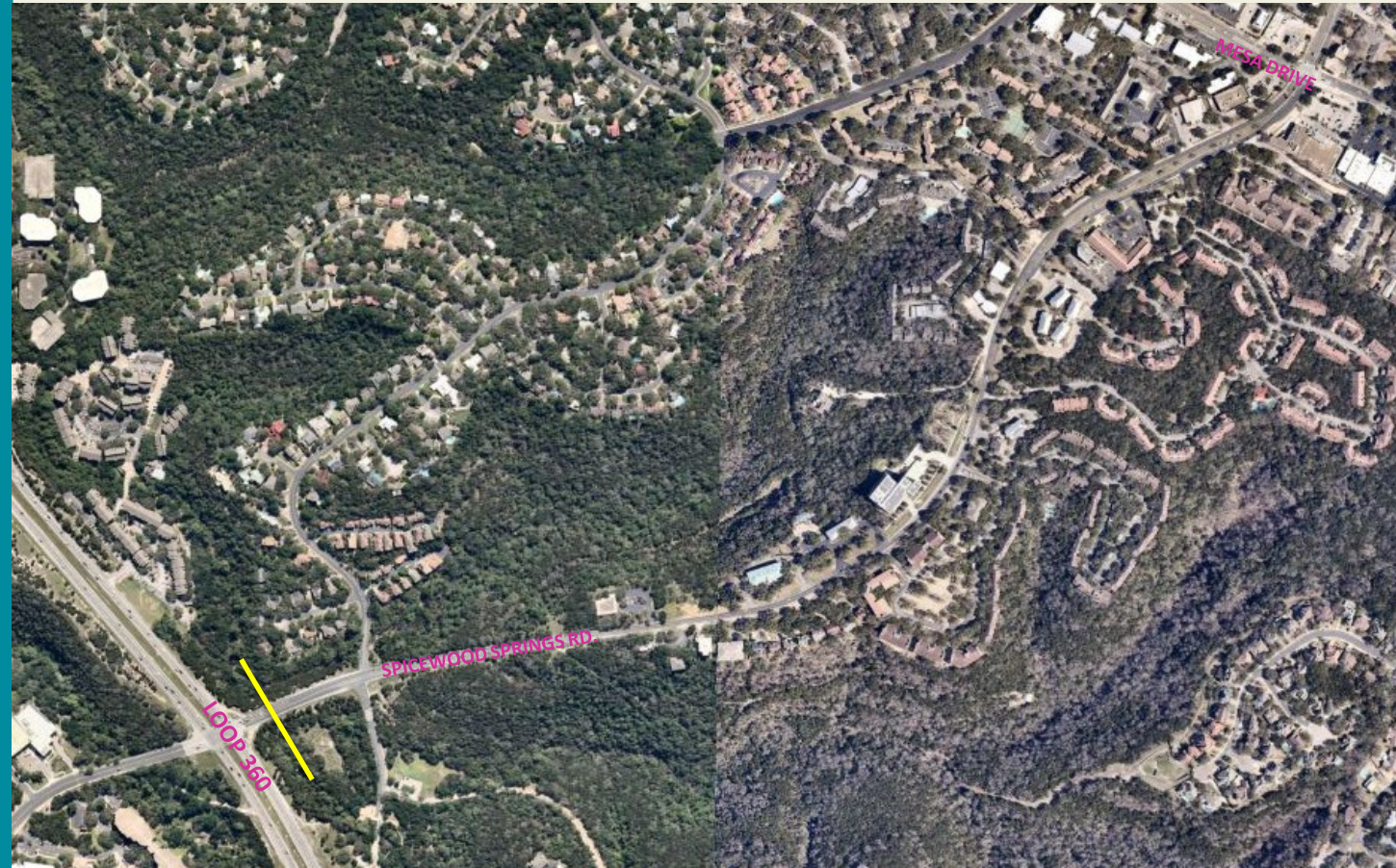


CITY OF AUSTIN  
PUBLIC WORKS DEPARTMENT

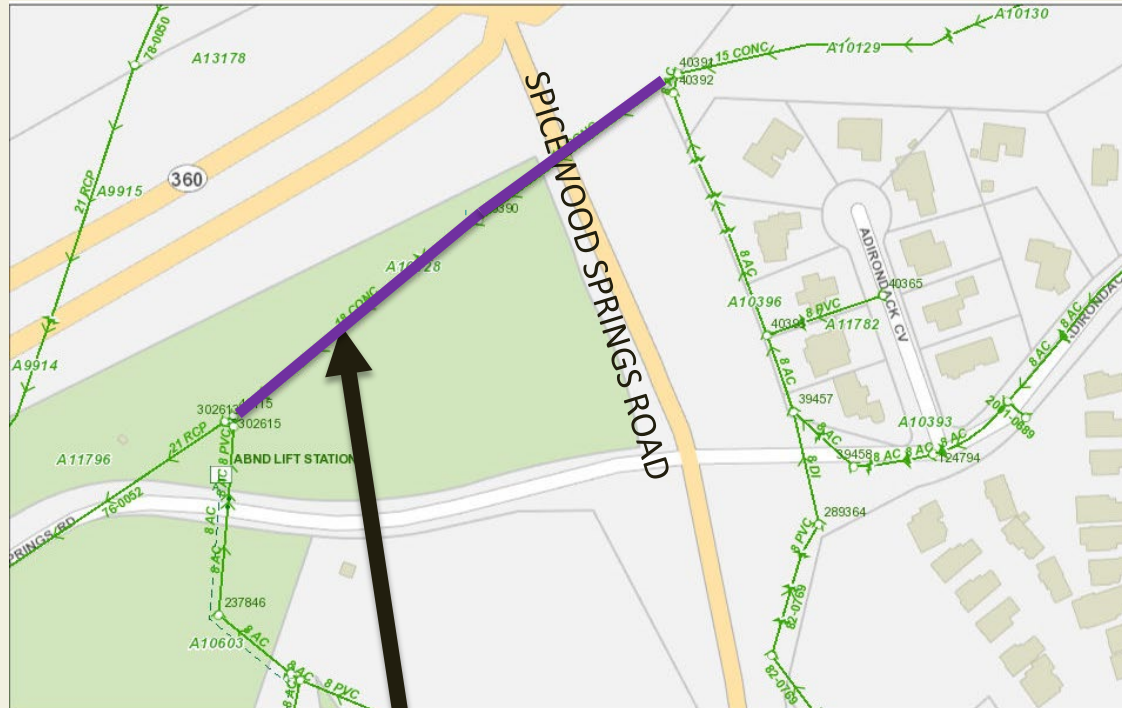
# SPICEWOOD SPRINGS ROAD REGIONAL MOBILITY IMPROVEMENTS

Wastewater Rehabilitation in Critical  
Natural Resources

CONNECTING YOU  
ALL AROUND AUSTIN



# Project Location / Background



**DETERIORATED CONCRETE PIPE  
(END OF SERVICE LIFE)**

- Identified Needing Rehabilitation
  - Approx. 779 LF 18" Concrete Pipe and Manholes (Built 1972)

- Critical Pipe Characteristics
  - Critical Condition- A failure may impact health & safety
  - Possible obstruction in pipe
  - Pipe is in the bed of tributary of Bull Creek.
- Location Characteristics
  - Edwards Aquifer Recharge Zone according to City of Austin
  - Golden-cheeked Warbler – Zone 1
  - Endangered Cave Species Habitat Karst – Zone 1
- Location Characteristics
  - Erosion Hazard Zone
  - Critical Water Quality Zone
  - BCCP zone
  - Threatened Salamanders in creek
  - 100 YR Floodplain



# Cured-In-Place Pipe Rehabilitation

- Approx. 779 LF 18" pipe to be rehabilitated
- Use one manhole MH#40115 to insert liner and other manhole MH#40391 to capture liner
- Minimal impact to Environment
- Bypass pumping pipe to be routed through the top culvert to minimize impact to salamanders and traffic
- Construction method eliminates the need for US Fish and Wildlife permit
- Increase life of pipe with minimal disturbance to creek



# PROJECT DETAILS

<b>Construction Cost Estimate</b>	<b>\$250,000</b>
<b>Area of Parkland needed for temporary use:</b>	1,066 sq. ft. for work area. 6,138 sq. ft. for staging area
<b>Permitting</b>	Site Plan Development Permit, Temporary traffic control permit from TxDOT, Balcones Conservation Canyon Preserve, Stormwater Pollution Prevention Plan.
<b>Design &amp; Permitting Duration</b>	6 months
<b>Construction Duration</b>	2 weeks installation; One-month total construction time
<b>Construction Method</b>	Cured in place Rehabilitation
<b>Tree Impact</b>	Trim trees for clearance
<b>Public Impact</b>	Block section of Trail and parking lot while rehabilitating segment in Parkland and during spoils removal.