



REDBUD TRAIL BRIDGE PROJECT

Pedestrian Advisory Council (PAC) Meeting

Monday June 1, 2020 – 6:00 p.m.

Via Videoconferencing



Redbud Trail Bridge Project

Background



Core Issues

- Originally built in 1948, structures are over 70 years old.
- Bridges used by more than 16,000 vehicles per day — critical commuter route.
- Many bridges of this age were designed for lighter truck loadings and a 50-year design life. Trucks in 1940s were about one half the weight of today's trucks.
- Bridges are critical to the servicing and operation of the Ulrich WTP (UWTP) facility due to requirements restricting all UWTP traffic to Redbud Trail.

Critical Utility Link

- Bridge carries process wastewater lines from UWTP as well as residential water/wastewater.
- These utility lines (and supporting bridge structures) are essential to the UWTP operations.
- A disruption to these process lines for even a brief period could cause a shutdown of a plant that provides drinking water to a large segment of Austin.

Flooding

- In a 100 year flood event, the bridge would be about 6 inches under water subjecting road and utilities to flood and debris/damage. Bridge could stay out of service for up to 3 days, not including time to address flood damage.

Funding

- Estimated cost is \$50 million
- Funding sources: 2012 bond program - Prop 12 and 2018 bond program - Prop G
- City is seeking additional funding opportunities



Redbud Trail Bridge Project

Why is a New Bridge Needed at Redbud Trail?

Need: What problems are we trying to address?

- Bridge is beyond structural life span
- Insufficient roadway shoulders on bridge
- Insufficient bike/pedestrian paths on bridge
- Safety concerns for roadway users
 - Steep, blind curve
 - Road not aligned with bridge
 - Accident history

Purpose: What are we trying to do?

- Improve public safety on the bridge and adjacent roadway
- Address historic design deficiencies



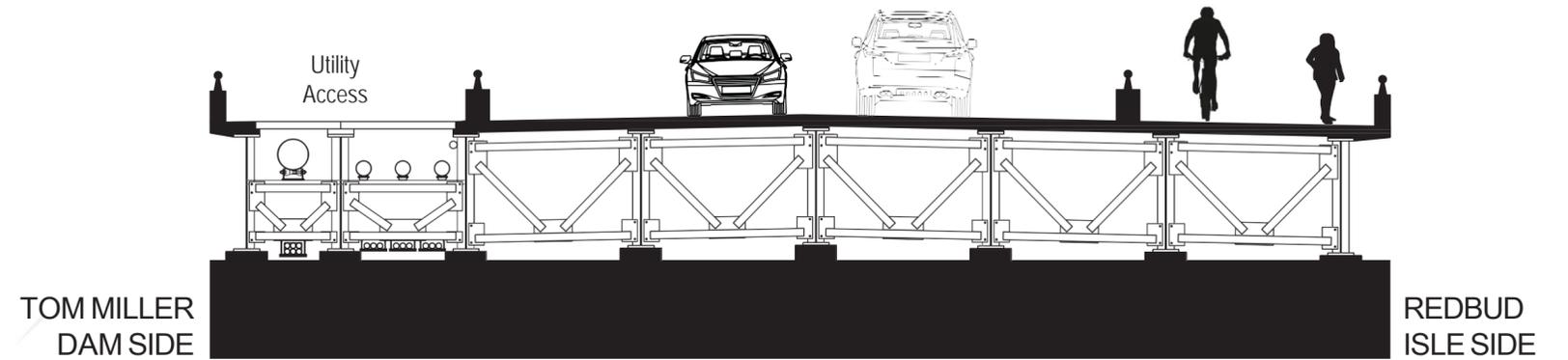
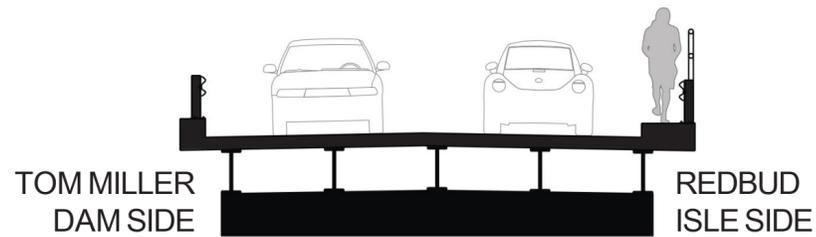
Project Objectives

- Improve safety
- Increase bridge elevation above 100-year flood
- Provide critical utility conveyance and access
- Avoid/mitigate limestone cliffs/ledge rock fall
- Maintain access to Redbud Isle during construction
- Keep traffic and utilities operational during construction
- Avoid, minimize, or mitigate environmental impacts



Redbud Trail Bridge Project

Cross Sections: Before and After



LOOKING EAST
EXISTING BRIDGE
SECTION



LOOKING EAST
PROPOSED BRIDGE
SECTION



Bridge Aesthetics - Monument Option





Bridge Aesthetics - Monument Option





Redbud Trail Bridge Project

