Barton Springs Pool Bypass Culvert Repairs

Parks & Recreation Board Update March 22, 2011





Update

- July/August 2010 Rock anchor tests were performed on lower segments of the bypass culvert.
- September 2010 Rock anchor test report submitted by AECOM summarizing results and possible repair solutions.
- October 2010 AECOM began work on preliminary engineering report.
- November/December 2010 AECOM submitted PER and addressed comments by COA staff.
- January/February 2011 Preliminary phase ended, negotiations on Design phase scope of work began; Joint Committee Review/Public Input
- March 2011 Design phase initiated.

Repair Concept Components

- Rock anchors
- Heavyweight concrete
- Tie-backs
- Adjacent structures
- Deck drains and weep holes





Repair Phases



Phase Components

- Phase I Segments 9 13
- Phase II Segments 5 8
- Phase III Segments 3 4
- Phase IV Segments 1 2
- Segments 1 13 Stabilize subgrade with gravel & grout as required
- Segments 1 5 Rock Anchors and new floor of conventional concrete
- Segments 6 8 Tie Backs and new floor of heavy concrete
- Segments 9 13 New floor of heavy concrete

Construction Cost and Schedule

Cost estimate – \$2.2 million (including \$500k contingency)

Schedule

- Option 1 6 to 8 months, with the pool closed 2 ¹/₂ months with a drawdown
- Option 2 9 to 10 months, no or very limited construction activity during times 5-9am
- Other options include closing pool completely, extended work days, etc.

What's Next?

Submittals to EV & Parks Boards Design Phase Submit to US Fish & Wildlife Service Permitting Phase **SOS** Amendment - Council Bid/Award Phase - Council Start Construction