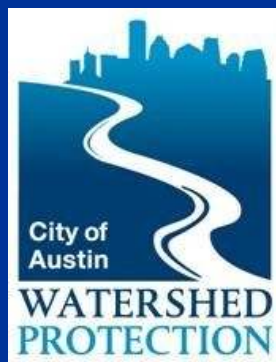


# Barton Springs Pool Bypass Culvert Repairs

Parks & Recreation Board

Update

May 24, 2011

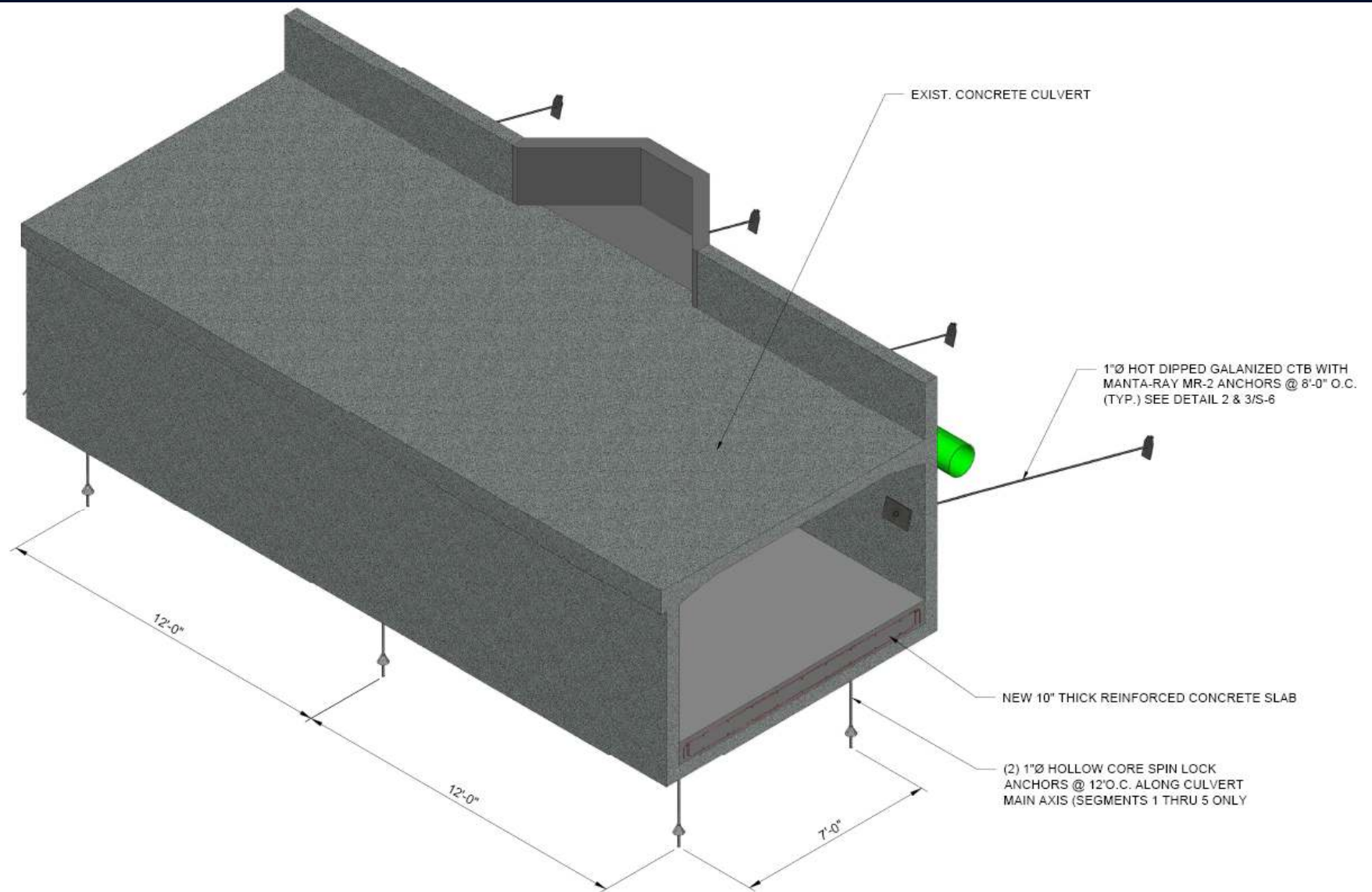


# Update

- 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.
- April/May 2011 – Design/Prepare Biological Assessment

# Repair Concept Components

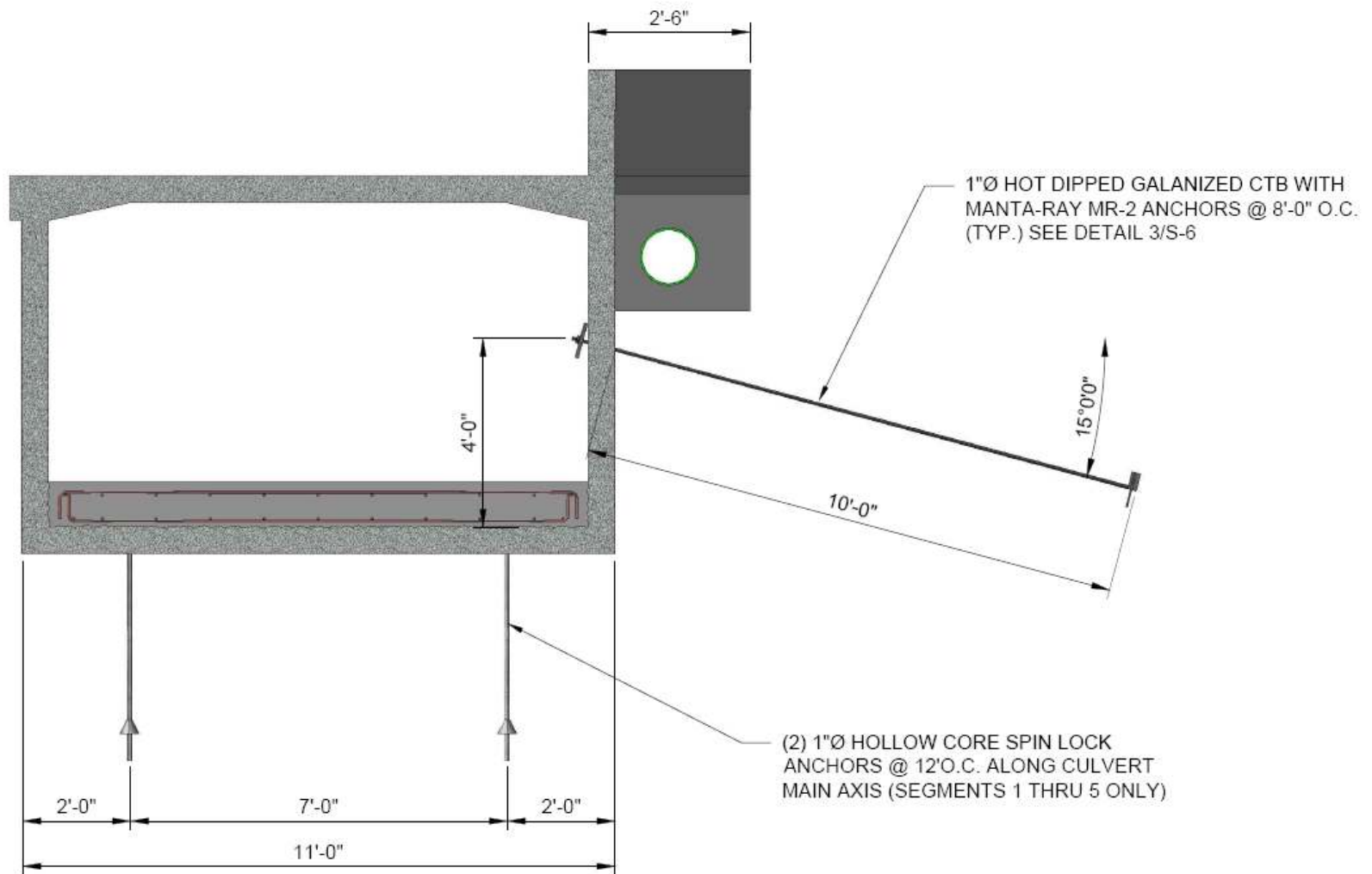
- Subgrade stabilization
- Rock anchors
- Conventional and Heavyweight concrete
- Tie-backs
- Adjacent structures
- Deck drains and weep holes



1

# CONCRETE BYPASS PERSPECTIVE

Scale: 3/8" = 1'-0"

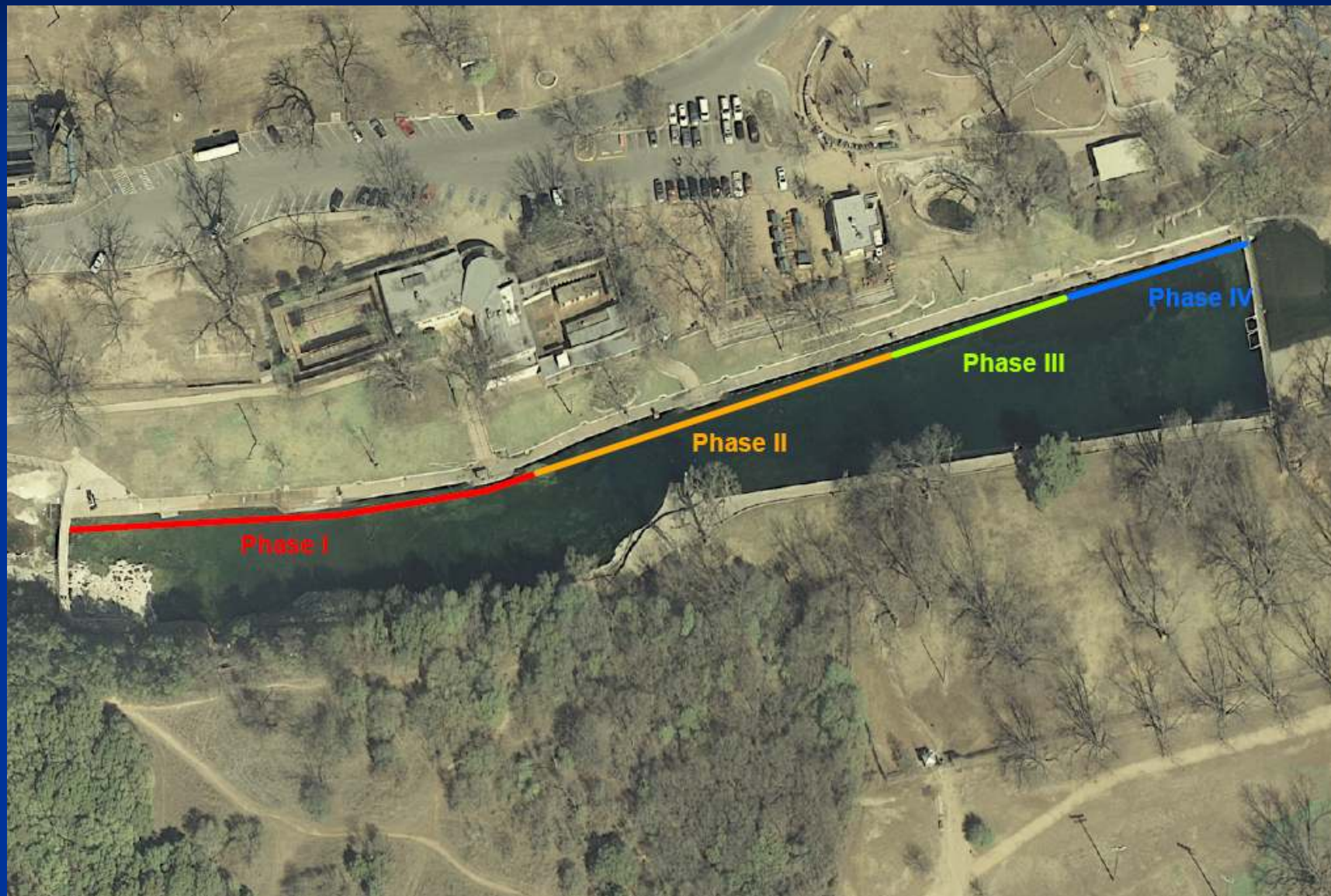


2

## TYPICAL SECTION THRU CONCRETE BYPASS

Scale: 3/8" = 1'-0"

# 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 **conventional** concrete

# Construction Cost and Schedule

- Cost estimate – \$2.2 million (including \$500k contingency)
- Schedule
  - Option 1 – 3 months, with the pool closed 2 months with a partial drawdown (extended work days)
  - Option 2 – 9 to 10 months, no or very limited construction activity during times 5-9am

# 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