Remedial Design Update
South River Phase 1A Banks

Clay Patmont

January 2016

ANCHOR QEA

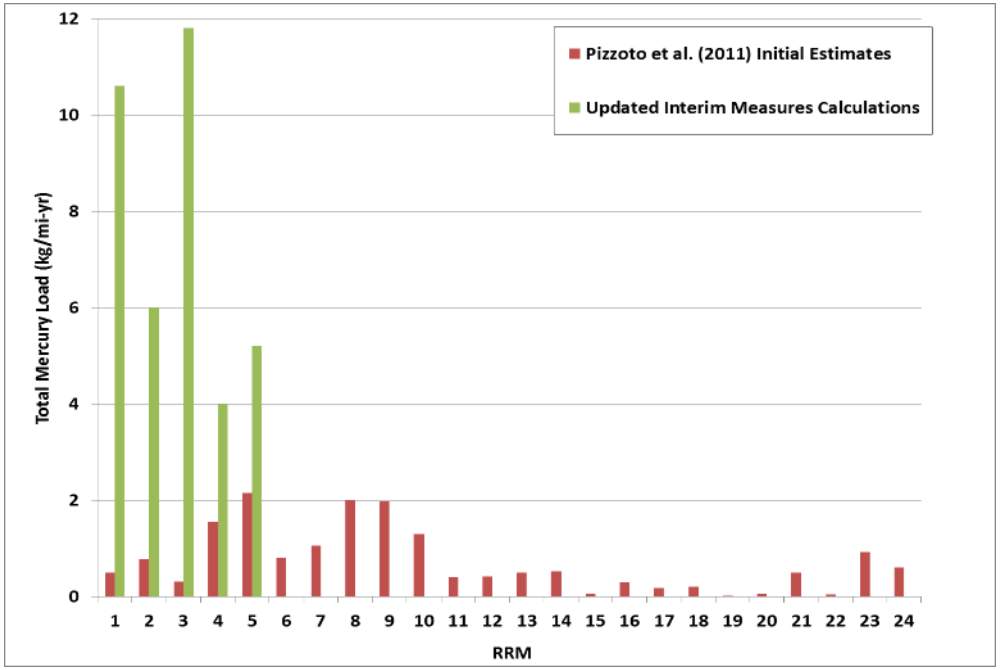
AECOM

DU PONT

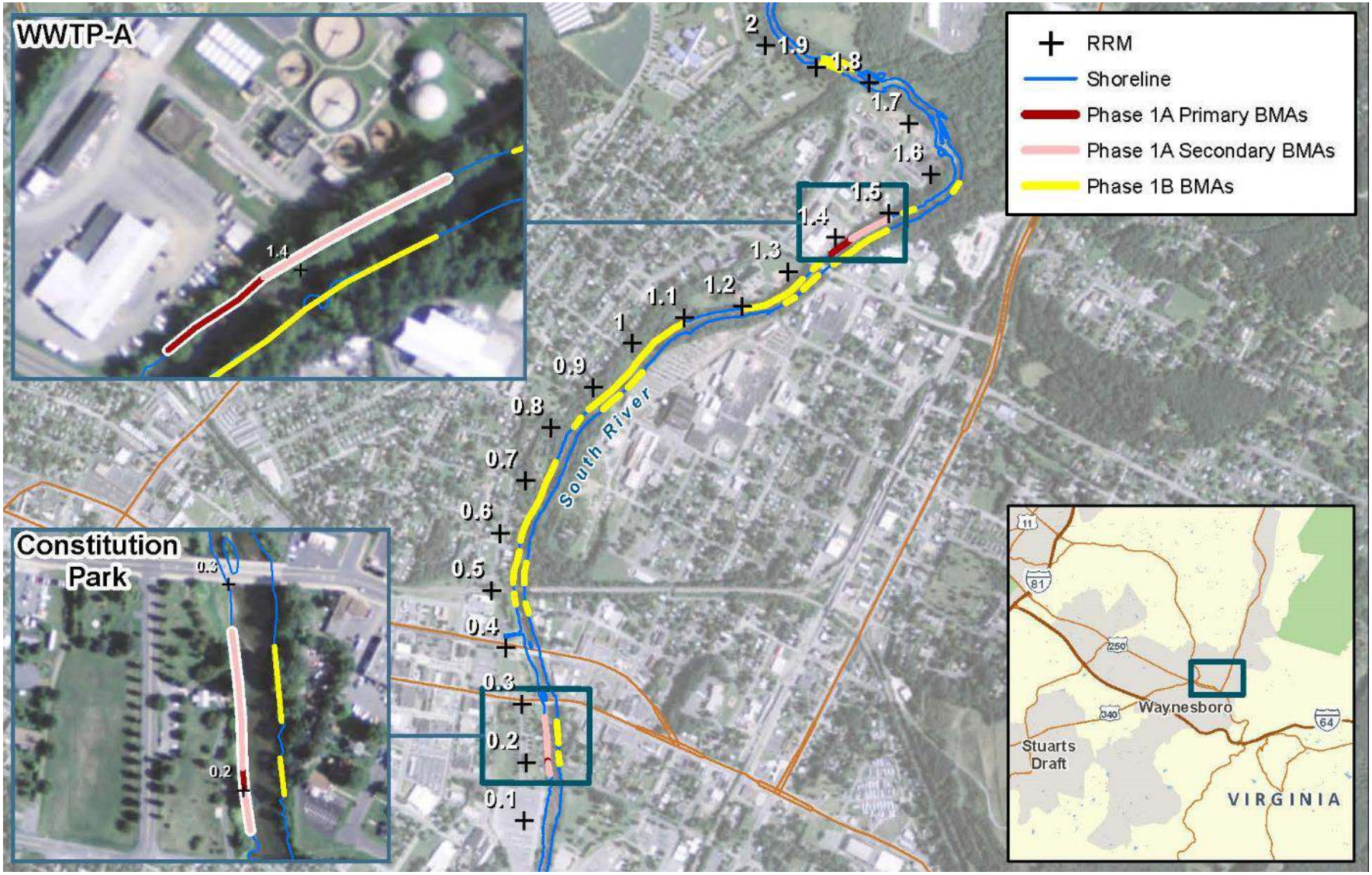
south river SCIENCE TEAM

Three Overarching South River Remedy Objectives

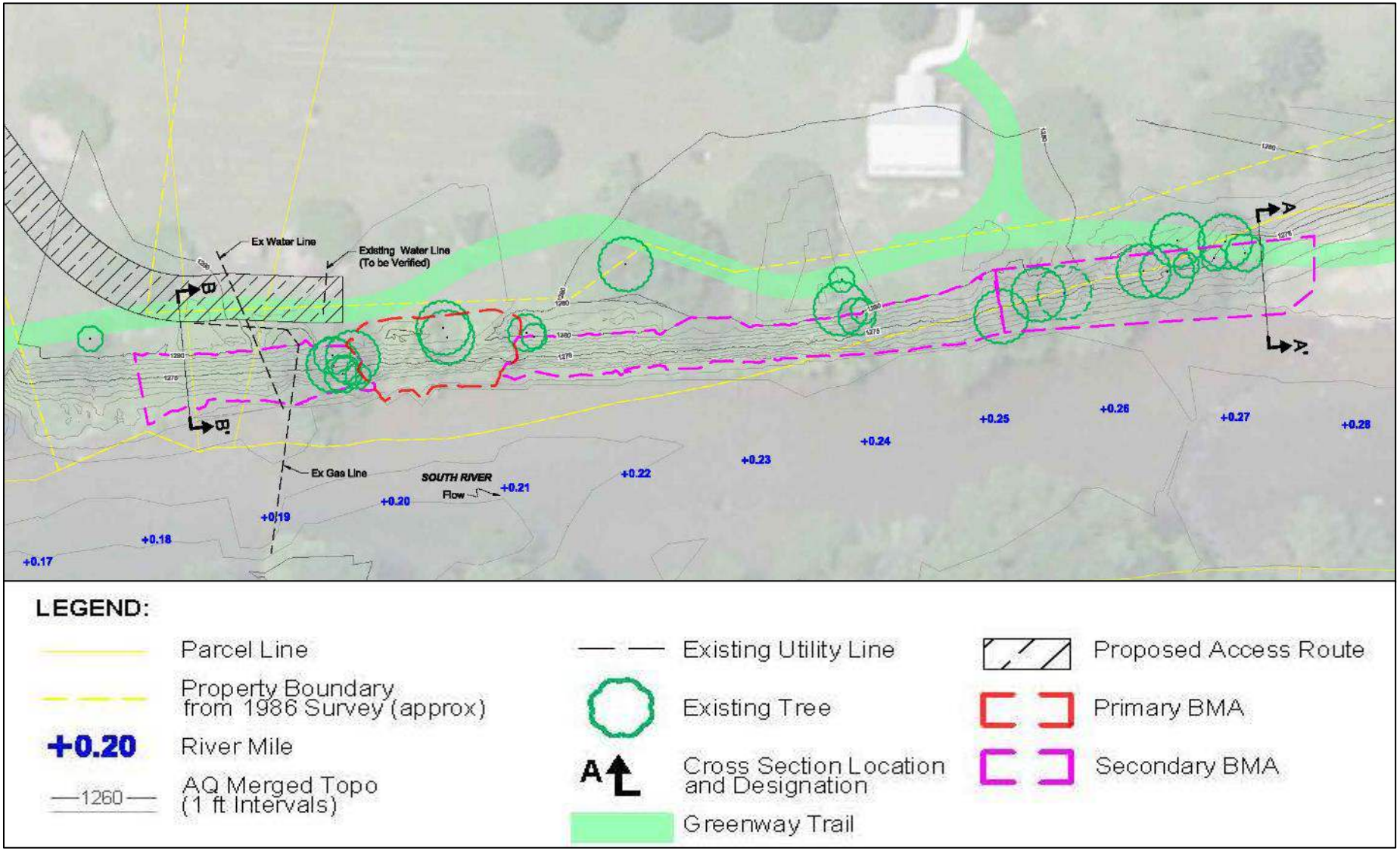
1. Reduce mercury loading
2. Maintain/improve habitat
3. Minimize disruption



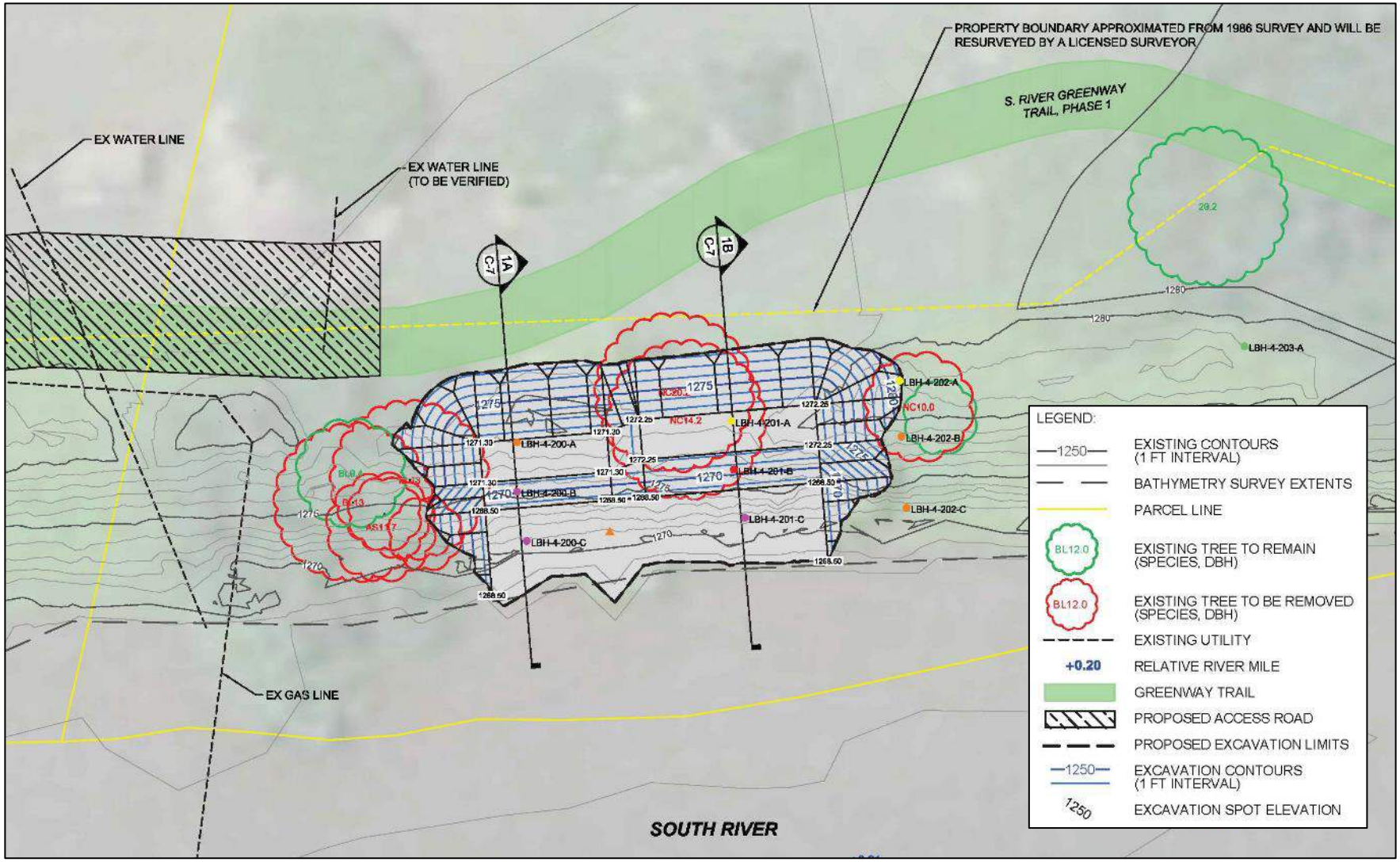
RRM 0 to 2 Bank Management Areas (BMAs)



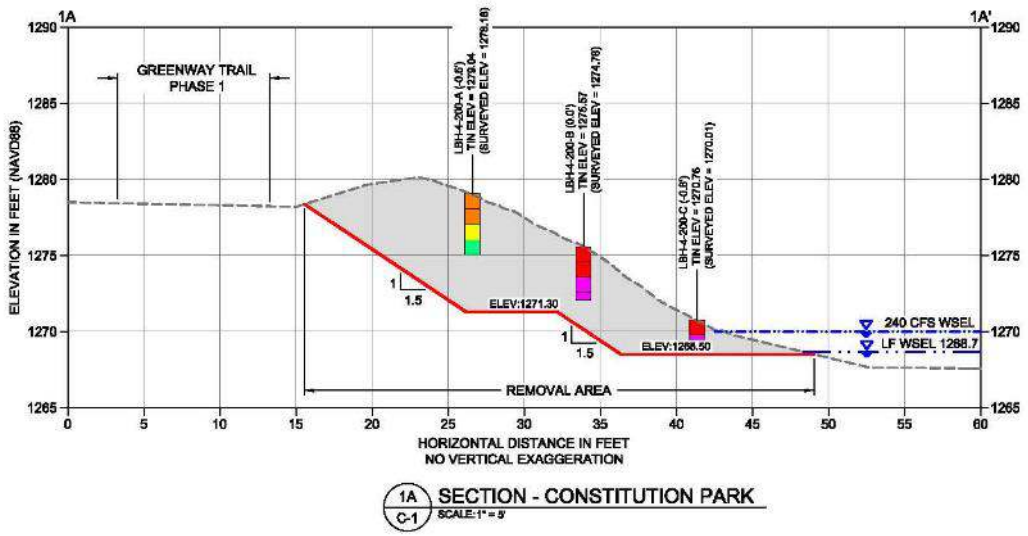
Constitution Park BMA Layout



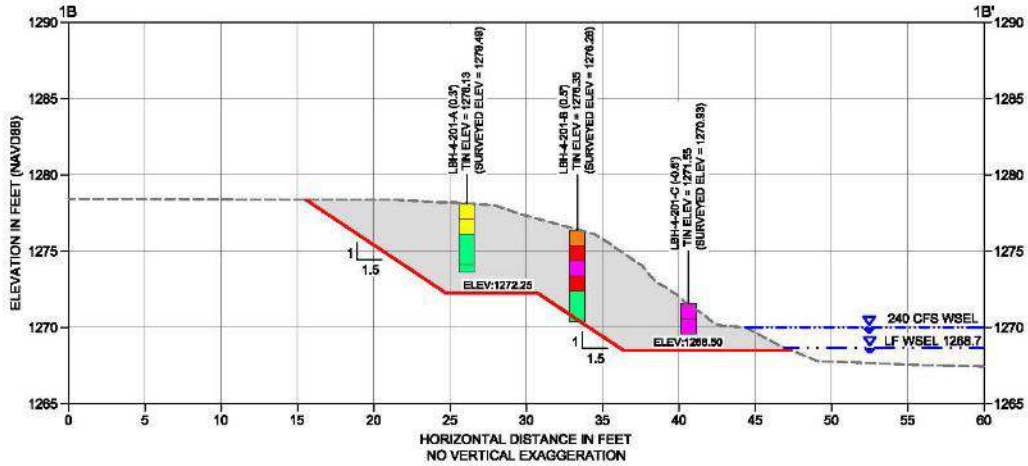
Constitution Park Primary BMA Design



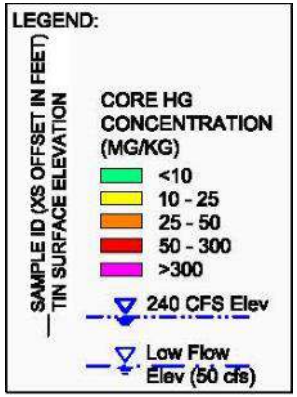
Constitution Park Primary BMA Removal Prism



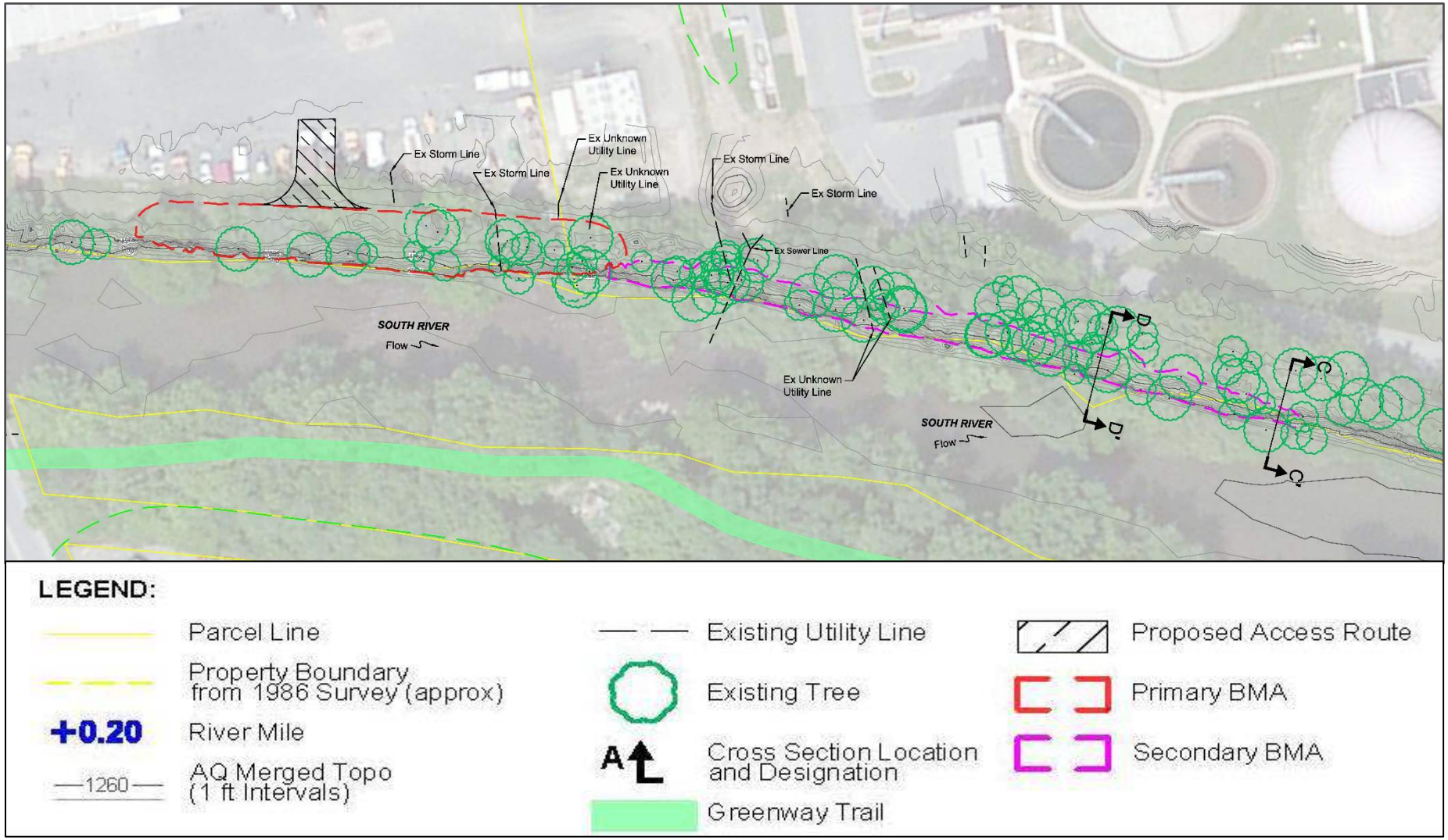
1A C-1 SECTION - CONSTITUTION PARK
SCALE:1" = 5'



1B C-1 SECTION - CONSTITUTION PARK
SCALE:1" = 5'



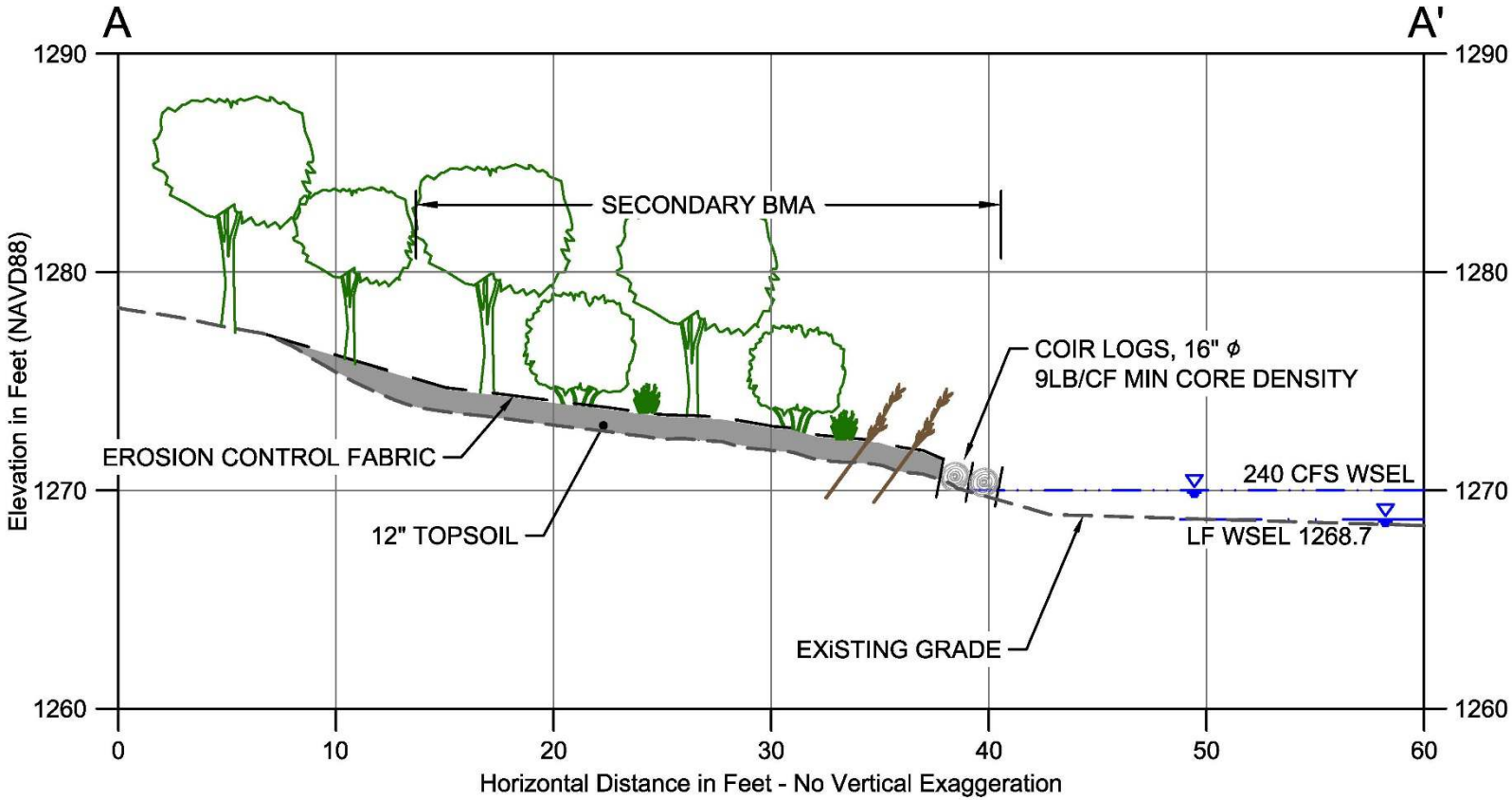
Wastewater Treatment Plant (WWTP) BMA Layout



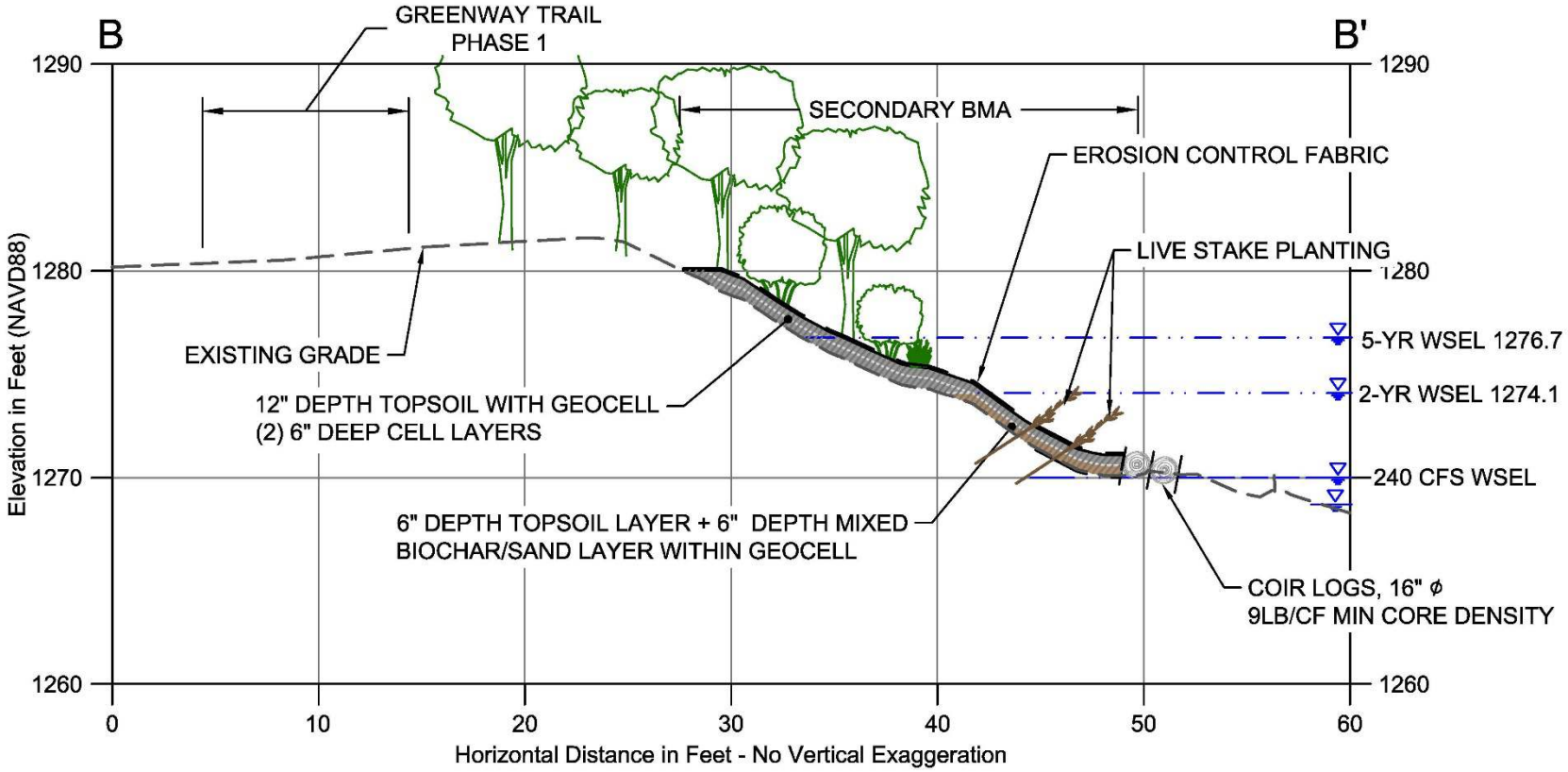
Secondary BMA Objectives

- Multiple design criteria
  - Reduce mercury loading
  - Protect existing large trees
  - Maintain/enhance habitat
  - Minimize excavation
  - Use proven/effective methods
  - Address stakeholder concerns
- Optimize and balance criteria
- Location-specific designs
  - Slopes determine design elements
  - Existing habitat quality varies

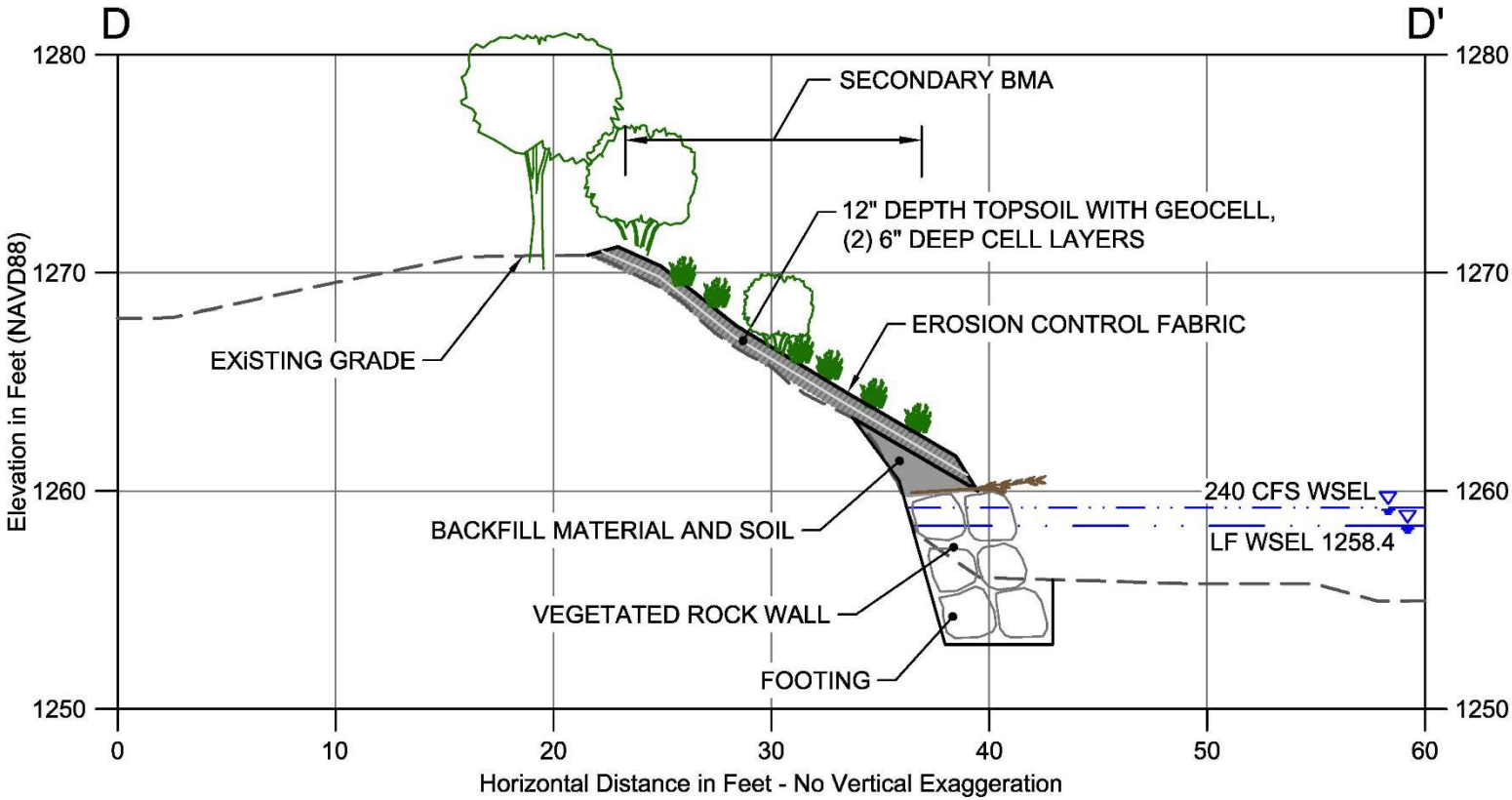
Typical Secondary BMA Design – Gradual Slopes



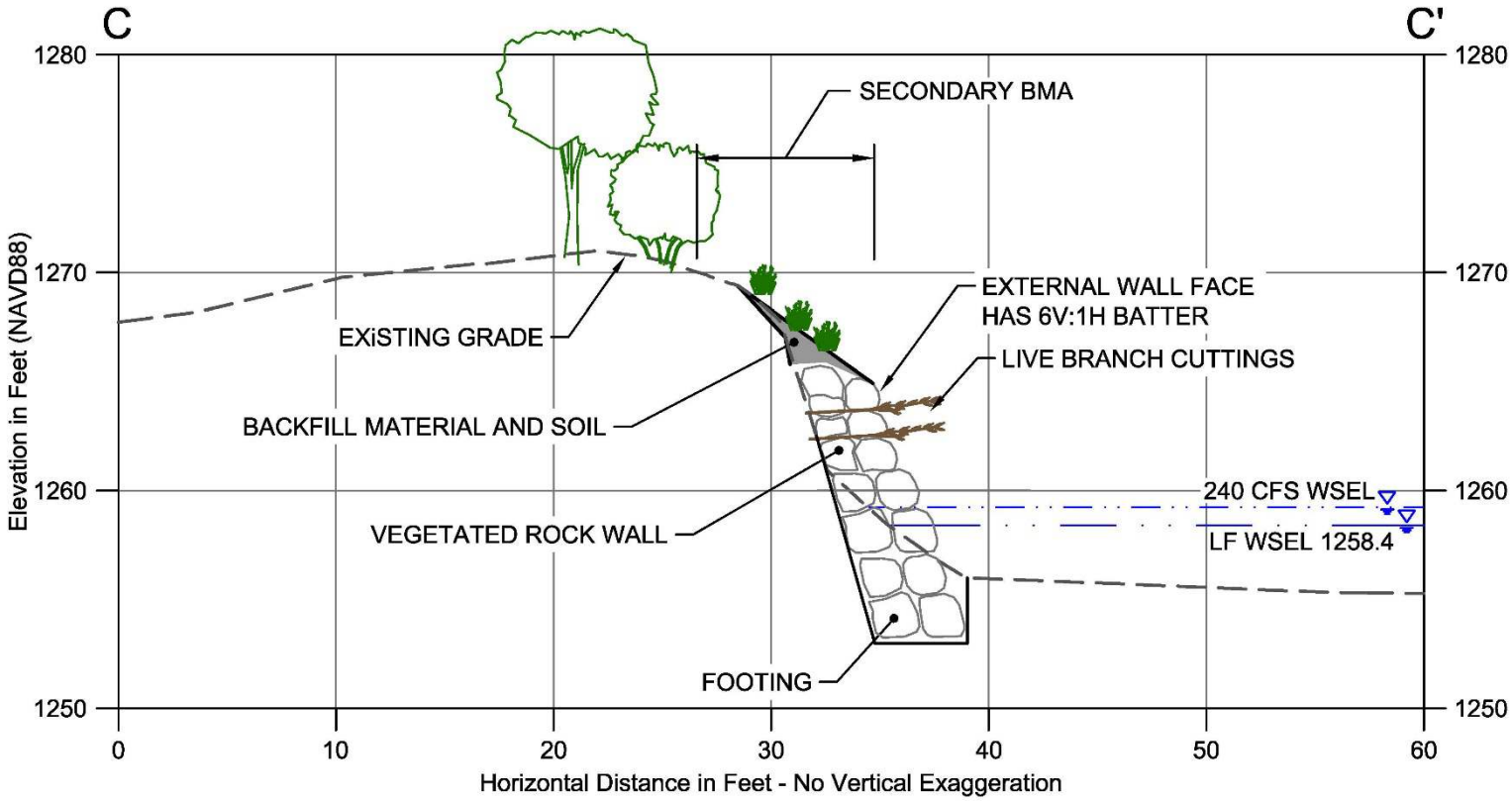
Typical Secondary BMA Design – Moderate Slopes



Typical Secondary BMA Design – Moderate Slopes with Steep Toes



Typical Secondary BMA Design – Steep Slopes



Schedule and Next Steps

- January/February – Resolution of City and VADEQ comments on draft Phase 1A preliminary design report
- Spring 2016 – Phase 1A final design, access agreements, and permits
- Summer 2016 – begin Phase 1A construction