Bassett Creek Main Stem Restoration – Regent Ave to Golden Valley Road

50% Design Plan Review

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Prepared for Bassett Creek Watershed Management Commission

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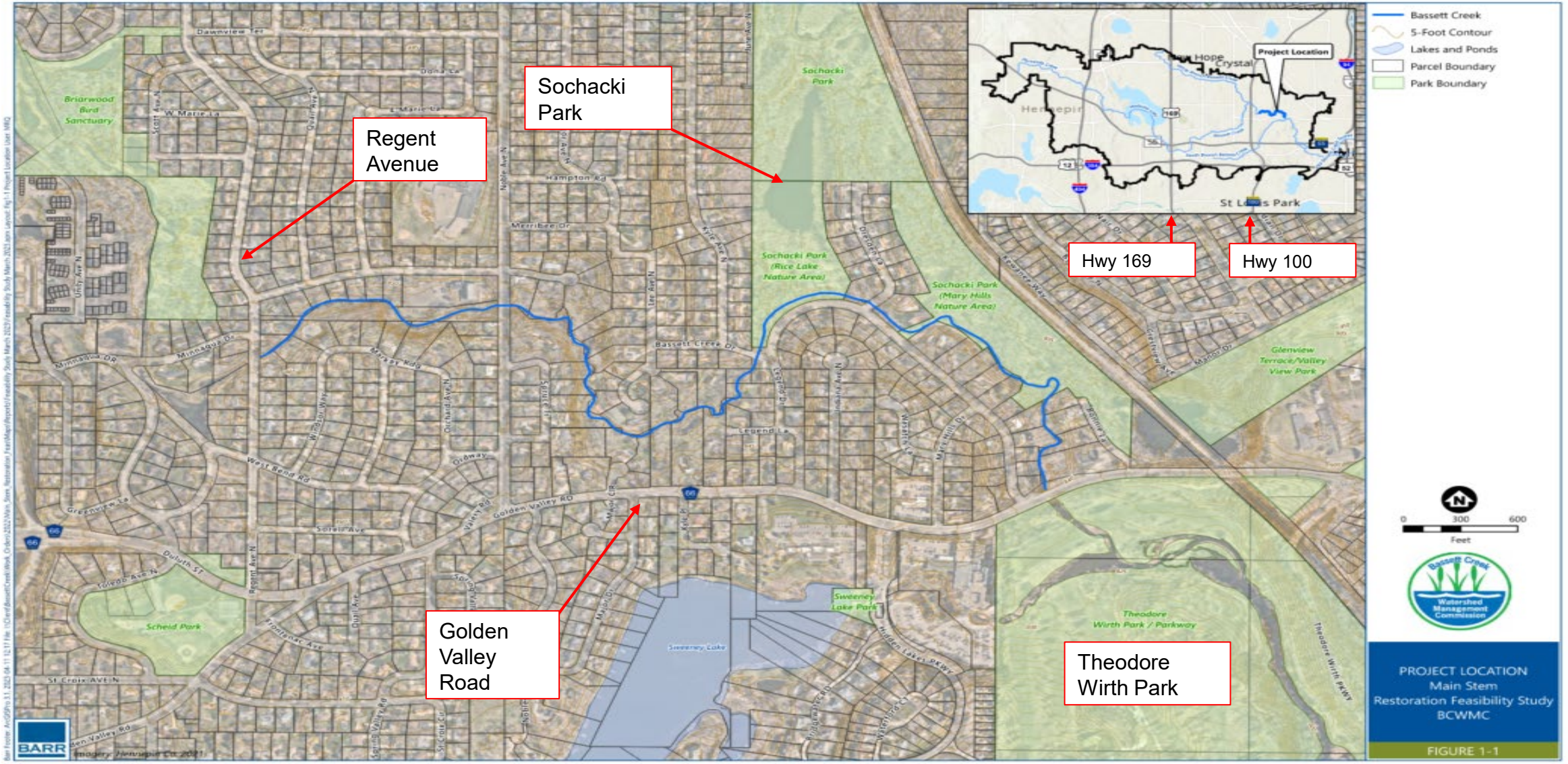
Bassett Creek Watershed Management Commission

Project Area



Project Costs

$2,241,000 estimated total project cost, based on feasibility study report

- $1,568,000 – estimated construction costs with contingency from feasibility study
- $673,000 – costs for feasibility study, administration, and engineering from feasibility study

Project Funding

- Up to $1,741,000 available to the Commission through a Hennepin County tax levy on watershed taxpayer
- Up to $200,000 from the Commission's Closed Project Account
- $200,000 from the City of Golden Valley's portion of the Commission's Channel Maintenance Fund
- Up to $100,000 from the City of Golden Valley's capital improvement program

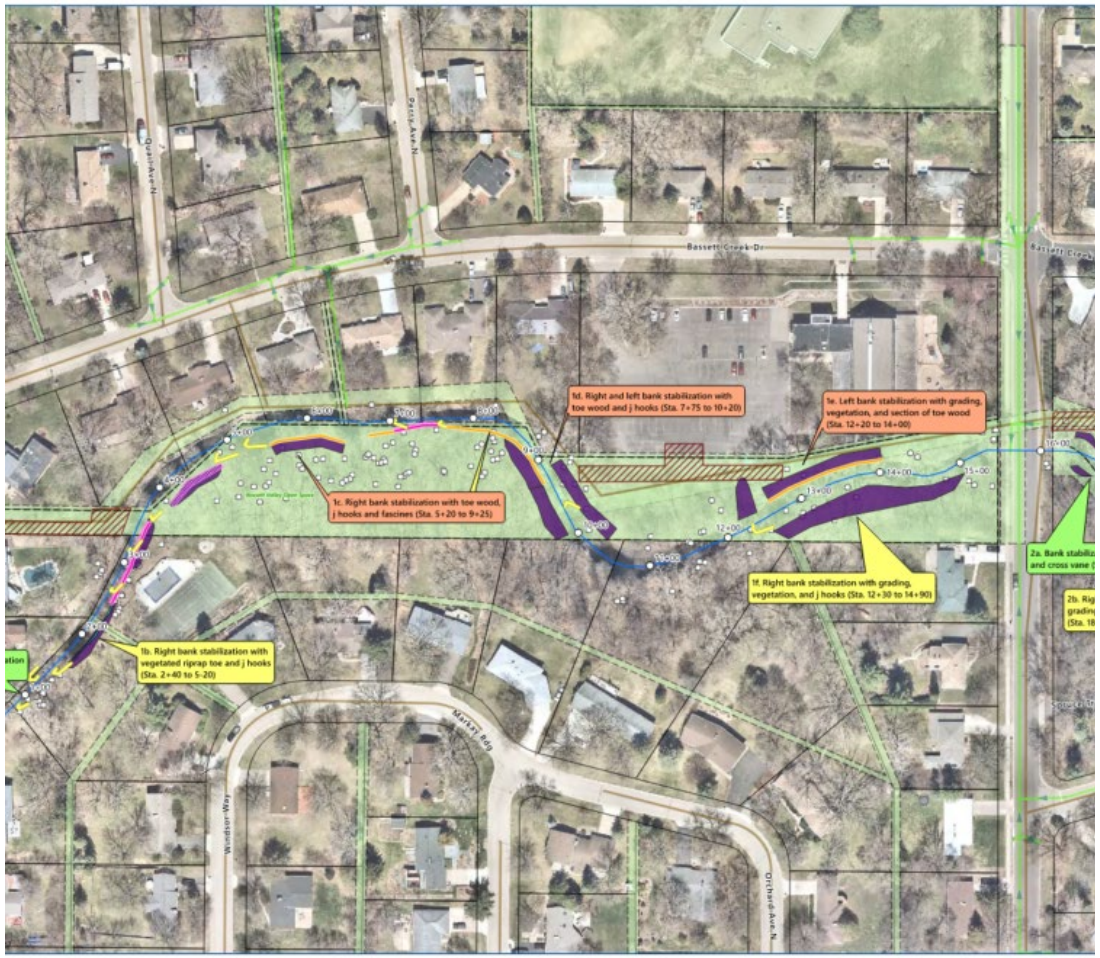
Project Background

August 18, 2022 - Commission approves proposal to perform feasibility study

June 15, 2023 - Commission approves pursuing feasibility Alternative 3

March 20, 2025 - Commission approves Commission Engineer's scope and budget for design and construction oversight

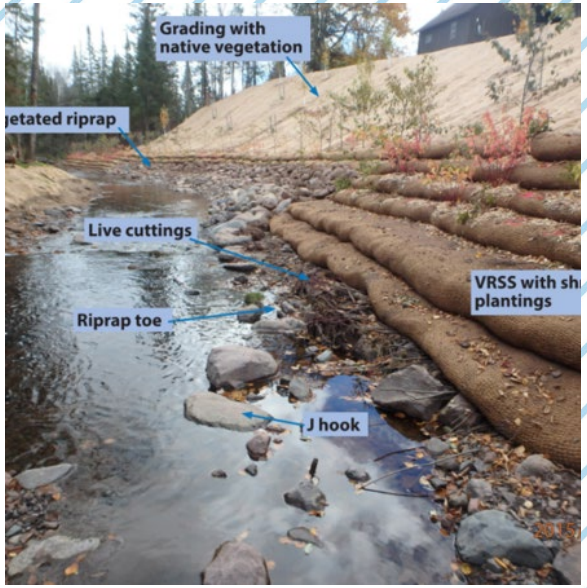
Feasibility Study Summary



- 7,000 linear feet with 79 unique locations for stabilization, grouped into 40 restoration areas
- Ranked restoration areas from high to low priority. Factors included:
  - Protection of infrastructure
  - Public access
  - Erosion potential
- Three alternatives
  - Alternative 1- high priority
  - Alternative 2- high and medium priority
  - Alternative 3- high, medium, and low priority
- Commission selected Alternative 3

Stream Restoration Methods in Alternative 3

- Re-grade channel banks where feasible, stabilize with vegetation and/or bioengineering methods, such as live stakes or fascines
- Stabilize streambank toe with hard armoring, root wads/toe wood, fascines, coir logs, or a combination of these methods
- Install J-hook vanes
- Install boulder cross vanes



Work Completed Since Feasibility Study

- Drone flight
  - Collected data above water level
- Site walk
  - Collected data below water level
  - Assessed erosion changes
- Site walk to assess construction access with City of Golden Valley Staff
- Public meeting June 5, 2025
  - 41 people signed in and roughly half left comment cards
  - Overall support for project

Work Completed Since Feasibility Study

- Existing conditions hydraulic (HEC-RAS) modeling
- Reviewed MPCA regulatory files on potential fuel oil release near project area
  - Concluded no additional record review or field investigation needed
- Began permitting conversations
  - US Army Corps of Engineers
  - Minnesota State Historic Preservation Office
  - Minnesota Pollution Control Agency
- 50% design plans and cost estimate

Feasibility Concepts to 50% Design Plans

- Retained feasibility study features for 50% design
  - Grading and vegetation
  - Protecting existing utility infrastructure
  - Variety of stream restoration methods
  - Enhancing protection near pipe outfalls and street crossings
  - Stabilizing concentrated flow area that carries parking lot runoff
- Updated feasibility study features for 50% design
  - Increasing vegetation management (buffers and removing invasive species)
  - Removing j-hooks in some areas
  - Extending stabilization areas
  - Modifying protection methods
  - Revising construction access routes

Opinion of Cost – 50% Design Plans

Description	Estimated Cost
Mobilization / Demobilization	$182,000
Traffic Control	$30,000
Erosion & Sediment Control	$91,000
Removals (clearing / grubbing, trees, excavation)	$202,000
Stream Restoration (grading, installing structures, etc.)	$958,000
Restoration and Vegetation Management [1]	$697,000
Estimated Construction Cost	**$2,160,000**
Construction Contingency (20%)	**$432,000**
Total Estimated Construction Cost	**$2,592,000**

[1] This work will be completed under a separate bid and contract and includes mobilization, demobilization, traffic control and other items in addition to restoration and vegetation management

Cost Comparison

Item	Feasibility Study	50% Plans
Construction Cost with Contingency	$1,568,700	$2,592,000
Length of Restoration	7,370 feet	8,585 feet
Annual Pollutant Removal	82.4 pounds total phosphorus 164,820 pounds total suspended solids	86.1 pounds total phosphorus 172,180 pounds total suspended solids
Tree Removals	88	57

- Construction cost increase since feasibility study
  - Construction pricing/bids from feasibility study over two years old
  - Increase in restoration length
  - Increase in vegetation management area

Length of Restoration Change

Purple represents proposed bank restoration in feasibility study

Blue represents proposed 50% design bank restoration extension

Options to Address Increased Costs

Reduce project footprint

Shrink vegetation management areas

Reduce or eliminate low priority areas

Eliminate properties that do not allow access

Increase project funding

Pursue grants

Additional levy for 2027 (2026 levy already set)

Schedule

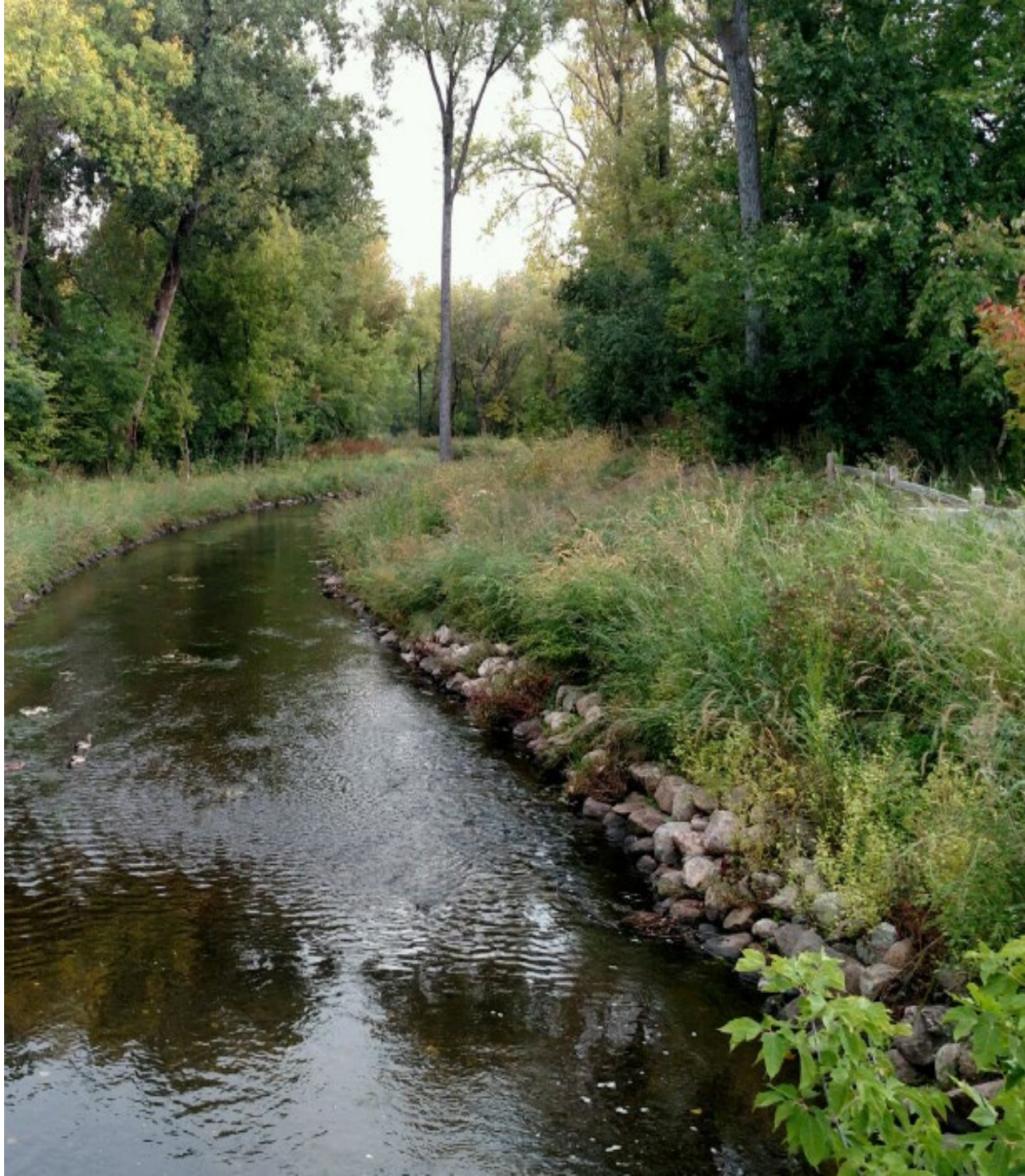
Tasks and milestones	Previous Tentative Schedule	Recommended Revised Schedule
Design – complete 50% plans for review and permitting	Summer 2025	July 2025 *[done]*
Permitting	Summer / Fall 2025	Now through January 2026
Public Meeting #2	Not set	September 2025
Design – complete 90% plans for review	Fall 2025	October 2025
Design – complete 100% plans for review	Fall 2025	November 2025
Bidding	Fall 2025	January/February 2026
Construction	Fall 2025 / Winter 2025/2026	Late Summer / Fall 2026
Restoration, Planting and Vegetation Establishment	2026-2028	2026-2030 (Spring 2027 planting)
Record construction drawings, final restoration, project closeout	Fall 2025 / Winter 2026	Late 2026 / Early 2027

Approval and Permits Required

- Compliance with the Minnesota Wetland Conservation Act (WCA)
- US Army Corps of Engineers (USACE) Permit – includes architectural and archaeological studies (Section 404 permit, Section 401 Certification, and Section 106)
- Minnesota Department of Natural Resources (MDNR) Public Waters Work Permit
- Minnesota Pollution Control Agency (MPCA) Construction Stormwater General Permit
- City of Golden Valley Right-of-Way Permit
- City of Golden Valley Stormwater Permit
- City of Golden Valley Buffer Requirements
- Bassett Creek Watershed Commission Floodplain Requirements

Next Steps

- If approved to move forward with design:
  - Continue to 90% designs and cost estimate, evaluate options for reducing project costs
  - Develop construction specifications
  - Public meeting #2
  - File permit applications
  - Acquire easements
  - Complete proposed conditions hydraulic (HEC-RAS) modeling



Recommendations

1. Consider approval of 50% design plans
2. Authorize Commission Engineer to continue design and bring 90% design plans to a future Commission meeting
3. Direct Commission Engineer to bring options for reducing construction costs or revising project budget when 90% plans are presented:
   - Re-prioritize eroding sites to consider eliminating low priority sites (and calculate cost savings)
   - Gather information (including maps and sizes) of areas where expanded vegetation management is desired by the city (and calculate cost savings if area is reduced)
   - Gather information on grant opportunities

Thank you
Discussion/Questions