BSC GROUP

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Nature-Based Solutions Implementation Resource Guide

Nature-based Solution (NbS): Beaver Deceiver/Promoter

Project Number per matrix: **21**

PREREQUISITES

- Coordinate with MVP.
- Approval of Town or City Conservation Commission

RECOMMENDED IMPLEMENTATION STEPS

- **Project Planning and Administration**
  - Assess potential erosion or habitat disruption impacts.
  - Natural features degrade more rapidly than metal structures and require a replenishment/replacement plan for this added maintenance.
  - Assess bordering threats such as proximity of water hazards, and roadways or parking.
  - Assess opportunities for coordinated habitat enhancement and education.
  - Ensure clear communication and understanding of maintenance personnel.

- **NbS Installation**
  - Identify all potential points within the target watershed and plan for where habitat pressure will spill over.
  - Identify and mark potential wildlife roadway crossings.

  - **Deceiver**
    - Temporary placement of aquatic erosion control measures.
    - Temporary installation of flow diversion measures/breach of existing beaver dam or other blockages.
    - Installation of beaver dam prevention measures.

    Maintenance
    - Follow up: general annual maintenance for constructed features.
    - Wildlife monitoring.

  - **Promoter**
    - Cutting of trees or adjustment of soil at strategic terrain points to slow stream flows.
    - Installation of soil stabilization and erosion controls.
    - Placement of solar/battery audio player for running water.

    Maintenance
    - Follow up: assessment of colonization, monitoring of seasonal flows.
    - Hedging (partial cut felling of trees for beaver support).

NATURE-BASED SOLUTION SPECS

- Typical project size: Single unit scaled per culvert

BUDGET ESTIMATE

- Typical project budget (order of magnitude): $3,000 - $8,000
- Use the BSC Group Nature-based Solutions budget tool to develop more detailed concept budgets

SCHEDULE ESTIMATE

- 4 days of construction per unit.