

# Section 8

## Implementation

### 8.1 Introduction

The successful implementation of the Master Plan recommendations will involve addressing multiple issues, including identifying physical constraints, avoiding downstream impacts, property owner and government agency coordination issues, maintenance, funding, and education programs. The following paragraphs provide a discussion of these various issues.

### 8.2 Capital Improvement Project Implementation

The Capital Improvement Projects outlined in Section 7 of this report are stream stability projects. The recommended Capital Improvement Projects were categorized using the Prioritization Methodology Report for Watershed Master Planning Projects, City of Lincoln, Nebraska, 2006 and each were given a project ranking based on their priority score. It is anticipated that the stream stability projects will be constructed in order of the priority established in Section 7.

### 8.3 Education Program

- **Water Quality Education** – A proactive education program focusing on water quality issues should be developed to educate homeowners associations and private facility owners. The program may include a water quality seminar to address the primary sources of stormwater pollution; the methods for pollution reduction and removal, including both nonstructural and structural BMPs; and the proposed new maintenance requirements.
- **Natural Channel Design Workshop** – A Natural Channel Design workshop could be held for engineers and developers focused on using bioengineering and geomorphic techniques for stream stabilization. The workshop would include proper design techniques for grade control structures and streambank stabilization materials. The workshop may also benefit land owners considering the private projects identified in the watershed study areas.

### 8.4 Project Funding

Traditional funding options for the Capital Improvement Projects include City stormwater bonds, funding from the Lower Platte South Natural Resources District, and County/State funding for stream stability measures where appropriate in association with County/State road improvement projects. NDOR may contribute to funding on certain projects.

### 8.5 Coordination Efforts

A coordinated effort between the City, NRD, County and the County needs to be established to guide the implementation of the Master Plan. For example, as roadways are upgraded, the channel design recommendations within the Master Plan associated with or in close proximity

to the particular stream crossing should be designed and constructed as part of the road upgrade. Some of the identified CIP's are partially located within state right of way with will require joint City, NRD and State (NDOR) project participation and coordination.

## 8.6 Additional Studies

Additional studies should be conducted to achieve the following objectives:

- **Flooding Analysis** – Update floodplain and floodway maps and prepare DFIRM mapping per FEMA guidelines. This includes channel structure surveying and developing detailed hydrologic and hydraulic modeling using public domain models.
- **Profile Analysis** – Perform a profile analysis of the main stem and tributaries to support the geomorphic findings and refine the current diagnosis of dominant process.
- **City Guidelines and Ordinance Recommendations** – Review current City Guidelines and Ordinances and develop recommendations and guidelines for future development of the watershed based on master plan hydrology, hydraulic, water quality, geomorphic analysis and additional studies findings.