

CITY OF LEBANON
Storm Drainage Master Plan

CHAPTER 1

1.0 GOALS AND OBJECTIVES

The goals and objectives of this master plan have been identified as follows:

- A. TO PROVIDE FOR THE ORDERLY PROVISION OF DRAINAGE SERVICE WITHIN THE CITY**
- (1) By identifying existing drainage facilities which will cause problems in the future as flows increase due to anticipated development in the watershed.
 - (2) By identifying drainageway alignments which should be reserved for future drainage facilities.
 - (3) By providing guidelines for storm drainage facility planning within development sites.
- B. TO PROVIDE FOR ADEQUATE PROTECTION FROM THE RISK OF FLOODING**
- (1) By identifying areas which experience unacceptably frequent flooding and by describing improvements to alleviate those conditions.
 - (2) By providing drainage system capacities commensurate with the risk of failure of those facilities due to exceeded capacity.
- C. TO OPTIMIZE THE EFFICIENCY OF EXISTING DRAINAGE FACILITIES**
- (1) By preserving significant existing flood storage areas.
 - (2) By preserving potential flood storage areas which can significantly reduce the cost of downstream drainage improvements.
- D. TO MINIMIZE THE COSTS OF NEEDED DRAINAGE IMPROVEMENTS**
- (1) By evaluating alternative methods for the resolution of drainage issues including allowance of surcharge in existing systems, construction of bypass conveyances and utilization of natural and man-made detention facilities.
 - (2) By scheduling drainage system improvements according to a phased approach where improvements are implemented only as needed.

- (3) By determining optimal floodplain elevation(s) within those portions of the Cox Creek drainageway.

E. TO PROVIDE FOR ADEQUATE STORM WATER QUALITY

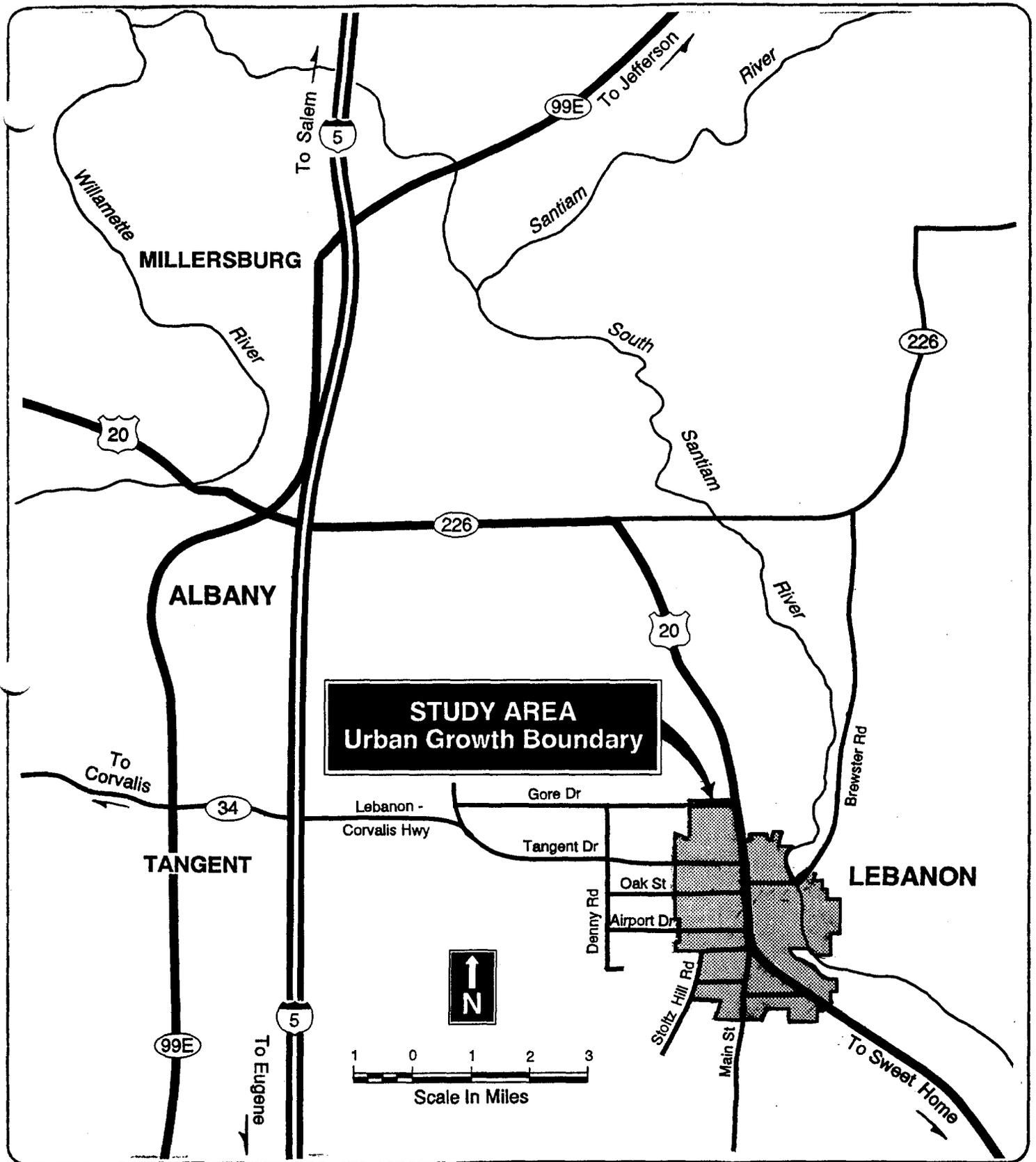
- (1) By considering probable future storm water quality regulations and by implementing measures which may reduce the long-term cost impact on the City and its residents.
- (2) By adopting practical and cost-effective methods for the enhancement of storm water quality as appropriate.
- (3) By adopting measures to minimize erosion within the watershed.
- (4) By retaining natural creek drainageways to the extent practical rather than replacing them with piped storm drain systems.

F. TO PROVIDE FOR THE CONSTRUCTION OF A "MAINTAINABLE" SYSTEM

- (1) By establishing appropriate standards for the construction of public drainage facilities.
- (2) By identifying drainage alignments which are outside of existing public rights-of-way and recommending alternatives.

G. TO PROVIDE DRAINAGE PLANNING GUIDELINES WHICH CAN BE EASILY ADMINISTERED

- (1) By providing clear capacity standards for drainage system improvements which are required for both on-site and public storm drainage improvements.
- (2) By providing clear construction standards for both on-site and public storm drainage improvements.
- (3) By providing clear descriptions of storm drainage improvements which are known to be necessary.
- (4) By estimating the total cost of drainage improvements required during the build-out of the Urban Growth Area and the anticipated phasing required for those improvements.



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VICINITY MAP

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FIGURE
1.1