

more costly, would cause enormous disruption in terms of construction, and would not provide the same level of protection as the individual flood control system. For these reasons, it was decided that sewer backups should not be specifically addressed in the SMP.

A similar analysis was done for overland flooding. The recommended projects comprise the core of the Stormwater Capital Improvement Plan. It was decided by the City Council to recommend the 100-year level of protection.

STORMWATER CAPITAL IMPROVEMENT PLAN (SCIP) AND PRIORITIZATION

A program of thirteen (13) projects were developed to alleviate flooding in the identified overland flooding areas. The projects primarily include the construction of new relief sewers and underground storage vaults in available open space areas. Those open space areas are generally Park District or school sites; in one location, underground storage on a private property has been proposed. Obviously, negotiation and coordination with these property owners would be required to allow construction of the projects. Two previously developed projects – Mayfield Estates and Northwest Park – were also included in the recommendations. Concept level costs were estimated for each project. The total cost of the SCIP was estimated to be \$106 million.

A prioritization of the projects was also completed to serve as the basis of an implementation plan. The projects were ranked based upon their flood control benefits in comparison to the project costs. Issues such as the ability to secure easements or property rights to construct the project were not considered, although these have the potential to change the order of implementation. The prioritized list of projects is as follows:

Table 1: Prioritization and Estimated Cost of Proposed Capital Improvement Projects

Rank	Project Name	Estimated Cost
1	Mayfield	\$2.5 Million
2	West Sibley Corridor	\$20 Million
3	Marvin Parkway	\$2.3 Million
4	Northwest Park	\$15.7 Million
5	East Sibley Corridor	\$39.9 Million
6	Northeast Park	\$8.8 Million
7	Crescent Avenue	\$12.3 Million
8	Southwest Park	\$4.5 Million
TOTAL		\$106 Million